| 1. |             | In a dairy processing plant, closed containers like tanks and vats<br>are easily and effectively sanitized through |              |                              |  |  |  |  |  |  |
|----|-------------|--|--------------|------------------------------|--|--|--|--|--|--|
|    | (A)         | (A) Hot water immersion  |              |                              |  |  |  |  |  |  |
|    | (B)         |  |              |                              |  |  |  |  |  |  |
|    | (C)         | Togging by chemical sanitizer  | $\mathbf{s}$ |                              |  |  |  |  |  |  |
|    | (D)         | Brush application  |              |                              |  |  |  |  |  |  |
|    | (E)         | Answer not known   |              |                              |  |  |  |  |  |  |
| 2. | The         | Gerber's acid is used to estimate  | te           |                              |  |  |  |  |  |  |
|    | (A)         | Total solids   | (B)          | Fat percentage               |  |  |  |  |  |  |
|    | (C)         | Mineral content  | (D)          | Water adulteration           |  |  |  |  |  |  |
|    | (E)         | Answer not known   |              |                              |  |  |  |  |  |  |
| 3. | Pres        | Presence of extraneous water in milk is detected by  |              |                              |  |  |  |  |  |  |
|    | (1)         | Lowered fat percentage   |              |                              |  |  |  |  |  |  |
|    | (2)         | 2) Lowered density of milk at 27°C   |              |                              |  |  |  |  |  |  |
|    | (3)         | Lowered percentage of solids:  | not f        | at                           |  |  |  |  |  |  |
|    | (4)         | Freezing point depression  |              |                              |  |  |  |  |  |  |
|    | (A)         | (1), (2) and (3) are correct   | (B)          | (2), (3) and (4) are correct |  |  |  |  |  |  |
|    | (C)         | (1), (2), (3) and (4) are correct  |              |                              |  |  |  |  |  |  |
|    | (E)         | Answer not known   |              |                              |  |  |  |  |  |  |
| 4. | The<br>mill | Rosalic acid method is used fo   | r th         | e detection of in            |  |  |  |  |  |  |
|    | (A)         | Pond water   | (B)          | Neutralizers                 |  |  |  |  |  |  |
|    | (C)         | Hypochlorites  | (D)          | Chloramines                  |  |  |  |  |  |  |
|    | (E)         | Answer not known   |              |                              |  |  |  |  |  |  |
|    |             | 9  |              | 206 Animal Hughandry and     |  |  |  |  |  |  |

| 5. | Gra<br>proc | water   | from                          | dairy |                        |         |     |  |  |  |
|----|-------------|---|-------------------------------|-------|------------------------|---------|-----|--|--|--|
|    | (A)         | Total solids                                      | (                             | B)    | BOD                    |         |     |  |  |  |
|    | (C)         | COD   | (                             | (D)   | Fat, oil               | and gre | ase |  |  |  |
|    | (E)         | Answer not know                                   | wn                            |       |                        |         |     |  |  |  |
| 6. | May         | onnaise is a                                      |                               |       |                        |         |     |  |  |  |
|    | (A)         | (A) Egg nog                                       |                               |       |                        |         |     |  |  |  |
|    | (B)         | (B) Semi-solid egg yolk based product             |                               |       |                        |         |     |  |  |  |
|    | (C)         | (C) Pickled egg                                   |                               |       |                        |         |     |  |  |  |
|    | (D)         | (D) Albumen ring                                  |                               |       |                        |         |     |  |  |  |
|    | (E)         | Answer not know                                   | wn                            |       |                        |         |     |  |  |  |
| 7. |             | per Food Safet<br>vegetarian produ<br>perature of | y and Stand<br>cts must be re |       |                        |         | _   |  |  |  |
|    | (A)         | $70^{\circ}\mathrm{C}$                            | (                             | B)    | 72°C                   |         |     |  |  |  |
|    | (C)         | $74^{\circ}\mathrm{C}$                            | (                             | D)    | $76^{\circ}\mathrm{C}$ |         |     |  |  |  |
|    | (E)         | Answer not know                                   | wn                            |       |                        |         |     |  |  |  |

| 8.  | As per the Food Safety and Standards (Packaging and Labelling)<br>Regulation, 2011, every package of "Non Vegetarian" food shall bear<br>a symbol |   |                                     |  |  |  |  |  |
|-----|---|---|-------------------------------------|--|--|--|--|--|
|     | (A)   | Brown colour filled circle having sides             | , inside square with brown outline  |  |  |  |  |  |
|     | (B)   | Brown colour filled circl having sides              | e inside star with brown outline    |  |  |  |  |  |
|     | (C)   | Brown color filled circle in sides                  | side square with red outline having |  |  |  |  |  |
|     | (D)   | Brown color filled circle is sides                  | inside star with red outline having |  |  |  |  |  |
|     | (E)   | Answer not known                                    |                                     |  |  |  |  |  |
| 9.  |   | is examined for cysticercus bovis during postmortem |                                     |  |  |  |  |  |
|     | inspection.   |   |                                     |  |  |  |  |  |
|     | (A)   | Triceps brachii                                     | (B) Pectoral                        |  |  |  |  |  |
|     | (C)   | Lung  | (D) Spleen                          |  |  |  |  |  |
|     | (E)   | Answer not known                                    |                                     |  |  |  |  |  |
| 10. | Emergency slaughter is done in animals having   |   |                                     |  |  |  |  |  |
|     | (A)   | Acute pain  | (B) Chronic illness                 |  |  |  |  |  |
|     | (C)   | Anthrax   | (D) Black leg                       |  |  |  |  |  |
|     | (E)   | Answer not known                                    |                                     |  |  |  |  |  |
| 11. | Dar   | k firm dry meat normally oc                         | curs in                             |  |  |  |  |  |
|     | (A)   | Cattle  | (B) Pig                             |  |  |  |  |  |
|     | (C)   | Sheep   | (D) Goat                            |  |  |  |  |  |
|     | (E)   | Answer not known                                    |                                     |  |  |  |  |  |

| 12. |   | ch of the following lized milk? | statement(    | (s)     | are      | true     | with    | respect   | to |  |
|-----|---|---------------------------------|---------------|---------|----------|----------|---------|-----------|----|--|
|     | (I)   | Remarkable keeping quality      |               |         |          |          |         |           |    |  |
|     | (II)  | Useful for feeding infants      |               |         |          |          |         |           |    |  |
|     | (III)                                       | Possess 'rich' flavour          | <b>1</b><br>- |         |          |          |         |           |    |  |
|     | (IV)  | Devoid of vitamin 'C            | ,             |         |          |          |         |           |    |  |
|     | (A)   | (I), (II), (III)                | (]            | 3)      | (I), (I) | II), (IV | V)      |           |    |  |
|     | (C)   | (I), (III), (IV)                | (]            | )<br>(C | (II),    | (III), ( | (IV)    |           |    |  |
|     | (E)   | Answer not known                |               |         |          |          |         |           |    |  |
| 13. | Best quality mozzarella cheese is made from |                                 |               |         |          |          |         |           |    |  |
|     | (A)   | Cow milk                        | (]            | B)      | Goat     | milk     |         |           |    |  |
|     | (C)   | Buffalo milk                    | (]            | D)      | Shee     | p mil    | k       |           |    |  |
|     | (E)   | Answer not known                |               |         |          |          |         |           |    |  |
| 14. | Whi   | ch of the following sta         | tements are   | tı      | rue al   | oout g   | hee?    |           |    |  |
|     | (i)   | Ghee is a fat rich da           | iry product   |         |          |          |         |           |    |  |
|     | (ii)  | Ghee is prepared fro            | m cream (oı   | ·) l    | butte    | c        |         |           |    |  |
|     | (iii)                                       | Granulation in gheestearic acid | e is due to   | tł      | ne pr    | esence   | e of pa | almitic a | nd |  |
|     | (A)   | (i) and (ii) only               | (]            | B)      | (i) aı   | nd (iii) | only    |           |    |  |
|     | (C)   | (i), (ii) and (iii)             | (]            | D)      | (ii) a   | nd (iii  | i) only |           |    |  |
|     | (E)   | Answer not known                |               |         |          |          |         |           |    |  |

| 15. Choose the average boiling point of buffalo milk |      |   |      | alo milk                     |  |  |  |  |
|--|------|---|------|------------------------------|--|--|--|--|
|  | (A)  | 101°C   |      | 100.5°C                      |  |  |  |  |
|  | (C)  | 101.5°C   | ` ′  | 100°C                        |  |  |  |  |
|  | (E)  | Answer not known                                | ` '  |                              |  |  |  |  |
| 16.  |      | n which animal's submucosa l<br>ut is prepared? | ayer | of the intestine, the suture |  |  |  |  |
|  | (A)  | Cattle  | (B)  | Sheep                        |  |  |  |  |
|  | (C)  | Horse   | (D)  | Pig                          |  |  |  |  |
|  | (E)  | Answer not known                                |      |                              |  |  |  |  |
| 17.  | Curi | ing of meat is done by adding                   |      |                              |  |  |  |  |
|  | (A)  | Salt, Cream and butter                          |      |                              |  |  |  |  |
|  | (B)  | Salt, Sugar and Nitrate (or) Nitrite            |      |                              |  |  |  |  |
|  | (C)  | Salt, Glycerol and Ethyl galla                  | te   |                              |  |  |  |  |
|  | (D)  | Salt, Potassium chloride and S                  | Sorb | ate                          |  |  |  |  |
|  | (E)  | Answer not known                                |      |                              |  |  |  |  |
| 18.  | Duri | ing, tanning operation, bating e                | nzyr | nes act on the               |  |  |  |  |
|  | (A)  | Collagen  | (B)  | Epidermis                    |  |  |  |  |
|  | (C)  | Tendons   | (D)  | Fat                          |  |  |  |  |
|  | (E)  | Answer not known                                |      |                              |  |  |  |  |
| 19.  | Chol | lic acid is obtained from                       |      |                              |  |  |  |  |
|  | (A)  | Adrenal gland                                   | (B)  | Bile                         |  |  |  |  |
|  | (C)  | Pancreas  | (D)  | Liver                        |  |  |  |  |
|  | (E)  | Answer not known                                |      |                              |  |  |  |  |
|  |      |   |      |                              |  |  |  |  |

| 20. | The | blue discolouration in milk is   | cause  | d by the associative action of      |  |  |  |  |  |
|-----|-----|--|--------|-------------------------------------|--|--|--|--|--|
|     | (A) | Streptococcus lactis and leuconostoc spp.                                    |        |                                     |  |  |  |  |  |
|     | (B) | Streptococcus lactis and pseudomonas syncyanea                               |        |                                     |  |  |  |  |  |
|     | (C) | Candida pseudotropicalis and   | d leuc | onostoc spp.                        |  |  |  |  |  |
|     | (D) | Torulopsis sphaerica and car   | ndida  | pseudotropicalis                    |  |  |  |  |  |
|     | (E) | Answer not known   |        |                                     |  |  |  |  |  |
| 21. | Whi | ch of the following is incorrect   | ly pai | red?                                |  |  |  |  |  |
|     | (1) | Fruity flavor of milk  | _      | Pseudomonas fragi                   |  |  |  |  |  |
|     | (2) | Musty potato flavor of milk  | _      | Pseudomonas taetrolens              |  |  |  |  |  |
|     | (3) | Malty flavor of raw milk   | _      | Streptococcus lactis var maltigenes |  |  |  |  |  |
|     | (4) | Blue discoloration in milk   | _      | Candida spp                         |  |  |  |  |  |
|     | (A) | (1), (2) and (3)   | (B)    | (2) and (3)                         |  |  |  |  |  |
|     | (C) | (1) and (2)  | (D)    | (4) only                            |  |  |  |  |  |
|     | (E) | Answer not known   |        |                                     |  |  |  |  |  |
| 22. | add | per food safety and standards (<br>itives) regulations, 2011 the t<br>exceed |        | _                                   |  |  |  |  |  |
|     | (A) | 300 ppm  | (B)    | 500 ppm                             |  |  |  |  |  |
|     | (C) | 700 ppm  | (D)    | 900 ppm                             |  |  |  |  |  |
|     | (E) | Answer not known   |        |                                     |  |  |  |  |  |
|     |     |  |        |                                     |  |  |  |  |  |

| 23. | The  | acidity at which the milk so<br>———— (as Lactic acid)               | ours   | is   | usually i   | in the range o | ıf           |
|-----|------|---|--------|------|-------------|----------------|--------------|
|     | (A)  | 0.14 to 0.16%   | (B)    | 0.3  | 20 to 0.259 | %              |              |
|     | (C)  | 0.30 to 0.45%   | (D)    | 0.   | 50 to 0.659 | %              |              |
|     | (E)  | Answer not known  |        |      |             |                |              |
| 24. | As p | oer BIS standard, Ghee should o                                     | onta   | iin  |             | —— % fat       |              |
|     | (A)  | 60%   | (B)    | 70   | )%          |                |              |
|     | (C)  | 80%   | (D)    | 98   | 0.5%        |                |              |
|     | (E)  | Answer not known  |        |      |             |                |              |
| 25. |      | Fadyean's reaction blue rods in<br>tained smear is characteristic o |        | ort  | chain wit   | h pink capsule | $\mathbf{s}$ |
|     | (A)  | Anthrax   | (B)    | Те   | etanus      |                |              |
|     | (C)  | Leptospirosis   | (D)    | Τι   | aberculosis | $\mathbf{s}$   |              |
|     | (E)  | Answer not known  |        |      |             |                |              |
| 26. | Avia | an influenza (or) Bird flu is caus                                  | sed b  | У    |             |                |              |
|     | (A)  | H5N1  | (B)    | Н    | 5N2         |                |              |
|     | (C)  | H5N3  | (D)    | Н    | 5N4         |                |              |
|     | (E)  | Answer not known  |        |      |             |                |              |
| 27. | Azu  | rophils is a unique type of blood                                   | l cell | s ic | dentified o | only in        |              |
|     | (A)  | Reptiles  | (B)    | Aı   | mphibians   | 3              |              |
|     | (C)  | Birds   | ` ′    |      | ammals      |                |              |
|     | (E)  | Answer not known  | ` /    |      |             |                |              |
|     | . ,  |   |        |      |             |                |              |

| 28. | Hook worm vaccine contains |  |                                 |  |  |  |  |  |
|-----|----------------------------|--|---------------------------------|--|--|--|--|--|
|     | (A)                        | X ray irradiated worms                                     |                                 |  |  |  |  |  |
|     | (B)                        | X ray irradiated macroschizont                             |                                 |  |  |  |  |  |
|     | (C)                        | X ray irradiated endosperm                                 |                                 |  |  |  |  |  |
|     | (D)                        | (D) X ray irradiated larvae                                |                                 |  |  |  |  |  |
|     | (E)                        | Answer not known   |                                 |  |  |  |  |  |
| 29. | Dog                        | s zoonotic disease causing reti                            | nal damage in humans is         |  |  |  |  |  |
|     | (A)                        | Trichinosis  | (B) Toxoplasmosis               |  |  |  |  |  |
|     | (C)                        | Cutaneous larval migrans                                   | (D) Visceral larval migrans     |  |  |  |  |  |
|     | (E)                        | Answer not known   |                                 |  |  |  |  |  |
| 30. |                            | mmers itch an allergic synd                                | rome caused by cercariae can be |  |  |  |  |  |
|     | (A)                        | Corticosteroid cream                                       | (B) Cool compresses             |  |  |  |  |  |
|     | (C)                        | Anti-itch preparations                                     | (D) Molluscicides               |  |  |  |  |  |
|     | (E)                        | Answer not known   |                                 |  |  |  |  |  |
| 31. |                            | nropods mediated transmiss<br>asmitted from one developmen | 2                               |  |  |  |  |  |
|     | (A)                        | Transovarian   | (B) Transstadial                |  |  |  |  |  |
|     | (C)                        | Hereditary   | (D) Stercorarian                |  |  |  |  |  |
|     | (E)                        | Answer not known   |                                 |  |  |  |  |  |

| 32. |     |         | se trai  |         | sion, the  | etiolo  | ogica | al agent   | multip    | olies  | in   | the  |
|-----|-----|---------|----------|---------|------------|---------|-------|------------|-----------|--------|------|------|
|     | (A) | Med     | hanica   | al Trar | nsmission  | n (     | (B)   | Propaga    | tive Tra  | nsmi   | ssic | n    |
|     | (C) | Dev     | elopm    | ental T | Transmis   | sion (  | (D)   | Vertical   | Transm    | issio  | n    |      |
|     | (E) |         | -        | ot knov |            | ·       |       |            |           |        |      |      |
| 33. |     | facto   |          | which   | the sus    | sceptik | oilit | y of hos   | st to a   | dise   | ease | e is |
|     | (A) | Ena     | bling    | factor  |            | (       | (B)   | Precipita  | ating fac | ctor   |      |      |
|     | (C) |         | _        | g facto | or         |         |       | Predispo   | _         |        |      |      |
|     | (E) |         |          | ot knov |            | ·       |       | -          | C         |        |      |      |
|     |     |         |          |         |            |         |       |            |           |        |      |      |
| 34. | Mat | tch the | e follov | wing :  |            |         |       |            |           |        |      |      |
|     | Mat | tch the | e disea  | se wit  | h their cl | inical  | sign  | ns         |           |        |      |      |
|     | (a) | Infec   | tious I  | Laryng  | otracheit  | is 1.   | Tł    | nick leg s | yndrom    | .e     |      |      |
|     | (b) | EDS     | 76       |         |            | 2.      | R     | ed leg sy  | ndrome    | !      |      |      |
|     | (c) | Lymp    | phoid I  | Leukos  | sis        | 3.      | S     | oft-shelle | ed eggs   |        |      |      |
|     | (d) | Mare    | k's Di   | sease   |            | 4.      | P     | ump har    | idle resp | oirati | on   |      |
|     |     | (a)     | (b)      | (c)     | (d)        |         |       |            |           |        |      |      |
|     | (A) | 4       | 1        | 2       | 3          |         |       |            |           |        |      |      |
|     | (B) | 3       | 1        | 4       | 2          |         |       |            |           |        |      |      |
|     | (C) | 4       | 3        | 1       | 2          |         |       |            |           |        |      |      |
|     | (D) | 3       | 2        | 4       | 1          |         |       |            |           |        |      |      |
|     | (E) | Answ    | ver not  | know    | n          |         |       |            |           |        |      |      |
|     |     |         |          |         |            |         |       |            |           |        |      |      |
|     |     |         |          |         |            |         |       |            |           |        |      |      |
|     |     |         |          |         |            |         |       |            |           |        |      |      |

| 35. | Gun | nboro disease (IBD) is called by                                    |       |                             |
|-----|-----|---|-------|-----------------------------|
|     | (A) | Birna virus   | (B)   | Adeno virus                 |
|     | (C) | Rhabdo virus  | (D)   | Paramyxo virus              |
|     | (E) | Answer not known  |       |                             |
| 36. | Nun | nber of serotyper present in blu                                    | e ton | igue virus                  |
|     | (A) | 23  | (B)   | 27                          |
|     | (C) | 18  | (D)   | 25                          |
|     | (E) | Answer not known  |       |                             |
| 37. |     | strain of <u>Brucella abortus</u> use<br>ne brucellosis in India is | ed in | calfhood vaccine to control |
|     | (A) | B. abortus strain S99   | (B)   | B. abortus strain S19       |
|     | (C) | <u>B. melifensis</u> strain Rev1                                    | (D)   | B. abortus strain RB51      |
|     | (E) | Answer not known  |       |                             |
| 38. | Whi | ch of the following is incorrectly                                  | y pai | red?                        |
|     | (1) | Clostridium septicum – I  | Brax  | y                           |
|     | (2) | Clostridium novyi – I   | Black | a leg                       |
|     | (3) | Clostridium chauvoei – I  | Black | disease                     |
|     | (4) | Clostridium perfringens – I   | Ente  | rotoxemia                   |
|     | (A) | (2) and (3)   | (B)   | (1) and (3)                 |
|     | (C) | (3) and (4)   | (D)   | (1) and (4)                 |
|     | (E) | Answer not known  |       |                             |
|     |     |   |       |                             |

| 39. | Thin layer of peptidoglycan is present in |                                    |       |                           |  |  |
|-----|---|------------------------------------|-------|---------------------------|--|--|
|     | (A)                                       | Gram +ve bacteria                  | (B)   | Gram –ve bacteria         |  |  |
|     | (C)                                       | Archaea                            | (D)   | Mycobacteria              |  |  |
|     | (E)                                       | Answer not known                   |       |                           |  |  |
|     |   |                                    |       |                           |  |  |
| 40. | Whi                                       | ch of the following is not the pro | oper  | ty of mycotoxins?         |  |  |
|     | (A)                                       | Low molecular weight compou        | ınds  |                           |  |  |
|     | (B)                                       | Immunogenic compound               |       |                           |  |  |
|     | (C)                                       | Heat stable substances             |       |                           |  |  |
|     | (D)                                       | Secondary fungal metabolites       |       |                           |  |  |
|     | (E)                                       | Answer not known                   |       |                           |  |  |
| 41. | Rowi                                      | ne Dermatophytosis is usually      | 00110 | and by                    |  |  |
| 41. |   |                                    |       | -                         |  |  |
|     | (A)                                       | Trichophyton equinum               |       | Microsporum gallinae      |  |  |
|     | (C)                                       | Trichophyton simii                 | (D)   | Trichophyton verrucosum   |  |  |
|     | (E)                                       | Answer not known                   |       |                           |  |  |
| 42. | Whi                                       | ch of the following is not a gree: | n ho  | use gas?                  |  |  |
|     | (A)                                       | $\mathrm{CO}_2$                    | (B)   | $\mathrm{H}_2$            |  |  |
|     | (C)                                       | $\mathrm{CH}_4$                    | (D)   | CFC                       |  |  |
|     | (E)                                       | Answer not known                   |       |                           |  |  |
| 43. | The                                       | international treaty which is re   | elate | d with ozone depletion is |  |  |
|     | (A)                                       | Ramsar convention                  |       | Kyoto protocol            |  |  |
|     | (A)<br>(C)                                | Montreal protocol                  | ` ′   | London convention         |  |  |
|     | (E)                                       | Answer not known                   | (D)   | Dollati Colly CliviOll    |  |  |
|     | (L)                                       | THIS WOL HOU MHOWII                |       |                           |  |  |
|     |   |                                    |       |                           |  |  |

- 44. Byssinosis is caused by the inhalation of
  - (A) Coal dust

(B) Cotton dust

(C) Sugarcane dust

- (D) Silicate dust
- (E) Answer not known
- 45. Red nose is caused by
  - (A) Blue tongue
  - (B) Mucosal disease
  - (C) Infectious bovine rhinotracheitis
  - (D) Pox
  - (E) Answer not known
- 46. Assertion (A) : Blood smell from the tip of ear that is on the lower side of animal carcass is taken to rule out

anthrax.

Reason (R) : Because of gravity all blood would have drained

from the ear on the upper side.

- (A) (A) is true, and (R) is false
- (B) (A) is false, and (R) is true
- (C) Both (A) and (R) are true, and (R) is the correct explanation of (A)
- (D) Both (A) and (R) are true, and (R) is not the correct explanation of (A)
- (E) Answer not known

| 47. |     | ection of pus locally within a clalled                           | osed  | cavity in an organ or tissue |  |  |  |  |
|-----|-----|--|-------|------------------------------|--|--|--|--|
|     | (A) | Sinus  | (B)   | Abscess                      |  |  |  |  |
|     | (C) | Fistula  | (D)   | Pustule                      |  |  |  |  |
|     | (E) | Answer not known   |       |                              |  |  |  |  |
| 48. | Ede | ma is caused due to  |       |                              |  |  |  |  |
|     | 1.  | 1. Increased capillary permeability of the capillary endothelium |       |                              |  |  |  |  |
|     | 2.  | Increase in plasma proteins                                      |       |                              |  |  |  |  |
|     | 3.  | Increase in colloid osmotic pressure of the blood                |       |                              |  |  |  |  |
|     | 4.  | Decreased hydrostatic pressure of blood                          |       |                              |  |  |  |  |
|     | (A) | 1 only   | (B)   | 1 and 2                      |  |  |  |  |
|     | (C) | 1, 2  and  4   | (D)   | 1 and 3                      |  |  |  |  |
|     | (E) | Answer not known   |       |                              |  |  |  |  |
| 49. | The | primary immunosuppressive d                                      | iseas | e in poultry include(s)      |  |  |  |  |
|     | 1.  | Infectious bursal disease  |       |                              |  |  |  |  |
|     | 2.  | Fowl pox   |       |                              |  |  |  |  |
|     | 3.  | Chicken infectious anaemia                                       |       |                              |  |  |  |  |
|     | 4.  | Epidemic tremor  |       |                              |  |  |  |  |
|     | (A) | 1 and 4 are correct  | (B)   | 1 and 3 are correct          |  |  |  |  |
|     | (C) | 2 and 3 are correct  | (D)   | 2 and 4 are correct          |  |  |  |  |
|     | (E) | Answer not known   |       |                              |  |  |  |  |
|     |     |  |       |                              |  |  |  |  |

| 50. | Rect | Rectal pinch smear is used for diagnose of |  |  |  |  |  |  |  |
|-----|------|--|--|--|--|--|--|--|--|
|     | (A)  | Tuberculosis                               | (B) Johne's disease  |  |  |  |  |  |  |
|     | (C)  | Haemorrhagic septicaemia                   | (D) Pesti de pesti ruminantia  |  |  |  |  |  |  |
|     | (E)  | Answer not known                           |  |  |  |  |  |  |  |
| 51. | Car  | Carcinoma is defined as malignant tumor of |  |  |  |  |  |  |  |
|     | (A)  | muscle                                     | (B) horn   |  |  |  |  |  |  |
|     | (C)  | epithelial tissue                          | (D) blood  |  |  |  |  |  |  |
|     | (E)  | Answer not known                           |  |  |  |  |  |  |  |
| 52. | neci | -  | birds, liver showed multifocal<br>on heart, blood smear revealed<br>agnosis is |  |  |  |  |  |  |
|     | (1)  | Escherichia coli                           |  |  |  |  |  |  |  |
|     | (2)  | Salmonella                                 |  |  |  |  |  |  |  |
|     | (3)  | Streptococci                               |  |  |  |  |  |  |  |
|     | (4)  | Corynebacterium                            |  |  |  |  |  |  |  |
|     | (A)  | (1) is correct and (2), (3), (4)           | are false  |  |  |  |  |  |  |
|     | (B)  | (2) is correct and (1), (3), (4)           | are false  |  |  |  |  |  |  |
|     | (C)  | (3) is correct and (1), (2), (4)           | are false  |  |  |  |  |  |  |
|     | (D)  | All (1), (2), (3), (4) are false s         | tatements  |  |  |  |  |  |  |
|     | (E)  | Answer not known                           |  |  |  |  |  |  |  |

| <b>5</b> 3. | Identify the true statements regarding the concurrent use of non |
|-------------|--|
|             | steroidal anti inflammatory drugs with the following drugs.      |

- 1. Usage with aminoglycosides leads to nephrotoxicity
- 2. Usage with glucocorticoids enhances the immunity and antiinflammatory effect
- 3. Usage with anticonvulsant drugs reduce the toxicological effect of both the drugs.
- 4. Usage with glucocorticoids increases the RNK of gastro intestinal ulceration.
- (A) (1) and (2)

(B) (1) and (3)

(C) (3) and (4)

(D) (1) and (4)

- (E) Answer not known
- 54. Which of the following statement is/are true with reference to organophosphorus and carbamate insecticides poisoning in animals
  - (i) Both the insecticides act by irreversible inhibition of acetyl choline esterase enzyme
  - (ii) Organophosphorus poisoning can be treated with atropine and oximes
  - (iii) Oximes are not recommended in carbamate poisoning

(A) (i) only

(B) (ii) only

(C) (i) and (ii) only

(D) (ii) and (iii) only

| 55. | Iver  | mectin is in effective against ex   | zcept                           |  |  |  |  |
|-----|---|---|---------------------------------|--|--|--|--|
|     | (a)   | Nematodes   |                                 |  |  |  |  |
|     | (b)   | Cestodes  |                                 |  |  |  |  |
|     | (c)   | Trematodes  |                                 |  |  |  |  |
|     | (d)   | Mites   |                                 |  |  |  |  |
|     | (A)   | (a) and (b)   | (B) (b) and (c)                 |  |  |  |  |
|     | (C)   | (c) and (d)   | (D) (d) and (a)                 |  |  |  |  |
|     | (E)   | Answer not known  |                                 |  |  |  |  |
| 56. | Plasma half-life is the time required for                             |   |                                 |  |  |  |  |
|     | (A) 50 percent of dose of a drug to be absorbed into the bloo stream. |   |                                 |  |  |  |  |
|     | (B)   | 50 percent of a given dose of a   | drug to be metabolised          |  |  |  |  |
|     | (C)   | 50 percent of the amount of a   | drug in the body to be excreted |  |  |  |  |
|     | (D)   | The plasma level of a drug to   | fall by 50 per cent             |  |  |  |  |
|     | (E)   | Answer not known  |                                 |  |  |  |  |
| 57. |   | The lighter level of anaesthesia that is not suitable for surgical procedures but helps in restraining the animal is called |                                 |  |  |  |  |
|     | (A)   | Pre-anaesthetic medication  | (B) Basal anaesthesia           |  |  |  |  |
|     | (C)   | Balanced Anaesthesia  | (D) Local anaesthesia           |  |  |  |  |

| 58. |   | ch of the following sthetic?   | ng is not a  | n ideal  | requirement    | for a | local |  |  |  |
|-----|---|--|--------------|----------|----------------|-------|-------|--|--|--|
|     | (A)   | (A) should produce reversible paralysis of sensory nerves  |              |          |                |       |       |  |  |  |
|     | (B)   | should have non-   | addictive pr | operties | · ·            |       |       |  |  |  |
|     | (C)   |  |              |          |                |       |       |  |  |  |
|     | (D)   | ` '  |              |          |                |       |       |  |  |  |
|     | (E)   | Answer not know  | vn           |          |                |       |       |  |  |  |
| 59. | The role of bovines in the life cycle of <u>Taenia saginata</u> |  |              |          |                |       |       |  |  |  |
|     | (A)   | Final host   |              | (B) Ir   | ntermediate ho | ost   |       |  |  |  |
|     | (C)   | Paratenic host   |              | (D) C    | arrier host    |       |       |  |  |  |
|     | (E)   | Answer not know  | vn           |          |                |       |       |  |  |  |
| 60. | The sporulated oocysts of cryptosporidium possess               |  |              |          |                |       |       |  |  |  |
|     | (A)   | (A) No sporocysts, eight sporozoites   |              |          |                |       |       |  |  |  |
|     | (B)   |  |              |          |                |       |       |  |  |  |
|     | (C)   |  |              |          |                |       |       |  |  |  |
|     | (D)   | Four sporozoites   | not enclosed | in a sp  | orocyst        |       |       |  |  |  |
|     | (E)   | Answer not know  | vn           |          |                |       |       |  |  |  |
| 61. | Fen   | A farmer reports resistance in <u>Haemonchus</u> <u>Contortus</u> to Fenbendazole in his Flock. As there is anthelmintic resistance to Fenbendazole what alternate drug can be used? |              |          |                |       |       |  |  |  |
|     | (A)   | Albendazole  |              | (B) F    | ebantel        |       |       |  |  |  |
|     | (C)   | Levamisole   |              | (D) T    | hiabendazole   |       |       |  |  |  |

(E)

Answer not known

| 62. |   |                        |                 |               | arasites with |         | T :                             |                         |  |
|-----|---|------------------------|-----------------|---------------|---------------|---------|---------------------------------|-------------------------|--|
|     | (a)                                     |                        |                 |               |               |         | 1.                              | Liver                   |  |
|     | (b)                                     |                        |                 |               | <u>1</u>      |         | 2.<br>3.                        | Desophagus<br>Colon     |  |
|     | (c)<br>(d)                              | _                      | ocerca<br>hopum | _             | totus         |         | 3.<br>4.                        | Kidney                  |  |
|     | (u)                                     | Step                   | <u>hanur</u> ı  | <u>us uen</u> | <u>tatus</u>  |         | 4.                              | Kluffey                 |  |
|     |   | (a)                    | (b)             | (c)           | (d)           |         |                                 |                         |  |
|     | (A)                                     | 3                      | 1               | 2             | 4             |         |                                 |                         |  |
|     | (B)                                     | 2                      | 3               | 4             | 1             |         |                                 |                         |  |
|     | (C)                                     |                        | 2               | 3             | 4             |         |                                 |                         |  |
|     | (D)                                     |                        | 3               | 2             | 1             |         |                                 |                         |  |
|     | (E)                                     | Ans                    | swer no         | ot knov       | wn            |         |                                 |                         |  |
| 63. | Bursati in hores is caused by Larvae of |                        |                 |               |               |         |                                 |                         |  |
|     | (A)                                     | (A) Oxyuris equi       |                 |               |               | (B)     | Strong                          | <u>ylus Vulgaris</u>    |  |
|     | (C)                                     | Onchocerca Cervicalis  |                 |               | vicalis       |         | _                               | <u>iia Megastoma</u>    |  |
|     | (E)                                     |                        | swer no         |               |               |         |                                 | -                       |  |
| 64. | Sul                                     | phur                   | yellow          | coloui        | red dropping  | is th   | e chara                         | cteristic clinical sign |  |
|     | in T                                    | Turke                  | ys infe         | cted w        | ith           |         |                                 |                         |  |
|     | (A)                                     | Tri                    | chomo           | nas <u>Ga</u> | <u>llinae</u> | (B)     | (B) <u>Hexamita Meleagridis</u> |                         |  |
|     | (C)                                     | Histomonas Meleagridis |                 |               | eagridis      | (D)     | Chilom                          | <u>astix</u> gallinarum |  |
|     | \ /                                     |                        |                 | 40 11101      |               | \ /     |                                 | gaiiiiai aiii           |  |
|     | (E)                                     | Ans                    | swer no         |               | _             | ` /     |                                 | gammaram                |  |
| 65. | (E)                                     |                        | swer no         | ot knov       | _             |         |                                 | gammaram                |  |
| 65. | (E)                                     | nal im                 | swer no         | ot knov       | wn            | ver (   | of                              | gammaram                |  |
| 65. | (E)                                     |                        | swer no         | ot knov       | wn            | ver (B) |                                 | gammaram                |  |

| 66. | The  | following salivary gland is pre                | sent | only in Dog.              |  |  |  |  |  |
|-----|--|--|------|---------------------------|--|--|--|--|--|
|     | (A)  | Zygomatic gland                                | (B)  | Sublingual gland          |  |  |  |  |  |
|     | (C)  | Mandibular gland                               | (D)  | Maxillary gland           |  |  |  |  |  |
|     | (E)  | Answer not known                               |      |                           |  |  |  |  |  |
| 67. | The right atrio-ventricular orifice of the heart is guarded by |  |      |                           |  |  |  |  |  |
|     | (A)  | Foramen ovale                                  | (B)  | Bicuspid valve            |  |  |  |  |  |
|     | (C)  | Conus arteriosus                               | (D)  | Tricuspid valve           |  |  |  |  |  |
|     | (E)  | Answer not known                               |      |                           |  |  |  |  |  |
| 68. | The  | The pulmonary veins opens into the root of the |      |                           |  |  |  |  |  |
|     | (A)  | Right Atrium                                   | (B)  | Left Ventricle            |  |  |  |  |  |
|     | (C)  | Left Atrium                                    | (D)  | Right Ventricle           |  |  |  |  |  |
|     | (E)  | Answer not known                               |      |                           |  |  |  |  |  |
| 69. | The  | foramen ovule connects the                     |      |                           |  |  |  |  |  |
|     | (A)  | Right and Left Atrium                          | (B)  | Right and Left Ventricle  |  |  |  |  |  |
|     | (C)  | Right Atrium and Ventricle                     | (D)  | Left Atrium and Ventricle |  |  |  |  |  |
|     | (E)  | Answer not known                               |      |                           |  |  |  |  |  |
| 70. | Abso   | Absolute deficiency of Insulin is observed in  |      |                           |  |  |  |  |  |
|     | (A)  | Pituitary Diabetes                             |      |                           |  |  |  |  |  |
|     | (B)  | Adrenal Diabetes                               |      |                           |  |  |  |  |  |
|     | (C)  | Insulin Dependent Diabetes                     |      |                           |  |  |  |  |  |
|     | (D)  | Non–Insulin Dependent Diab                     | etes |                           |  |  |  |  |  |
|     | (E)  | Answer not known                               |      |                           |  |  |  |  |  |
|     |  |  |      |                           |  |  |  |  |  |

- 71. Consider the statements and choose the correct one.
  - (1) Rothera test is most sensitive to acetone
  - (2) Rothera test is most sensitive to acetic acid
  - (3) Rothera test is most sensitive to  $\beta$ -Hydroxybutyric acid
  - (4) Rothera test is most sensitive to acetoacetic acid
  - (A) Statement (1) is correct
- (B) Statement (2) is correct
- (C) Statement (3) is correct
- (D) Statement (4) is correct
- (E) Answer not known
- 72. Estimation of C-Peptide in plasma serves as a useful index to assess the production of
  - (A) Exogenous Insulin Level
  - (B) Endogenous Insulin Level
  - (C) Prepro Insulin Level
  - (D) Pro Insulin Level
  - (E) Answer not known
- 73. Ammoniotelic animals are
  - (A) Fishes and Frogs
  - (B) Reptiles and Birds
  - (C) Ruminants
  - (D) Non-Ruminants
  - (E) Answer not known

| 74. | Con  | Conjugated bilirubin level is elevated in   |       |                         |  |  |  |  |  |
|-----|--|---|-------|-------------------------|--|--|--|--|--|
|     | (A)  | Prehepatic jaundice   | (B)   | Post hepatic jaundice   |  |  |  |  |  |
|     | (C)  | Hepatic jaundice  | (D)   | Haemolytic jaundice     |  |  |  |  |  |
|     | (E)  | Answer not known  |       |                         |  |  |  |  |  |
| 75. | Mammary lobule areolar growth is stimulated by             |   |       |                         |  |  |  |  |  |
|     | (A)  | Estrogen  | (B)   | Progesterone            |  |  |  |  |  |
|     | (C)  | Prostaglandins  | (D)   | Oxytocin                |  |  |  |  |  |
|     | (E)  | Answer not known  |       |                         |  |  |  |  |  |
| 76. | _  | Lipolysis in the adipose tissue is stimulated by all the following hormones, except |       |                         |  |  |  |  |  |
|     | (A)  | Growth hormone  | (B)   | Glucocorticoids         |  |  |  |  |  |
|     | (C)  | Glucagon  | (D)   | Insulin                 |  |  |  |  |  |
|     | (E)  | Answer not known  |       |                         |  |  |  |  |  |
| 77. | Functional Residual Capacity (FRC) is calculated by adding |   |       |                         |  |  |  |  |  |
|     | (A)  | Tidal volume and residual vol   | lume  |                         |  |  |  |  |  |
|     | (B)  | Inspiratory reserve volume a  | nd ex | piratory reserve volume |  |  |  |  |  |
|     | (C)  | Tidal volume and expiratory   | reser | ve volume               |  |  |  |  |  |
|     | (D)  | Expiratory reserve volume an  | d res | sidual volume           |  |  |  |  |  |
|     | (E)  | Answer not known  |       |                         |  |  |  |  |  |

| 78. | In t  | In the electrocardiogram 'QRS' complex represents  |                       |  |  |  |  |  |  |
|-----|---|--|-----------------------|--|--|--|--|--|--|
|     | (A)   | Ventricular Depolarization   | on                    |  |  |  |  |  |  |
|     | (B)   | Atrial Depolarization  |                       |  |  |  |  |  |  |
|     | (C)   | Atrial Repolarization  |                       |  |  |  |  |  |  |
|     | (D)   | Ventricular Repolarization   |                       |  |  |  |  |  |  |
|     | (E)   | Answer not known   |                       |  |  |  |  |  |  |
| 79. | Bloc  | Blood does not clot intravascularly due to all of the following, except                              |                       |  |  |  |  |  |  |
|     | (A)   | Positively charged endothelial surface   |                       |  |  |  |  |  |  |
|     | (B)   | Presence of heparin  |                       |  |  |  |  |  |  |
|     | (C)   | Presence of Protein C and antithrombin   |                       |  |  |  |  |  |  |
|     | (D)   | Presence of Thrombomodulin   |                       |  |  |  |  |  |  |
|     | (E)   | Answer not known   |                       |  |  |  |  |  |  |
| 80. | The functional unit of the enzyme is known as |  |                       |  |  |  |  |  |  |
|     | (A)   | Monomeric enzyme   | (B) Oligomeric enzyme |  |  |  |  |  |  |
|     | (C)   | Multi enzyme   | (D) Holo enzyme       |  |  |  |  |  |  |
|     | (E)   | Answer not known   |                       |  |  |  |  |  |  |
| 81. |   | Which one of the following Enzyme is a reliable indicator of Hepatocellular Injury in Dogs and Cats? |                       |  |  |  |  |  |  |
|     | (A)   | AST  | (B) ALT               |  |  |  |  |  |  |
|     | (C)   | ALP  | (D) ACP               |  |  |  |  |  |  |
|     | (E)   | Answer not known   |                       |  |  |  |  |  |  |

| 82. Serum Amylase is used as a screening test for |  |                                       |      | est for           |  |  |  |  |  |
|---|--|---------------------------------------|------|-------------------|--|--|--|--|--|
|   | (A)  | Acute Hepatitis                       | (B)  | Acute Gastritis   |  |  |  |  |  |
|   | (C)  | Acute Pancreatitis                    | (D)  | Acute Enteritis   |  |  |  |  |  |
|   | (E)  | Answer not known                      |      |                   |  |  |  |  |  |
|   |  |                                       |      |                   |  |  |  |  |  |
| 83.   | The end product of Glycolysis under Anaerobic condition is – |                                       |      |                   |  |  |  |  |  |
|   | (A)  | Citric Acid                           | (B)  | Pyruvic Acid      |  |  |  |  |  |
|   | (C)  | Succinic Acid                         | (D)  | Lactic Acid       |  |  |  |  |  |
|   | (E)  | Answer not known                      |      |                   |  |  |  |  |  |
| 84.   | Most of the Co-Enzymes, are Derivatives of                   |                                       |      |                   |  |  |  |  |  |
|   | (A)  | Vitamin A                             |      | Vitamin B complex |  |  |  |  |  |
|   | (C)  | Vitamin C                             | (D)  | Vitamin D         |  |  |  |  |  |
|   | (E)  | Answer not known                      |      |                   |  |  |  |  |  |
| 85.   | Floor  | space requirement for cow is          |      |                   |  |  |  |  |  |
|   | (A)  | 3.5 m² covered area, 7.0 m² open area |      |                   |  |  |  |  |  |
|   | (B)  | 7.0 m² covered area, 3.5 m² ope       |      |                   |  |  |  |  |  |
|   | (C)  | 12.0 m² covered area, 12.0 m²         | oper | n area            |  |  |  |  |  |
|   | (D)  | 4.0 m² covered area, 8.0 m² open area |      |                   |  |  |  |  |  |
|   | (E)  | Answer not known                      |      |                   |  |  |  |  |  |
| 86.   | 'Sick  | le shaped Horns' is a breed cha       | ract | er of             |  |  |  |  |  |
|   | (A)  | Jaffarabadi Buffalo                   | (B)  | Nagpuri Buffalo   |  |  |  |  |  |
|   | (C)  | Toda Buffalo                          | ` ,  | Surti Buffalo     |  |  |  |  |  |
|   | (E)  |                                       |      |                   |  |  |  |  |  |
|   |  |                                       |      |                   |  |  |  |  |  |

| 87. | Duc   | cks be           | elong to         | the fa  | amily   | f                     |                    |  |  |
|-----|---|------------------|------------------|---------|---------|-----------------------|--------------------|--|--|
|     | (A)   | Cer              | vidae            |         |         | (B) Anatidae          |                    |  |  |
|     | (C)   |                  | asianid          | lae     |         | (D) Capridae          |                    |  |  |
|     | (E)   |                  | swer n           |         | wn      | ( ) - 1               |                    |  |  |
| 88. | In order to avoid maximum solar radiation during summer mont<br>the long axis of the cattle shed should be constructed with |                  |                  |         |         |                       |                    |  |  |
|     | (A)   | No               | rth-Sou          | ath ori | entati  | n (B) South-We        | est orientation    |  |  |
|     | (C)   | No               | rth-Eas          | st orie | ntatio  | (D) East-wes          | t orientation      |  |  |
|     | (E)   | Ans              | swer n           | ot knov | wn      |                       |                    |  |  |
| 89. | An  | Ideal            | loose ł          | nouse l | oox dir | nension should be     |                    |  |  |
|     | (A)   | 7.2              | $5 \times 7.2$   | 5 m     |         | (B) $7.00 \times 7.0$ | 00 m               |  |  |
|     | (C)   | 7.50             | $0 \times 7.5$   | 0 m     |         | (D) $8.25 \times 8.2$ | 25 m               |  |  |
|     | (E)   | Ans              | swer n           | ot knov | wn      |                       |                    |  |  |
| 90. |   |                  | he cor<br>y anin |         | loor s  | pace (sq.cm.) require | ement of different |  |  |
|     | (a)   | Mou              | se               |         | 1.      | 300-600               |                    |  |  |
|     | (b)   | Rat              |                  |         | 2.      | 3700-4600             |                    |  |  |
|     | (c)   | Guir             | nea Pig          | ;       | 3.      | 65-100                |                    |  |  |
|     | (d)   | Rabl             | oit              |         | 4.      | 100-150               |                    |  |  |
|     |   | (a)              | (b)              | (c)     | (d)     |                       |                    |  |  |
|     | (A)   | 2                | 1                | 4       | 3       |                       |                    |  |  |
|     | (B)   | 4                | 3                | 2       | 1       |                       |                    |  |  |
|     | (C)   | 3                | 4                | 1       | 2       |                       |                    |  |  |
|     | (D)   | 1                | 2                | 3       | 4       |                       |                    |  |  |
|     | (E)   | Ans              | swer n           | ot knov | wn      |                       |                    |  |  |
|     |   | al Hus<br>y Scie | sbandr<br>ence   | y and   |         | 26                    |                    |  |  |

## 91. Choose the Right answer

- (1) In pasture mating, the stallion is turned out with a band of mares for the entire breeding season.
- (2) In corral mating, the stallion is turned out with mare and taken out after breeding.
- (3) Artificial insemination is increasingly used with horses including thoroughbred horses.
- (4) Hand mating is the least preferred method of breeding in horses.
- (A) (1), (2) and (3) are correct
- (B) (2), (3) and (4) are correct
- (C) (1) and (2) are correct
- (D) (3) and (4) are correct
- (E) Answer not known
- 92. The best breeding season for horses in India
  - (A) Spring

(B) Monsoon

(C) Summer

(D) Winter

| 93. | Asse | ertion [A] :   | Inbreeding is the most common problem in captive animal breeding program.                              |  |  |  |  |  |
|-----|------|--|--|--|--|--|--|--|
|     | Rea  | son [R] :  | The foundation stock in most of the zoos are very small, inbreeding often happen unless care is taken. |  |  |  |  |  |
|     | (A)  | [A] is true but [R] is false   |  |  |  |  |  |  |
|     | (B)  | Both [A] and [R] are true; and [R] is the correct explanation of [A]     |  |  |  |  |  |  |
|     | (C)  | [A] is false, [R] is true  |  |  |  |  |  |  |
|     | (D)  | Both [A] and [R] are true; but [R] is not the correct explanation of [A] |  |  |  |  |  |  |
|     | (E)  | Answer not k   | nown   |  |  |  |  |  |
| 94. | The  | The age of Disbudding in calves is                                       |  |  |  |  |  |  |
|     | (A)  | 12-14 days   | (B) 3-10 days  |  |  |  |  |  |
|     | , ,  | 1-2 days   | (D) 14-16 days   |  |  |  |  |  |
|     | (E)  |  |  |  |  |  |  |  |
| 95. |      | shing for ewes   | s has to be carried out — before   |  |  |  |  |  |
|     | (A)  | 1 to 2 weeks   | (B) 2 to 3 weeks   |  |  |  |  |  |
|     | (C)  | 3 to 1 wooks   | (D) 4 to 5 weeks   |  |  |  |  |  |

| 96.  | Whi  | ch one of the following   | is in   | correctl  | y paird?                                       |
|------|------|---------------------------|---------|-----------|--|
|      | (A)  | Angora goat               | _       | Pashm     | ina production                                 |
|      | (B)  | Anglo-Nubian goat         | _       | Jersey    | of cow   |
|      | (C)  | Black Bengal goat         | _       | Excelle   | ent skin quality                               |
|      | (D)  | Nellore sheep             | _       | Tallest   | sheep of India                                 |
|      | (E)  | Answer not known          |         |           |  |
| 97.  | Whi  | ch of the following bod   | y par   | t is best | for branding?                                  |
|      | (A)  | Lower part of thigh       |         | (B)       | Upper edge of ear                              |
|      | (C)  | Both (A) and (B)          |         | (D)       | None of the above                              |
|      | (E)  | Answer not known          |         |           |  |
| 98.  | Bree | ed of buffalo not origina | ate fr  | om Guja   | ırat   |
|      | (A)  | Surti                     |         | (B)       | Murrah   |
|      | (C)  | Mehsana                   |         | (D)       | Jaffarabadi                                    |
|      | (E)  | Answer not known          |         |           |  |
| 99.  | Aver | rage daily amount of d    | ung v   | oided by  | the pigs in range is                           |
|      | (A)  | 2-3 kg                    |         | (B)       | 3-5 kg   |
|      | (C)  | 5-6 kg                    |         | (D)       | 7-9 kg   |
|      | (E)  | Answer not known          |         |           |  |
| 100. |      | reeding boar the moti     | lity of | f sperm   | immediately after collection                   |
|      | (A)  | 50 to 60 percent          |         | (B)       | 60 to 70 percent                               |
|      | (C)  | 70 to 80 percent          |         | (D)       | 80 to 90 percent                               |
|      | (E)  | Answer not known          |         |           |  |
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| 101. | To improve the reproductive performance of the pigs, boar should be provided |  |                                  |  |  |  |  |  |  |  |
|------|--|--|----------------------------------|--|--|--|--|--|--|--|
|      | (A)  | Individual sty   |                                  |  |  |  |  |  |  |  |
|      | (B)  | Individual sty in the vicinity of gilt pens                    |                                  |  |  |  |  |  |  |  |
|      | (C)  | Individual sty away from the gilt pens                         |                                  |  |  |  |  |  |  |  |
|      | (D)  | Individual sty in the vicinity of gilt and sow pens            |                                  |  |  |  |  |  |  |  |
|      | (E)  | Answer not known   |                                  |  |  |  |  |  |  |  |
| 102. | The  | The scientific name of pigmy hog                               |                                  |  |  |  |  |  |  |  |
|      | (A)  | Sus serofa   | (B) Sus cristatus                |  |  |  |  |  |  |  |
|      | (C)  | Sus domesticus   | (D) Sus salvanius                |  |  |  |  |  |  |  |
|      | (E)  | Answer not known   |                                  |  |  |  |  |  |  |  |
| 103. | _  | mportant factor responsible for from non descript pig in India | or production of large amount of |  |  |  |  |  |  |  |

- of
  - (A) Cross breeding with bacon type swine breed
  - (B) Cross breeding with lard type swine breed
  - (C) Cross breeding with exotic swine breed
  - (D) Cross breeding with the best indigenous swine breed
  - Answer not known (E)
- 104. The per capita availability of meat in India during 2022-23 was
  - 7.10 kg/annum (A)

(B) 8.10 kg/annum

9.10 kg/annum (C)

(D) 9.60 kg/annum

Answer not known (E)

| 105. |       | following statements w<br>ramme is/are              | hich   | is/are  | e true     | about      | an    | extension   |  |
|------|-------|---|--------|---------|------------|------------|-------|-------------|--|
|      | (i)   | A statement of situation                            | n, obj | ectives | s, probl   | ems an     | d so  | lutions     |  |
|      | (ii)  | It is relatively temporar                           | y an   | d does  | not rec    | quire re   | evisi | on          |  |
|      | (iii) | It forms the basis for extension plans              |        |         |            |            |       |             |  |
|      | (A)   | (i) only  |        | (B)     | (i) and    | (iii) on   | ly    |             |  |
|      | (C)   | (i) and (ii) only                                   |        | (D)     | (ii) and   | l (iii) or | nly   |             |  |
|      | (E)   | Answer not known                                    |        |         |            |            |       |             |  |
| 106. |       | outline of procedures<br>ution of the entire progra |        | _       |            | to en      | able  | e efficient |  |
|      | (A)   | Plan of work  |        | (B)     | Calend     | ler of w   | ork   |             |  |
|      | (C)   | Project   |        | (D)     | Situati    | on ana     | lysis | 8           |  |
|      | (E)   | Answer not known                                    |        |         |            |            |       |             |  |
| 107. | Choo  | ose the right matches am                            | ong t  | he foll | owing      |            |       |             |  |
|      | (i)   | Key village scheme                                  | _      | multi   | faceted    | appro      | ach   |             |  |
|      | (ii)  | Operation flood I                                   | _      | 1970    | <b>-81</b> |            |       |             |  |
|      | (iii) | National milk grid                                  | _      | Impro   | ove dai:   | ry cattl   | e     |             |  |
|      | (iv)  | Technology mission on dairy development             | _      | Natio   | nal ma     | rket for   | r mi  | lk          |  |
|      | (A)   | (i) and (ii) are correct                            |        | (B)     | (i) and    | (iii) are  | e cor | rrect       |  |
|      | (C)   | (ii) and (iii) are correct                          |        | (D)     | (iii) and  | d (iv) a   | re co | orrect      |  |
|      | (E)   | Answer not known                                    |        |         |            |            |       |             |  |
|      |       |   |        |         |            |            |       |             |  |

| 108. | The TOT project of ICAR that is implemented with the specific objective to test, adopt and demonstrate the new agricultura technology on farmer's fields is |                                   |     |                          |  |  |  |  |  |  |  |
|------|---|-----------------------------------|-----|--------------------------|--|--|--|--|--|--|--|
|      | (A)   | Operational research project      | (B) | National demonstrations  |  |  |  |  |  |  |  |
|      | (C)   | Lab to land programme             | (D) | Operation flood          |  |  |  |  |  |  |  |
|      | (E)   |                                   |     |                          |  |  |  |  |  |  |  |
| 109. | According to Aristotle, communication has the following ingredients. Choose the correct answer  |                                   |     |                          |  |  |  |  |  |  |  |
|      | (i)   | Speaker – Speech – Audience       |     |                          |  |  |  |  |  |  |  |
|      | (ii)  | Source – Encoder – Audience       |     |                          |  |  |  |  |  |  |  |
|      | (iii)   | Communicator – Decoder – Response |     |                          |  |  |  |  |  |  |  |
|      | (iv)  | Speaker – Audience                |     |                          |  |  |  |  |  |  |  |
|      | (A)   | (i) is correct                    | (B) | (i) and (ii) are correct |  |  |  |  |  |  |  |
|      | (C)   | (iii) is correct                  | (D) | (iv) is correct          |  |  |  |  |  |  |  |
|      | (E)   | Answer not known                  |     |                          |  |  |  |  |  |  |  |
| 110. | The degree to which an innovation is perceived as being better the idea it supersedes is called its   |                                   |     |                          |  |  |  |  |  |  |  |
|      | (A)   | Complexity                        | (B) | Observability            |  |  |  |  |  |  |  |
|      | (C)   | Predictability                    | (D) | Relative advantage       |  |  |  |  |  |  |  |
|      | (E)   | Answer not known                  |     |                          |  |  |  |  |  |  |  |
|      |   |                                   |     |                          |  |  |  |  |  |  |  |

| 111. | Relative speed with which an innovation is adopted by members of a social system is called |      |                     |         |         |       |                                     |  |  |
|------|--|------|---------------------|---------|---------|-------|-------------------------------------|--|--|
|      | (A)  | Rat  | e of ad             | loptior | 1       |       | (B) Innovativeness                  |  |  |
|      | (C)  |      | fusion              |         |         |       | (D) Implementation                  |  |  |
|      | (E)  | Ans  | swer no             | ot kno  | wn      |       |                                     |  |  |
| 112. | n innovation that are made by an lecisions of the other members of the                     |      |                     |         |         |       |                                     |  |  |
|      | (A)  | Opt  | ional i             | nnova   | ition d | ecisi | ion                                 |  |  |
|      | (B)  | Col  | lective             | innov   | ation   | deci  | sion                                |  |  |
|      | (C)  | Aut  | hority              | innov   | ation   | decis | sion                                |  |  |
|      | (D)  | Rat  | ional i             | nnova   | tion d  | ecisi | on                                  |  |  |
|      | (E)  | Ans  | swer no             | ot kno  | wn      |       |                                     |  |  |
|      |  |      |                     |         |         |       |                                     |  |  |
| 113. |  |      | orrectly<br>ristics |         | adopt   | er (  | categories with their corresponding |  |  |
|      | (a)  | Inno | vators              |         |         | 1.    | Opinion leadership                  |  |  |
|      | (b)  | Earl | y adop              | ters    |         | 2.    | Venturesome                         |  |  |
|      | (c)  | Lagg | gards               |         |         | 3.    | Deliberate                          |  |  |
|      | (d)  | Earl | у Мајо              | rity    |         | 4.    | Traditional                         |  |  |
|      |  | (a)  | (b)                 | (c)     | (d)     |       |                                     |  |  |
|      | (A)  | 2    | 1                   | 4       | 3       |       |                                     |  |  |
|      | (B)  | 1    | 4                   | 3       | 2       |       |                                     |  |  |
|      | (C)  | 3    | 1                   | 2       | 4       |       |                                     |  |  |
|      | (D)  | 4    | 2                   | 1       | 3       |       |                                     |  |  |
|      | (E)  | Ans  | wer no              | t knov  | vn      |       |                                     |  |  |
|      |  |      |                     |         |         |       |                                     |  |  |
|      |  |      |                     |         |         |       |                                     |  |  |

| 114. | The form of decision of an innovation which consists of considering adoption of the innovation, but then deciding not to adopt is called |   |                  |                                       |  |  |  |  |  |  |  |  |
|------|--|---|------------------|---------------------------------------|--|--|--|--|--|--|--|--|
|      | (A) Passive rejection  |   |                  |                                       |  |  |  |  |  |  |  |  |
|      | (B) Discontinuance   |   |                  |                                       |  |  |  |  |  |  |  |  |
|      | (C) Disenchantment discontinuance  |   |                  |                                       |  |  |  |  |  |  |  |  |
|      | (D)  | Active rejection                                | Active rejection |                                       |  |  |  |  |  |  |  |  |
|      | (E)  | Answer not known                                |                  |                                       |  |  |  |  |  |  |  |  |
| 115. |  | ribution of functions<br>onal and local authori |                  | nd powers from a central authority to |  |  |  |  |  |  |  |  |
|      | (A)  | Decentralization                                |                  | (B) Centralization                    |  |  |  |  |  |  |  |  |
|      | (C)  | Bureaucracy                                     |                  | (D) Coordination                      |  |  |  |  |  |  |  |  |
|      | (E)  | Answer not known                                |                  |                                       |  |  |  |  |  |  |  |  |
| 116. | One  | of the following is no                          | t an             | element in a learning situation       |  |  |  |  |  |  |  |  |
|      | (A)  | Learners  |                  | (B) Subject matter                    |  |  |  |  |  |  |  |  |
|      | (C)  | Physical facilities                             |                  | (D) Supervision                       |  |  |  |  |  |  |  |  |
|      | (E)  | Answer not known                                |                  |                                       |  |  |  |  |  |  |  |  |
| 117. | Choo   | ose the right matches                           | of t             | the following :                       |  |  |  |  |  |  |  |  |
|      | 1.   | Primary group -                                 | _                | intimate face to face interaction     |  |  |  |  |  |  |  |  |
|      | 2.   | Secondary group -                               | _                | informally organised relationships    |  |  |  |  |  |  |  |  |
|      | 3.   | Formal group -                                  | _                | definite role                         |  |  |  |  |  |  |  |  |
|      | 4.   | Voluntary group -                               | _                | no choice for membership              |  |  |  |  |  |  |  |  |
|      | (A)  | 1 and 3 are correct                             |                  | (B) 1 and 2 are correct               |  |  |  |  |  |  |  |  |
|      | (C)  | 2 and 3 are correct                             |                  | (D) 3 and 4 are correct               |  |  |  |  |  |  |  |  |
|      | (E)  | Answer not known                                |                  |                                       |  |  |  |  |  |  |  |  |
|      |  | l Husbandry and<br>Science                      |                  | 34                                    |  |  |  |  |  |  |  |  |

| 118. |                           |                       | blished<br>called           | beha    | aviour | patt | erns                                    | s for                   | the   | mei          | nber  | s of a | a s | social   |
|------|---------------------------|-----------------------|-----------------------------|---------|--------|------|---|-------------------------|-------|--------------|-------|--------|-----|----------|
|      | (A)                       | Foll                  | xways                       |         |        |      | (                                       | (B) N                   | Jorm  | S            |       |        |     |          |
|      | (C)                       | Law                   | •                           |         |        |      | (                                       | (D) M                   | Iores | $\mathbf{s}$ |       |        |     |          |
|      | (E)                       |                       | wer no                      | t knov  | wn     |      |   |                         |       |              |       |        |     |          |
| 119. | und                       | esirab                | e rate<br>ble to<br>called' | permi   | _      |      |   |                         | _     |              |       |        | _   |          |
|      | (A)                       | A) Stable equilibrium |                             |         |        |      |   | (B) Dynamic equilibrium |       |              |       |        |     |          |
|      | (C)                       |                       | equilib                     |         |        |      | (D) Unstable equilibrium                |                         |       |              |       |        |     |          |
|      | (E)                       |                       | wer no                      |         | wn     |      | (= / = ================================ |                         |       |              |       |        |     |          |
|      | \ /                       |                       |                             |         |        |      |   |                         |       |              |       |        |     |          |
| 120. |                           |                       | orrectly<br>le for t        |         |        |      |   |                         |       |              | with  | the    | po  | erson    |
|      | (a) Work at Shantiniketan |                       |                             |         |        |      | 1.                                      | F.L                     | . Bra | ayne         |       |        |     |          |
|      | (b)                       | Etaw                  | ah Pilo                     | ot Proj | ject   |      | 2.                                      | S.K                     | . De  | У            |       |        |     |          |
|      | (c)                       | Nilok                 | kheri E                     | xperir  | nent   |      | 3.                                      | Alb                     | ert N | <b>I</b> aye | r     |        |     |          |
|      | (d)                       | Gurg                  | aon Ex                      | perim   | ent    |      | 4.                                      | Shr                     | i Ra  | bind         | ranat | th Tag | gor | <b>e</b> |
|      |                           | (a)                   | (b)                         | (c)     | (d)    |      |   |                         |       |              |       |        |     |          |
|      | (A)                       | 1                     | 4                           | 3       | 2      |      |   |                         |       |              |       |        |     |          |
|      | (B)                       | 4                     | 3                           | 2       | 1      |      |   |                         |       |              |       |        |     |          |
|      | (C)                       | 3                     | <b>2</b>                    | 4       | 1      |      |   |                         |       |              |       |        |     |          |
|      | (D)                       | 2                     | 1                           | 4       | 3      |      |   |                         |       |              |       |        |     |          |
|      | (E)                       | Ans                   | wer no                      | t knov  | vn     |      |   |                         |       |              |       |        |     |          |
|      |                           |                       |                             |         |        |      |   |                         |       |              |       |        |     |          |
|      |                           |                       |                             |         |        |      |   |                         |       |              |       |        |     |          |

| 121. |                                    | A diversified farm is one on which the farmer derives income from<br>several sources, but income from no single source is more than |       |                             |  |  |  |  |  |  |
|------|------------------------------------|---|-------|-----------------------------|--|--|--|--|--|--|
|      | (A)                                | 50%   | (B)   | 10%                         |  |  |  |  |  |  |
|      | (C)                                | 25%   | (D)   | 15%                         |  |  |  |  |  |  |
|      | (E)                                | Answer not known  |       |                             |  |  |  |  |  |  |
| 122. | The t                              | third step in the extension educ  | eatio | nal process is              |  |  |  |  |  |  |
|      | (A)                                | Evaluation  | (B)   | Teaching                    |  |  |  |  |  |  |
|      | (C)                                | Reconsideration   | (D)   | Situation analysis          |  |  |  |  |  |  |
|      | (E)                                | Answer not known  |       |                             |  |  |  |  |  |  |
| 123. | The l                              | basic philosophy of extension ed  | duca  | tion is to teach people     |  |  |  |  |  |  |
|      | (A)                                | how to think, not what to think   |       |                             |  |  |  |  |  |  |
|      | (B) how to think and what to think |   |       |                             |  |  |  |  |  |  |
|      | (C)                                | how to act and where to act   |       |                             |  |  |  |  |  |  |
|      | (D)                                | how to use and when to use  |       |                             |  |  |  |  |  |  |
|      | (E)                                | Answer not known  |       |                             |  |  |  |  |  |  |
| 124. | accui                              | lifelong process by which<br>mulates knowledge, skills, at<br>riences and exposure to enviror                                       | titud | les and insights from daily |  |  |  |  |  |  |
|      | (A)                                | Formal Education  | (B)   | Informal Education          |  |  |  |  |  |  |
|      | (C)                                | Non-formal Education  | (D)   | Extension Education         |  |  |  |  |  |  |
|      | (E)                                | Answer not known  |       |                             |  |  |  |  |  |  |
|      |                                    |   |       |                             |  |  |  |  |  |  |

- 125. Which of the following norms of Central Zoo Authority related to protection and conservation of wildlife is incorrect?
  - (A) Zoo shall not exhibit any sick or injured animal
  - (B) Zoo's built up area shall not exceed 25% of the total area of the zoo
  - (C) Zoo's must have residential complexes for staff with in it's campus
  - (D) Zoo shall be closed to visitors at least once a week
  - (E) Answer not known
- 126. In making a diagnosis of fatty liver, which among the following is incorrect
  - (A) Increase in the serum NEFA levels
  - (B) Increase in cholesterol level
  - (C) Increase in BHBA levels
  - (D) Increase in serum bilirubin levels
  - (E) Answer not known

- 127. The characteristic clinical findings of milk fever and concurrent hypophosphatemia in dairy cow is
  - (i) Moderate tetany, hyperesthesia, excitement, trismus and twitching of eyelids
  - (ii) Clinical findings similar to typical milk fever which responds to Ca therapy except the cow unable to stand
  - (iii) Extreme weakness or recumbency especially after treatment with isofluperidone
  - (iv) Licking, circling and abnormal voice
  - (A) (ii) (B) (iii)
  - $(C) \quad (i) \qquad (D) \quad (iv)$
  - (E) Answer not known
- 128. Choose the true statement about toxemia in large animals
  - (A) Toxemia is caused by the presence of lipoprotein cell wall components of gram positive bacteria
  - (B) Toxemia is caused by the presence of lipoprotein cell wall components of gram negative bacteria
  - (C) Toxemia is caused by the presence of lipopolysaccharide cell wall components of gram positive bacteria
  - (D) Toxemia is caused by the presence of lipopolysaccharide cell wall components of gram negative bacteria
  - (E) Answer not known

| 129.                                 |     |           | ur of the mucous membrane of the cattle affected with in (HCN) rocyanic acid and poisoning is |         |          |                               |  |  |  |  |
|--------------------------------------|-----|-----------|---|---------|----------|-------------------------------|--|--|--|--|
|                                      | (A) | Chocolate |   |         |          | (B) Bright red                |  |  |  |  |
|                                      | (C) | Dai       | rk red  |         |          | (D) Pink                      |  |  |  |  |
|                                      | (E) | Ans       | swer no   | ot knov | wn       |                               |  |  |  |  |
| 130. Flehmen's reaction is absent in |     |           |   |         | t in     |                               |  |  |  |  |
|                                      | (A) | Boy       | vine  |         |          | (B) Ovine                     |  |  |  |  |
|                                      | (C) | Equine    |   |         |          | (D) Swine                     |  |  |  |  |
|                                      | (E) | Ans       | swer no   | ot knov | wn       |                               |  |  |  |  |
| 131.                                 | Mat | ch th     | e Horr  | none w  | vith it: | s role in reproduction :      |  |  |  |  |
|                                      | (a) | FSH       |   |         | 1.       | Ovulation                     |  |  |  |  |
|                                      | (b) | LH        |   |         | 2.       | Maintenance of pregnancy      |  |  |  |  |
|                                      | (c) | Estr      | ogen  |         | 3.       | Follicular development        |  |  |  |  |
|                                      | (d) | Prog      | estero  | ne      | 4.       | Manifestation of Estrus signs |  |  |  |  |
|                                      |     | (a)       | (b)   | (c)     | (d)      |                               |  |  |  |  |
|                                      | (A) | 3         | 1   | 4       | 2        |                               |  |  |  |  |
|                                      | (B) | 1         | 2   | 4       | 3        |                               |  |  |  |  |
|                                      | (C) | 2         | 3   | 1       | 4        |                               |  |  |  |  |
|                                      | (D) | 4         | 2   | 1       | 3        |                               |  |  |  |  |
|                                      | (E) | Ans       | wer no  | t knov  | vn       |                               |  |  |  |  |

| 132. | The first postpartum ovulation is to be 'Silent Ovulation' in most of the cows because of |   |       |                              |    |  |  |  |  |
|------|---|---|-------|------------------------------|----|--|--|--|--|
|      | (A)   | ) Lack of follicle                                    |       |                              |    |  |  |  |  |
|      | (B)   | Excess progesterone secretion                         |       |                              |    |  |  |  |  |
|      | (C)   | Lack of estrogen priming                              |       |                              |    |  |  |  |  |
|      | (D)   | Lack of progesterone priming                          |       |                              |    |  |  |  |  |
|      | (E)   | Answer not known                                      |       |                              |    |  |  |  |  |
| 133. |   | ept in drug, the fertile life of over<br>vively about | ılate | ed ova in domestic animals i | İs |  |  |  |  |
|      | (A)   | 12-24 hours   | (B)   | 26-48 hours                  |    |  |  |  |  |
|      | (C)   | 48-96 hours   | (D)   | ) 96-120 hours               |    |  |  |  |  |
|      | (E)   | Answer not known                                      |       |                              |    |  |  |  |  |
| 134. | The   | day of embryo collection in catt                      | le is | s ——— from Estrus.           |    |  |  |  |  |
|      | (A)   | 7 days  | (B)   | 8 days                       |    |  |  |  |  |
|      | (C)   | 9 days  | (D)   | ) 10 days                    |    |  |  |  |  |
|      | (E)   | Answer not known                                      |       |                              |    |  |  |  |  |
| 135. | Inco  | mplete dilatation of the cervix i                     | n ev  | we is termed as              |    |  |  |  |  |
|      | (A)   | Cloud burst   | (B)   | Ringwomb                     |    |  |  |  |  |
|      | (C)   | Wry neck  | (D)   | ) Ankylosis                  |    |  |  |  |  |
|      | (E)   | Answer not known                                      |       |                              |    |  |  |  |  |

136. Match the list I with List II

List II (Type of placenta) List I (Species) (a) Primates Diffuse type of placenta 1. 2. (b) Bitch Discoid type of placenta (c) Ewe 3. Cotyledonary type of placenta (d) Mare 4. Zonary type of placenta (a) (b) (d) (c) 2 (A) 4 3 1 3 2 (B) 4 1 3 2 (C) 1 4 (D) 3 2 1 4

- (E) Answer not known
- 137. One of the following is not related to Brucellosis
  - (A) Abortion in last trimester
  - (B) Non-suppurative synovitis
  - (C) Retained placenta
  - (D) Abortion in most of the subsequent pregnancies
  - (E) Answer not known
- 138. By recto-vaginal method of insemination in cows, the AI catheter is initially inserted pointing upwards at an angle of about 30° to
  - (A) Avoid cervical folds
- (B) Avoid fornix
- (C) Avoid cervical mucus
- (D) Avoid urethral meatus
- (E) Answer not known

| 120  | The 'S' shaped structure along the shaft of the penis that aids in   |  |      |                          |  |  |  |  |  |
|------|--|--|------|--------------------------|--|--|--|--|--|
| 109. | penile erection in bulls is  |  |      |                          |  |  |  |  |  |
|      | (A)  | Retractor penis muscle   | (B)  | Ischiocavernosus muscle  |  |  |  |  |  |
|      | (C)  | Corpus spongiosum  | (D)  | Sigmoid flexure          |  |  |  |  |  |
|      | (E)  | Answer not known   |      |                          |  |  |  |  |  |
| 140. | Nerv   | e block applied for Rumenotom                                    | y is |                          |  |  |  |  |  |
|      | (A)  | Epidural nerve block   | (B)  | Cornual nerve block      |  |  |  |  |  |
|      | (C)  | Paravertebral nerve block  | (D)  | Subarachnoid nerve block |  |  |  |  |  |
|      | (E)  | Answer not known   |      |                          |  |  |  |  |  |
| 141. | Which one of the following is an objective means of roughly evaluating the size of cardiac silhouette in x ray |  |      |                          |  |  |  |  |  |
|      | (A)  | Norberg angle  |      |                          |  |  |  |  |  |
|      | (B)  | Vertebral heart scale  |      |                          |  |  |  |  |  |
|      | (C)  | Thoracic heart size  |      |                          |  |  |  |  |  |
|      | (D)  | Thoraw-diaphragmatic angle                                       |      |                          |  |  |  |  |  |
|      | (E)  | Answer not known   |      |                          |  |  |  |  |  |
| 142. |  | abular inflammatory tract ope<br>aces covered by epithelium (or) |      | 9                        |  |  |  |  |  |
|      | (A)  | Fistula  | (B)  | Sinus                    |  |  |  |  |  |
|      | (C)  | Necrosis   | (D)  | Gangrene                 |  |  |  |  |  |
|      | (E)  | Answer not known   |      |                          |  |  |  |  |  |
|      |  |  |      |                          |  |  |  |  |  |

| 143. | . Choose the right matches among type given |  |          |                             |  |  |
|------|---|--|----------|-----------------------------|--|--|
|      | (1)   | Frog like posture in cow with hind legs flexed               | _        | Peritonitis                 |  |  |
|      | (2)   | Calf unable to extend the fetlock joint                      | _        | Impactive colic             |  |  |
|      | (3)   | Frog like posture in a cow with extender hind limbs          | _        | Rupture of abductor muscles |  |  |
|      | (4)   | A cow standing in arched sack conductors with tensed abdomen | <u> </u> | Bilateral hip dysplasic     |  |  |
|      | (A)   | (1)  | (B)      | (2)                         |  |  |
|      | (C)   | (4)  | (D)      | (3)                         |  |  |
|      | (E)   | Answer not known   |          |                             |  |  |
| 144. |   | se the right matches among th                                |          | _                           |  |  |
|      | (1)   | Balanitis – In:  | flam     | mation of the glans penis   |  |  |
|      | (2)   | Posthitis – In:  | flam     | mation of the prepuce       |  |  |
|      | (3)   | Phallocampsis – In   | abili    | ty to withdraw the penis    |  |  |
|      | (4)   | Paraphimosis – De  | eviat    | ion of the penis            |  |  |
|      | (A)   | (1) and (3) are correct                                      | (B)      | (1) and (2) are correct     |  |  |
|      | (C)   | (2) and (3) are correct                                      | (D)      | (3) and (4) are correct     |  |  |
|      | (E)   | Answer not known   |          |                             |  |  |
| 145. | Mati  | ng of F1 to Homozygous recessi                               | ve p     | arent is called as          |  |  |
|      | (A)   | Test crossing  | (B)      | Back crossing               |  |  |
|      | (C)   | Cris-crossing  | (D)      | Rotational crossing         |  |  |
|      | (E)   | Answer not known   |          |                             |  |  |
|      |   |  |          |                             |  |  |

| 146. | Choo  | Choose the wrong matches                      |     |                 |                     |         |         |       |  |  |
|------|-------|---|-----|-----------------|---------------------|---------|---------|-------|--|--|
|      | Whi   | Which of the following is incorrectly paired? |     |                 |                     |         |         |       |  |  |
|      | (1)   | Mule  | _   |                 | between<br>e donkey | male    | horse   | and   |  |  |
|      | (2)   | Yattle  | _   | Cross           | between a           | cow ar  | nd a ya | k     |  |  |
|      | (3)   | Yakalo  | _   | Cross           | between ya          | ak and  | buffal  | O     |  |  |
|      | (4)   | Tigon   | _   | Cross<br>female | between<br>e tiger  | male    | lion    | and   |  |  |
|      | (A)   | (1) and (2) are incorre                       | ect | (B)             | (1) and (3)         | are in  | correct | t     |  |  |
|      | (C)   | (2) and (3) are incorre                       | ect | (D)             | (1) and (4)         | are in  | correct | t     |  |  |
|      | (E)   | Answer not known                              |     |                 |                     |         |         |       |  |  |
| 147. | Ex-s  | itu conservation is                           |     |                 |                     |         |         |       |  |  |
|      | (i)   | Preservation of sperms and Oocytes            |     |                 |                     |         |         |       |  |  |
|      | (ii)  | Storage of DNA                                |     |                 |                     |         |         |       |  |  |
|      | (iii) | Cloning of somatic cells                      |     |                 |                     |         |         |       |  |  |
|      | (iv)  | Live animal conservation (In-vivo)            |     |                 |                     |         |         |       |  |  |
|      | (A)   | (i) and (ii)                                  |     | (B)             | (i), (ii) and       | d (iv)  |         |       |  |  |
|      | (C)   | (ii), (iii) and (iv)                          |     | (D)             | (i), (ii), (iii     | ) and ( | iv)     |       |  |  |
|      | (E)   | Answer not known                              |     |                 |                     |         |         |       |  |  |
| 148. |       | mammalian species<br>ber of "breeds at risk"  |     |                 | corder to           | have t  | the hig | ghest |  |  |
|      | (A)   | Cattle  |     | (B)             | Sheep               |         |         |       |  |  |
|      | (C)   | Goat  |     | (D)             | Pig                 |         |         |       |  |  |

(E) Answer not known

| 149. |                                    | Heritability for a Quantitative trait is the measure of Degree of relationship of |                        |         |  |  |  |  |  |  |
|------|------------------------------------|---|------------------------|---------|--|--|--|--|--|--|
|      | (A)                                | Additive genetic value on phenotypic value  |                        |         |  |  |  |  |  |  |
|      | (B)                                | Dominance Deviation on Phenotypic value   |                        |         |  |  |  |  |  |  |
|      | (C)                                | Environmental Deviation on Phenotypic value                                       |                        |         |  |  |  |  |  |  |
|      | (D)                                | Additive Genetic value on Genotypic value   |                        |         |  |  |  |  |  |  |
|      | (E)                                | Answer not known  |                        |         |  |  |  |  |  |  |
| 150. | The amount of Heterosis depends on |   |                        |         |  |  |  |  |  |  |
|      | (i)                                | Presence of Dominance Effect  |                        |         |  |  |  |  |  |  |
|      | (ii)                               | Genetic differences between parental population                                   |                        |         |  |  |  |  |  |  |
|      | (iii)                              | Environment similarity  |                        |         |  |  |  |  |  |  |
|      | (A)                                | (i) only  | (B) (i) and (iii) only |         |  |  |  |  |  |  |
|      | (C)                                | (ii) and (iii) only   | (D) (i) and (ii) only  |         |  |  |  |  |  |  |
|      | (E)                                | Answer not known  |                        |         |  |  |  |  |  |  |
| 151. |                                    | ch of the following statement<br>ction in animal breeding progra                  |                        | ssisted |  |  |  |  |  |  |
|      | (i)                                | It is easily detectable using m   | olecular technique.    |         |  |  |  |  |  |  |
|      | (ii)                               | It is closely linked to the gene  | e of interest.         |         |  |  |  |  |  |  |
|      | (iii)                              | It is also served as morpholog  | ical marker.           |         |  |  |  |  |  |  |
|      | (A)                                | (i) only  | (B) (i) and (ii) only  |         |  |  |  |  |  |  |
|      | (C)                                | (ii) and (iii) only   | (D) (i) and (iii) only |         |  |  |  |  |  |  |
|      | (E)                                | Answer not known  |                        |         |  |  |  |  |  |  |

| 152. |             |             | plified<br>iate te  | _         |         |          |              | polymorphism                    | (AFLP)     | is | an |  |  |
|------|-------------|-------------|---------------------|-----------|---------|----------|--------------|---------------------------------|------------|----|----|--|--|
|      | (A)         | RFI         | LP and              | RAPI      | )       |          |              | (B) PCR and A                   | P-PCR      |    |    |  |  |
|      | (C)         | DA          | F and I             | MAAP      |         |          |              | (D) STR and S'                  | ΓMR        |    |    |  |  |
|      | (E)         | Ans         | swer no             | ot knov   | vn      |          |              | · /                             |            |    |    |  |  |
| 153. | Lar         | ge wh       | ite Yo              | rkshire   | e is or | rigina   | ginated from |                                 |            |    |    |  |  |
|      | (A) England |             |                     |           |         |          | (B) Denmark  |                                 |            |    |    |  |  |
|      | (C)         |             | ited Sta            | ates      |         |          |              | (D) Germany                     |            |    |    |  |  |
|      | (E)         | Ans         | swer no             | ot knov   | vn      |          |              | •                               |            |    |    |  |  |
| 154. | (a)<br>(b)  | Ame<br>Asia | rican c<br>tic clas | lass<br>s |         | 1.<br>2. | Cor<br>Min   | heir correspond<br>nish<br>orca | ling breed |    |    |  |  |
|      | (c)         | _           | ish cla             |           |         |          |              | gshan                           |            |    |    |  |  |
|      | (d)         | Med         | iterran             | ean cla   | ass     | 4.       | Plyr         | nouth rock                      |            |    |    |  |  |
|      |             | (a)         | (b)                 | (c)       | (d)     |          |              |                                 |            |    |    |  |  |
|      | (A)         | 4           | 1                   | 2         | 3       |          |              |                                 |            |    |    |  |  |
|      | (B)         | 3           | 4                   | 2         | 1       |          |              |                                 |            |    |    |  |  |
|      | (C)         | 4           | 3                   | 1         | 2       |          |              |                                 |            |    |    |  |  |
|      | (D)         | 2           | 1                   | 4         | 3       |          |              |                                 |            |    |    |  |  |
|      | (E)         | Ans         | wer no              | t know    | 7n      |          |              |                                 |            |    |    |  |  |
|      |             |             |                     |           |         |          |              |                                 |            |    |    |  |  |

| 155. The genetic parameter involved to assess the future performs the animals having multiple measurements, is |   |  |       | <del>-</del>        |  |  |  |
|--|---|--|-------|---------------------|--|--|--|
|  | (A)   | Repeatability  | (B)   | Genetic correlation |  |  |  |
|  | (C)   | Heritability   | (D)   | None of the above   |  |  |  |
|  | (E)   | Answer not known   |       |                     |  |  |  |
| 156.   |   | change in performance from pa<br>, which is not being actually sel |       |                     |  |  |  |
|  | (A)   | Correlated response  | (B)   | Direct response     |  |  |  |
|  | (C)   | Response to selection  | (D)   | None of the above   |  |  |  |
|  | (E)   | Answer not known   |       |                     |  |  |  |
| 157.   | _   | er the National Livestock Pol<br>c germ plasm encouraged in cro    | -     |                     |  |  |  |
|  | (A)   | 35%  | (B)   | 65%                 |  |  |  |
|  | (C)   | 50%  | (D)   | 75%                 |  |  |  |
|  | (E)   | Answer not known   |       |                     |  |  |  |
| 158.   | The co-ordinating unit of All India Co-ordinated Research Project (AICRP) on goat is located at |  |       |                     |  |  |  |
|  | (A)   | RAJUVAS, Udaipur, Rajastha   | ın    |                     |  |  |  |
|  | (B)   | CIRG, Makhdoom, Uttarprade   | esh   |                     |  |  |  |
|  | (C)   | MPKV, Rahuri, Maharashtra  |       |                     |  |  |  |
|  | (D)   | Navsari Agricultural Universi                                      | ty, ( | Jujarat             |  |  |  |
|  | (E)   | Answer not known   |       |                     |  |  |  |
|  |   |  |       |                     |  |  |  |

| 159. |   | If the C-effect is high, which of the following basis of selection is preferred? |      |                           |  |  |  |  |  |  |  |
|------|---|--|------|---------------------------|--|--|--|--|--|--|--|
|      | (A)   | Family selection   | (B)  | Within family selection   |  |  |  |  |  |  |  |
|      | (C)   | Pedigree selection   | (D)  | Individual selection      |  |  |  |  |  |  |  |
|      | (E)   | Answer not known   |      |                           |  |  |  |  |  |  |  |
| 160. | A selection which improves both GCA (General Combining Ability) and SCA (Specific Combining Ability) is |  |      |                           |  |  |  |  |  |  |  |
|      | (A)   | (A) Recurrent selection  |      |                           |  |  |  |  |  |  |  |
|      | (B)   | (B) Reciprocal recurrent selection   |      |                           |  |  |  |  |  |  |  |
|      | (C)   | Truncation selection   |      |                           |  |  |  |  |  |  |  |
|      | (D)   | Indirect selection   |      |                           |  |  |  |  |  |  |  |
|      | (E)   | Answer not known   |      |                           |  |  |  |  |  |  |  |
| 161. |   | number of nitrogenous bases of polypeptide chain is                              | in D | NA codes a specific amino |  |  |  |  |  |  |  |
|      | (A)   | 4  | (B)  | 2                         |  |  |  |  |  |  |  |
|      | (C)   | 3  | (D)  | 1                         |  |  |  |  |  |  |  |
|      | (E)   |  |      |                           |  |  |  |  |  |  |  |
| 162. |   | process of removal of non –<br>in the coding sequences of pre -                  |      |                           |  |  |  |  |  |  |  |
|      | (A)   | Splicing   | (B)  | Degeneration              |  |  |  |  |  |  |  |
|      | (C)   | Catalysis  | ` '  | Prouning                  |  |  |  |  |  |  |  |
|      | (E) Answer not known  |  |      |                           |  |  |  |  |  |  |  |
|      |   |  |      |                           |  |  |  |  |  |  |  |

| 163. | The             | e gene            | s conti  | rolling | the se | x – influenced trai         | t are locat | ed on |        |  |  |  |
|------|-----------------|-------------------|----------|---------|--------|-----------------------------|-------------|-------|--------|--|--|--|
|      | (i)             | Au                | tosome   | es      |        |                             |             |       |        |  |  |  |
|      | (ii)            | X –               | chrom    | osome   |        |                             |             |       |        |  |  |  |
|      | (iii)           | i) Y – chromosome |          |         |        |                             |             |       |        |  |  |  |
|      | (iv)            |                   |          |         |        |                             |             |       |        |  |  |  |
|      | ` /             |                   |          |         |        | ( <del>-</del> )            |             |       |        |  |  |  |
|      | (A)             | (i) a             | and (ii) | 1       |        | (B) (i) and                 | d (iii)     |       |        |  |  |  |
|      | (C)             | (i) a             | and (iv  | )       |        | (D) (i)                     |             |       |        |  |  |  |
|      | (E)             | Ans               | swer n   | ot knov | vn     |                             |             |       |        |  |  |  |
| 164. |                 |                   |          | ly the  |        | determination               | methods     | with  | their  |  |  |  |
|      | (a)             | XY r              | nethod   |         | 1.     | Boniellia viridis           |             |       |        |  |  |  |
|      | (b) ZW method   |                   |          | il.     | 2.     | Anasa tristis               |             |       |        |  |  |  |
|      | (c) Environment |                   |          | nt      | 3.     | Birds                       |             |       |        |  |  |  |
|      | (d)             | XO 1              | nethod   | l       | 4.     | Mammals                     |             |       |        |  |  |  |
|      |                 | (a)               | (b)      | (c)     | (d)    |                             |             |       |        |  |  |  |
|      | (A)             | 3                 | 4        | 2       | 1      |                             |             |       |        |  |  |  |
|      | (B)             | 4                 | 3        | 2       | 1      |                             |             |       |        |  |  |  |
|      | (C)             | 4                 | 3        | 1       | 2      |                             |             |       |        |  |  |  |
|      | (D)             | 3                 | 4        | 1       | 2      |                             |             |       |        |  |  |  |
|      | (E)             | Ans               | swer n   | ot knov | vn     |                             |             |       |        |  |  |  |
| 165. | _               | _                 |          |         |        | nd urea to cereal ectively. | fodders d   | uring | silage |  |  |  |
|      | (A)             | 1.0               | and 0.   | 5       |        | (B) 0.5 an                  | nd 1.0      |       |        |  |  |  |
|      | (C)             | 2.0               | and 1.   | 0       |        | (D) 1.0 ar                  | nd 2.0      |       |        |  |  |  |
|      | ` /             |                   |          | ot knov | vn     | . /                         |             |       |        |  |  |  |
|      |                 |                   |          |         |        |                             |             |       |        |  |  |  |

| 166. |  | quantity of fodder (kg) that caubic meter size during ensiling       |      | <del>-</del>          |  |  |  |  |  |
|------|--|--|------|-----------------------|--|--|--|--|--|
|      | (A)  | 1000   | (B)  | 2000                  |  |  |  |  |  |
|      | (C)  | 3000   | (D)  | 4000                  |  |  |  |  |  |
|      | (E)  | Answer not known   |      |                       |  |  |  |  |  |
| 167. | Major constraint in incorporation of cotton seed in the animal feed is the presence of |  |      |                       |  |  |  |  |  |
|      | (A)  | Tannin   | (B)  | Gossypol              |  |  |  |  |  |
|      | (C)  | Haemagglutinin   | (D)  | Ricin                 |  |  |  |  |  |
|      | (E)  | Answer not known   |      |                       |  |  |  |  |  |
| 168. | The is   | The wild animal requires arachidonic acid supplementation in feed is |      |                       |  |  |  |  |  |
|      | (A)  | Deer   | (B)  | Elephant              |  |  |  |  |  |
|      | (C)  | Fox  | (D)  | Tiger                 |  |  |  |  |  |
|      | (E)  | Answer not known   |      |                       |  |  |  |  |  |
| 169. | The  | aminoacid is deficiency will lea                                     | d to | death in wild cats is |  |  |  |  |  |
|      | (A)  | Lysine   | (B)  | Methionine            |  |  |  |  |  |
|      | (C)  | Arginine   | (D)  | Tryptophan            |  |  |  |  |  |
|      | (E)  |  |      |                       |  |  |  |  |  |

170. Assertion [A]: When hand, coarse or fibrous feeds are fed to poultry, grit is sometimes added to supply additional surface for grinding within gizzard.

Reason [R]: Poultry do not have teeth to grind and hard grain, most grinding takes place in the thick musculated gizzard.

- (A) [A] is true but [R] is false
- (B) Both [A] and [R] are true; and [R] is the correct explanation of [A]
- (C) [A] is false but [R] is true
- (D) Both [A] and [R] are true but [R] is not the correct explanation of [A] is correct
- (E) Answer not known
- 171. Match the following type: Match correctly the deficiency symptoms with corresponding vitamin deficiency:
  - (a) Goose step walk
- 1. Niacin Deficiency
- (b) Black tongue
- 2. Thiamin Deficiency
- (c) Curled-Toe Paralysis
- 3. Pantothenic acid Deficiency
- (d) Polyneuritis
- 4. Riboflavin Deficiency
- (a) (b) (c) (d)
- (A) 3 2 4 1
- (B) 3 1 4 2
- (C) 1 3 4 2
- (D) 2 3 4 1
- (E) Answer not known

172. Choose the right answer

As per BIS specifications, AIA level in type I cattle feeds

(A) Maximum 3%

(B) Minimum 3%

(C) Maximum 4%

- (D) Minimum 4%
- (E) Answer not known
- 173. Nitrate poisoning is related to which one of the following
  - (A) Vitamin

(B) Egg albumin

(C) Glucose

- (D) Haemoglobin
- (E) Answer not known
- 174. The crude protein content of cereal grains varies between
  - (A) 4-6%

(B) 8-12%

(C) 15-18%

- (D) 0-3%
- (E) Answer not known
- 175. Additional amount of DCP and TDN requirement for cattle and buffaloes of 350 kg to 500 kg body weight per day during last trimester of gestation (ICAR, 1998) is
  - (A) 90-130g DCP and 1.0-1.1 kg TDN
  - (B) 150-200g DCP and 1.5-2.0 kg TDN
  - (C) 50-100 g DCP and 0.75-1.0 kg TDN
  - (D) 50-100 g DCP and 2.0-2.5 kg TDN
  - (E) Answer not known

| 176. | Consider the following statements about the rumen environment of ruminants. |  |       |                             |  |  |  |  |
|------|---|--|-------|-----------------------------|--|--|--|--|
|      | (i)   | The liquid phase of rumen content has a pH between 4.8 to 5.8 under normal physiological condition.                                  |       |                             |  |  |  |  |
|      | (ii)  | (ii) The pH of reticulo rumen is maintained at fairly constant level by the alkalinity of large volume of saliva entering the rumen. |       |                             |  |  |  |  |
|      | (iii)   | (iii) The pH of rumen may rise to pH 7.5 or more on intake as very poor roughage by ruminants.                                       |       |                             |  |  |  |  |
|      | (A)   | (i) and (ii) only  | (B)   | (ii) and (iii) only         |  |  |  |  |
|      | (C)   | (i) and (iii) only   | (D)   | (i), (ii) and (iii)         |  |  |  |  |
|      | (E)   | Answer not known   |       |                             |  |  |  |  |
| 177. |   | is an indication of second during the preparation of second  |       |                             |  |  |  |  |
|      | (A)   | Protease activity  | (B)   | Urease activity             |  |  |  |  |
|      | (C)   | Protein content  | (D)   | Colour                      |  |  |  |  |
|      | (E)   | Answer not known   |       |                             |  |  |  |  |
| 178. |   | level of urea added to impro<br>0 % Dm) is   | ove t | he nutritive value of straw |  |  |  |  |
|      | (A)   | 1%   | (B)   | 2%                          |  |  |  |  |
|      | (C)   | 3%   | (D)   | 4%                          |  |  |  |  |

(E)

Answer not known

| 179. | The complete feed block used for feeding of ruminants consist of                                 |                               |               |  |  |
|------|--|-------------------------------|---------------|--|--|
|      | (A)  | Roughages and concentrates of | only          |  |  |
|      | (B)  | Concentrates only             |               |  |  |
|      | (C)  | Molasses and minerals only    |               |  |  |
|      | (D)  | None of the above             |               |  |  |
|      | (E)  | Answer not known              |               |  |  |
| 180. | During feed processing, Gelatinization of starch occurs in                                       |                               |               |  |  |
|      | (A)  | Roasting                      | (B) Popping   |  |  |
|      | (C)  | Flaking                       | (D) Pelleting |  |  |
|      | (E)  | Answer not known              |               |  |  |
| 181. | Recommended moisture content (%) of grains for storage is  |                               |               |  |  |
|      | (A)  | 10                            | (B) 15        |  |  |
|      | (C)  | 20                            | (D) 25        |  |  |
|      | (E)  | Answer not known              |               |  |  |
| 182. | Supplementation of anionic salts to the cows during transition period helps in the prevention of |                               |               |  |  |
|      | (A)  | Milk fever                    | (B) Acidosis  |  |  |
|      | (C)  | Ketosis                       | (D) Bloat     |  |  |
|      | (E)  | Answer not known              |               |  |  |

| 183. | Increased incidence of milk fever is observed in feeding                  |   |                                |  |
|------|---|---|--------------------------------|--|
|      | (i)   | Alkaline diet   |                                |  |
|      | (ii)  | Excessive concentration of sodium and potassium in diet   |                                |  |
|      | (iii)   | Acid diet   |                                |  |
|      | (iv)  | Excessive concentration of chloride and sulfur in diet  |                                |  |
|      | (A)   | (i) is correct  | (B) (i) and (ii) are correct   |  |
|      | (C)   | (iii) is correct  | (D) (iii) and (iv) are correct |  |
|      | (E)   | Answer not known  |                                |  |
| 184. |   | ification of seed is recommented be fed during  Mid lactation period  Dry period  Pregnant cows nearing parture  Early lactation period  Answer not known | ded to prevent milk fever and  |  |
| 185. | The quantity of poultry meat production in the country during 2002-23 was |   |                                |  |
|      | (A)   | 3.995 million tonnes  | (B) 4.995 million tonnes       |  |
|      | (C)   | 3.77 million tonnes   | (D) 4.77 million tonnes        |  |
|      | (E)   | Answer not known  |                                |  |
|      |   |   |                                |  |

| 186. | The contribution of Desi Duck to the total egg production of India in 2022-23 was  |   |     |                    |  |
|------|--|---|-----|--------------------|--|
|      | (A)  | 0.14 %  | (B) | 0.74 %             |  |
|      | (C)  | 0.54 %  | (D) | 0.94 %             |  |
|      | (E)  | Answer not known  |     |                    |  |
| 187. | The  | The pre capita availability of eggs in India in 2022-23 was |     |                    |  |
|      | (A)  | 141 eggs per annum  | (B) | 171 eggs per annum |  |
|      | (C)  | 101 eggs per annum  | (D) | 191 eggs per annum |  |
|      | (E)  | Answer not known  |     |                    |  |
| 188. | As per the 20 <sup>th</sup> Quinquennial livestock census, the cattle population in the state of Tamil Nadu is ———— million. |   |     |                    |  |
|      | (A)  | 9.519   | (B) | 9.897              |  |
|      | (C)  | 9.951   | (D) | 9.195              |  |
|      | (E)  | Answer not known  |     |                    |  |
| 189. | The contribution of livestock sector to Tamil Nadu's Gross value added (GSVA) in terms of percentage in the year 2021-22 was |   |     |                    |  |
|      | (A)  | 7.38  | (B) | 4.68               |  |
|      | (C)  | 43.70   | (D) | 5.63               |  |
|      | (E)  | Answer not known  |     |                    |  |
|      |  |   |     |                    |  |

| 190. |   | Tamil Nadu livestock developments the year ———————————————————————————————————— | lopment agency was established<br>e Govt. of Tamil Nadu. |  |
|------|---|---|--|--|
|      | (A)   | 2000  | (B) 2020   |  |
|      | (C)   | 2002  | (D) 2022   |  |
|      | (E)   | Answer not known  |  |  |
| 191. | Which among the following establishment was abbreviated as 'VIF'?   |   |  |  |
|      | (A)   | A) Veterinary International Forum   |  |  |
|      | (B)   | Veterinary Incubation Foundation  |  |  |
|      | (C)   | Veterinary International Foundation   |  |  |
|      | (D)   | Veterinary Incubation Forum   |  |  |
|      | (E)   | Answer not known  |  |  |
| 192. | The contribution of Goat milk to the total milk production of the country during 2022-23 was  |   |  |  |
|      | (A)   | 3.30%   | (B) 4.10%  |  |
|      | (C)   | 3.80%   | (D) 4.30%  |  |
|      | (E)   | Answer not known  |  |  |
| 193. | According to the prevention of cruelty to draught and pack animals Rules, 1965, maximum load permitted to Horse, Vehicle fitted with pneumatic tyres is |   |  |  |
|      | (A)   | $500 \mathrm{\ kg}$   | (B) 650 kg   |  |
|      | (C)   | 700  kg   | (D) 750 kg   |  |
|      | (E)   | Answer not known  |  |  |
|      |   |   |  |  |

| 194. | In livestock enterprise, the analysis that determines the level at which the gains or losses are equal                          |                       |     |                     |
|------|---|-----------------------|-----|---------------------|
|      | (A)   | Benefit Cost Analysis | (B) | Break Even Analysis |
|      | (C)   | Financial Analysis    | (D) | Whole Farm Analysis |
|      | (E)   | Answer not known      |     |                     |
| 195. | The decline in value of assets of a farm over a period of time is called as   |                       |     |                     |
|      | (A)   | Depreciation          | (B) | Appreciation        |
|      | (C)   | Defamation            | (D) | Affirmation         |
|      | (E)   | Answer not known      |     |                     |
| 196. | The interest on fixed capital or normal rate of return on the farmer's owned money capital is classified as                     |                       |     |                     |
|      | (A)   | Explicit cost         | (B) | Variable cost       |
|      | (C)   | Implicit cost         | (D) | Production cost     |
|      | (E)   | Answer not known      |     |                     |
| 197. | In the economics of livestock enterprise, the value of return<br>foregone from the next best alternative activity is defined as |                       |     |                     |
|      | (A)   | Economic cost         | (B) | Implicit cost       |
|      | (C)   | Explicit cost         | (D) | Opportunity cost    |
|      | (E)   | Answer not known      |     |                     |
|      |   |                       |     |                     |

| 198. | The measure of capacity of the livestock project in terms of the rate at which it returns the capital is                     |   |               |  |  |
|------|--|---|---------------|--|--|
|      | (A)  | NPW                                     | (B) BCR       |  |  |
|      | (C)  | IRR                                     | (D) N/K ratio |  |  |
|      | (E)  | Answer not known                        |               |  |  |
| 199. | In the marketing functions, standardisation preceeds   |   |               |  |  |
|      | (A)  | Storage                                 | (B) Grading   |  |  |
|      | (C)  | Transportation                          | (D) Packaging |  |  |
|      | (E)  | Answer not known                        |               |  |  |
| 200. | The 'AGMARK' standards for livestock products like milk and ghee are assigned by the following institution of Govt. of India |   |               |  |  |
|      | (A)  | Bureau of Indian Standards              |               |  |  |
|      | (B)  | ISO                                     |               |  |  |
|      | (C)  | Directorate of Marketing and Inspection |               |  |  |
|      | (D)  | Agricultural Marketing Institute        |               |  |  |
|      | (E)  | Answer not known                        |               |  |  |