

**COMBINED TECHNICAL SERVICES EXAMINATION  
(NON-INTERVIEW POSTS)  
COMPUTER BASED TEST  
PAPER – II – CLINICAL PHARMACOLOGY  
(PG DEGREE STANDARD) (CODE: 352)**

1. Assertion [A] : Methotrexate is chosen as initial disease modifying therapy for Rheumatoid Arthritis

Reason [R] : Methotrexate has relatively rapid onset of action of 4-6 weeks

- (A) [A] is True but [R] is False
- (B)  Both [A] and [R] are True and [R] is the correct explanation of [A]
- (C) Both [A] and [R] are True and [R] is not the correct explanation of [A]
- (D) Both [A] and [R] are independently false statements
- (E) Answer not known

2. Which of the following statements are true about Allopurinol?

- (i) Allopurinol enhances the renal excretion of uric acid.
  - (ii) Allopurinol increases the effect of Mercaptopurine and cyclophosphamide.
  - (iii) Oxypurinol is an orphan drug used in case of Allopurinol Hypersensitivity.
- (A) (i) and (ii) only
  - (B)  (ii) and (iii) only
  - (C) (iii) only
  - (D) (ii) only
  - (E) Answer not known

3. Among the propionic acid derivatives which is more efficacious and better tolerated in anti inflammatory doses is
- (A) Ibuprofen
  - (B)  Naproxen
  - (C) Ketoprofen
  - (D) Flurbiprofen
  - (E) Answer not known
4. Drug commonly causing analgesic nephropathy is
- (A) Aspirin
  - (B)  Phenacetin
  - (C) Ibuprofen
  - (D) Phenylbutazone
  - (E) Answer not known
5. Nonsteroidal anti inflammatory drug with additional Chondro protective property is
- (A) Ketorolac
  - (B) Diclofenac
  - (C) Etodolac
  - (D)  Aceclofenac
  - (E) Answer not known

6. Drugs which increase level of theophylline include all except
- (A) Ciprofloxacin
  - (B) Erythromycin
  - (C) Cimetidine
  - (D)  Phenytoin
  - (E) Answer not known
7. Which antihistaminics used as appetite stimulant to promote weight gain?
- (A) Fexofenadine
  - (B)  Cypro Heptadine
  - (C) Pheninamine
  - (D) Promethazine
  - (E) Answer not known
8. Budesonide is a
- (A) Nonsteroidal anti inflammatory drug
  - (B) High ceiling diuretic
  - (C)  Inhaled corticosteroid
  - (D) Contraceptive
  - (E) Answer not known

9. Which is effective in aspirin induced asthma and exercise induced asthma is
- (A) Anticholinergics
  - (B) Corticosteroids
  - (C) ✓ Cys LT<sub>1</sub>, antagonist
  - (D)  $\beta_2$  agonist
  - (E) Answer not known
10. Assertion [A] : Selective short acting  $\beta_2$  adrenergic receptor agonists (SABA) should be used only as needed.
- Reason [R] : When used regularly, they may increase allergic response and airway inflammation.
- (A) [A] is True but [R] is False
  - (B) ✓ Both [A] and [R] are True and [R] is the correct explanation for [A]
  - (C) Both [A] and [R] are True and [R] is not the correct explanation for [A]
  - (D) Both [A] and [R] are false
  - (E) Answer not known
11. Drug induced acute muscle dystonia is promptly relieved by all except
- (A) Hydroxyzine
  - (B) Promethazine
  - (C) Diphenhydramine
  - (D) ✓ Cinnarizine
  - (E) Answer not known

12. Mechanism of actions of Orlistat include inhibition of
- (A)  Gastric and Pancreatic lipase
  - (B)   $\alpha$ -glucosidase
  - (C)  CB<sub>1</sub> receptor
  - (D)  CB<sub>2</sub> receptor
  - (E)  Answer not known
13. LSD which is a hallucinogen acts on which receptors?
- (A)  Agonist at 5HT<sub>1A</sub>, 5HT<sub>1B</sub>
  - (B)  Antagonist at 5HT<sub>2A</sub>, 2C
  - (C)  Partial Agonist at 5HT<sub>2A</sub>
  - (D)  Partial Agonist at 5HT<sub>1A</sub>, 5HT<sub>1B</sub>
  - (E)  Answer not known
14. Monoclonal antibody approved for the treatment of severe migraine.
- (A)  Omalizumab
  - (B)  Erenumab
  - (C)  Rituximab
  - (D)  Bevacizumab
  - (E)  Answer not known
15. Among the 5HT antagonists which has additional H<sub>1</sub> antihistaminics, anticholinergic and sedative properties
- (A)  Methysergide
  - (B)  Ketanserin
  - (C)  Ritanserin
  - (D)  Cyproheptadine
  - (E)  Answer not known

16. The antineoplastic and immunosuppressant drug which is dihydrofolate reductase inhibition
- (A) Vincristine
  - (B) ✓ Methotrexate
  - (C) Cyclophosphamide
  - (D) Adriamycin
  - (E) Answer not known
17. Triple therapy in organ transplantation includes the following drug except one
- (A) Cyclosporine
  - (B) MMF
  - (C) Prednisolone
  - (D) ✓ Methotrexate
  - (E) Answer not known
18. Which of the following one is Calcineurin inhibitors?
- (A) Azathioprine
  - (B) ✓ Cyclosporine
  - (C) Sirolimus
  - (D) Prednisolone
  - (E) Answer not known

19. The following are MTOR inhibitors except
- (A) Sirolimus
  - (B) ✓ Tacrolimus
  - (C) Temsirolimus
  - (D) Everolimus
  - (E) Answer not known
20. The following are the adverse effects of Tacrolimus except
- (A) Neurotoxicity
  - (B) Diabetes
  - (C) ✓ Ototoxicity
  - (D) Renal toxicity
  - (E) Answer not known
21. Each ml Antisnake venom neutralises, which of the following?
- (A) 0.06 mg of standard cobra venom
  - (B) ✓ 0.6 mg of Russells viper venom
  - (C) 0.06 mg of Russells viper venom
  - (D) 0.6 mg of standard krait venom.
  - (E) Answer not known
22. The perturris vaccine is a
- (A) Sub unit vaccine
  - (B) Recombinant vaccine
  - (C) ✓ Live attenuated vaccine
  - (D) Polysaccharide vaccine
  - (E) Answer not known



23. Rubella vaccine is used in
- (A) ✓ Girls from 1 year age to puberty
  - (B) Pregnancy
  - (C) Febrile illness
  - (D) Untreated tuberculosis
  - (E) Answer not known
24. Which is not a live vaccine?
- (A) Measles
  - (B) Rubella
  - (C) ✓ Influenza
  - (D) Varicella
  - (E) Answer not known
25. A 60 year old female came for routine checkup. Which of the following vaccine is not indicated in this patient?
- (A) ✓ Human papilloma vaccine
  - (B) Pneumococcal vaccine
  - (C) MMR vaccine
  - (D) Hepatitis B vaccine
  - (E) Answer not known
26. Which of the following mosquito repellent is not applied on clothes?
- (A) Citronella oil
  - (B) Permethrin
  - (C) ✓ Diethyl toluamide
  - (D) Lemon eucalyptus oil
  - (E) Answer not known

27. Which of the following statements are true about naloxone in morphine poisoning?

- (i) It has rapid onset of action
  - (ii) It stimulates respiration
  - (iii) It is suitable for opioid blockade therapy of post addicts
  - (iv) It has long duration of action
- (A)  (i) and (ii) only
- (B) (iii) and (iv) only
- (C) (i) and (iii) only
- (D) (ii) and (iv) only
- (E) Answer not known

28. Arsenic induces carcinogenesis by the following mechanism.

- (A) Metabolic activation to form DNA adducts
- (B)  Inhibition of DNA repair
- (C) Activation of the aryl hydrocarbon receptors
- (D) Activation of PKC isoforms
- (E) Answer not known

29. The following statement is incorrect about On-Target type of drug toxicity.

- (A) Occurs due to interaction of a drug and its primary target
- (B)  Not dose dependent
- (C) Not always specific to target tissue
- (D) Barbiturates binds to GABA-A receptors is an example
- (E) Answer not known

30. N acetyl cystine is beneficial in acute paracetamol poisoning because
- (A) It react with paracetamol to form a non toxic complex
  - (B) It inhibits generation of the toxic metabolite of paracetamol
  - (C) It is a free radical scavenger
  - (D) ✓ It replenishes hepatic glutathione which in turn binds the toxic metabolite of paracetamol
  - (E) Answer not known
31. Milk and Roses complexion of skin due to
- (A) Chronic lead poisoning
  - (B) Chronic mercurial poisoning
  - (C) ✓ Chronic inorganic arsenic poisoning
  - (D) Chronic copper poisoning
  - (E) Answer not known
32. The toxic dose of Iron which leads to serious toxicity is
- (A) 40 – 50 mg/Kg
  - (B) ✓ 60 – 70 mg/Kg
  - (C) 30 – 40 mg/Kg
  - (D) 50 – 60 mg/Kg
  - (E) Answer not known

33. All of the following are TRUE regarding calcium disodium edetate EXCEPT :
- (A) It is administered parenterally
  - (B)  It is effective in chronic lead poisoning
  - (C) It is nephro toxic
  - (D) It does not enter the brain
  - (E) Answer not known
34. Which of the following is a sensitive indicator of lead toxicity?
- (A)  Wrist drop
  - (B) "Rice Water" stools
  - (C) Milk and rose complexion
  - (D) Odor of bitter almonds
  - (E) Answer not known
35. Inert substances which sooth inflamed mucosa or skin by preventing contact with air in the surroundings.
- (A) Emollients
  - (B) Irritants
  - (C)  Demulcents
  - (D) Astringents
  - (E) Answer not known

36. Match the drugs with their indications.

- |                  |              |
|------------------|--------------|
| (a) Adapalene    | 1. Melasma   |
| (b) Hydroquinone | 2. Psoriasis |
| (c) Acitretin    | 3. Acne      |
| (d) Methoxsalen  | 4. Vitiligo  |

- |       | (a)              | (b) | (c) | (d) |
|-------|------------------|-----|-----|-----|
| (A)   | 4                | 3   | 1   | 2   |
| (B)   | 2                | 4   | 3   | 1   |
| (C)   | 1                | 3   | 4   | 2   |
| (D) ✓ | 3                | 1   | 2   | 4   |
| (E)   | Answer not known |     |     |     |

37. Topical antibiotic used in the treatment of acne

- (A) Clarithromycin
- (B) ✓ Clindamycin
- (C) Sulfasalazine
- (D) Mupirocin
- (E) Answer not known

38. Which of the following drug is not used as adjunct in vitiligo therapy and drug induced phototoxicity?

- (A) PABA and its esters
- (B) Benzophenones
- (C) Cinnamates
- (D) ✓ Benzoylperoxide
- (E) Answer not known

39. Which of the following antiseptic is not an oxidising agent?
- (A) Potassium Permanganate
  - (B) Hydrogen Peroxide
  - (C) Benzoyl Peroxide
  - (D) ✓ Chlorhexidine
  - (E) Answer not known
40. Triamcinolone is applied topically for
- (A) Comedonal Acne
  - (B) Pustular Acne
  - (C) ✓ Cystic Acne
  - (D) Nodular Acne
  - (E) Answer not known
41. Nitrates are not recommended to be used in one of the following condition
- (A) Congestive heart failure
  - (B) Cyanide poisoning
  - (C) Esophageal spasm
  - (D) ✓ Renal colic
  - (E) Answer not known
42. Nitrates, a class of Anti Anginal drug is used in treatment of cyanide poisoning :
- During the course of treatment it forms :
- (A) ✓ Methaemoglobin
  - (B) Hemoglobin
  - (C) Oxy hemoglobin
  - (D) Carbamino hemoglobin
  - (E) Answer not known

43. The following calcium channel blockers are most lipophilic and hence most potent
- (A) Phenyl alkylamines
  - (B) Benzo thiazepines
  - (C)  Dihydro pyridines
  - (D) All of the above
  - (E) Answer not known
44. A 62 years old man with ischemic heart disease complains of angina pain that worsens over the past 30 minutes despite NTG. The best course of action is
- (A) Change NTG to a longer acting nitrate
  - (B) Initiate metoprolol
  - (C) Initiate Ranolazine
  - (D)  Refer him to the nearest emergency department for immediate evaluation
  - (E) Answer not known
45. Ivabradine is useful in the following conditions except
- (A) Stable Angina
  - (B) Sinus Tachycardia
  - (C)  Sinus Bradycardia
  - (D) Heart failure is diastolic dysfunction
  - (E) Answer not known
46. The Beta blocker with additional antioxidant property is
- (A) Nebivolol
  - (B) Celiprolol
  - (C)  Carvedilol
  - (D) Bisoprolol
  - (E) Answer not known

47. The following anti hypertensive drugs are contraindicated in pregnancy
- (A) Alpha methyl dopa                      (B)  Enalapril  
(C) Nife dipine                                (D) Labetalol  
(E) Answer not known
48. Drug of choice in a hypertensive patient with Diabetes
- (A) Beta blockers                              (B) Diuretics  
(C)  ACE inhibitors                              (D) Vaso dilators  
(E) Answer not known
49. Which group of drug produce dramatic improvement and life saving in Scleroderma crisis?
- (A)  $\alpha$  Blockers                                (B)  ACE inhibitors  
(C)  $\beta$  Blockers                                  (D) Calcium channel blockers  
(E) Answer not known
50. Clonidine is not useful in one of the following conditions
- (A) Opioid withdrawal  
(B) Hypertension  
(C)  Heart failure  
(D) Diabetic neuropathy – Autonomic diarrhea  
(E) Answer not known
51. Which of the following is not a PDE-3 inhibitor?
- (A) Cilostazol                                      (B) Amrinone  
(C) Milrinone                                      (D)  Pentoxifylline  
(E) Answer not known



52. Metabolic abnormality which may precipitate Digitalis toxicity include
- (A) Hypocalcemia (B) Hyper Magnesemia  
(C)  Hypokalemia (D) Hyper Natremia  
(E) Answer not known
53. The following agents are inodilator except one
- (A) Inamrinone (B) Milrinons  
(C) Levosimenden (D)  Nesiritide  
(E) Answer not known
54. Which one of the following statements about nesiritide is wrong?
- (A) It is a recombinant BNP  
(B) It enhances salt and water excretion  
(C)  It can be administered orally  
(D) It can be used in decompensated CHF  
(E) Answer not known
55. Digoxin does not have drug interactions with
- (A)  Amlodipine (B) Quinidine  
(C) Thiazide diuretics (D) Antacids  
(E) Answer not known

56. Select the correct statements about antiarrhythmic drugs.
- (i)  $\beta$  blockers are useful in stress induced tachycardias
  - (ii) Amiodarone reaches steady state concentrations after several months of treatment
  - (iii) Adenosine is effective in treatment of ventricular tachycardia
- (A)  (i) and (ii) only                      (B) (i) only  
(C) (i) and (iii) only                      (D) (i), (ii) and (iii) only  
(E) Answer not known
57. Which antiarrhythmic drug is metabolized by acetylation?
- (A) Disopyramide                      (B)  Procainamide  
(C) Quinidine                      (D) Lignocaine  
(E) Answer not known
58. Which drug can be used to counteract the digitalis induced ventricular tachycardia?
- (A) Atropine                      (B)  Lidocaine  
(C) Amiodarone                      (D) Quinidine  
(E) Answer not known
59. The following drugs prolong QT interval except one
- (A) Cisapride                      (B) Thioridazine  
(C) Quinidine                      (D)  Cinitapride  
(E) Answer not known

60. Which drug produce corneal micro deposits as a side effect?
- (A) Esmolol (B)  Amiodarone  
(C) Adenosine (D) Bretylium  
(E) Answer not known
61. Mechanism of action of  $\beta$  blockers in glaucoma is
- (A)  $\beta_2$  agonism  $\rightarrow$   $\downarrow$  in cAMP  
(B)   $\beta_2$  blockade  $\rightarrow$   $\downarrow$  in cAMP  
(C)  $\beta_2$  agonism  $\rightarrow$   $\uparrow$  in cAMP  
(D)  $\beta_2$  blockade  $\rightarrow$   $\uparrow$  in cAMP  
(E) Answer not known
62. The following drugs are used for rapid reduction of intraocular pressure in Angle closure glaucoma Except
- (A) 20% Mannitol (B) 10% Glycerol  
(C)  Frusemide (D) Acetazolamide  
(E) Answer not known
63. A serious adverse effect of Prostaglandin analogues seen especially in Aphasic patients is
- (A) Pupillary dilatation (B)  Macular Edema  
(C) Hyperemia (D) Loss of accommodation  
(E) Answer not known

64. Following are the advantages of using topical  $\beta$  blockers over miotics except
- (A) Myopia not induced in young patients
  - (B)  Change in pupil size
  - (C) Intra ocular tension fluctuations are absent
  - (D) Diminution of vision in dim light is absent
  - (E) Answer not known
65. Increased iris pigmentation and darkening of eyelashes is observed with
- (A) Dorzolamide
  - (B) Dipivefrine
  - (C)  Latanoprost
  - (D) Betaxolol
  - (E) Answer not known
66. Spinal anaesthesia is not suitable for
- (A) LSCS
  - (B) Prostatectomy
  - (C)  Operations on mentally ill patients
  - (D) Operations on the lower limbs
  - (E) Answer not known
67. In spinal anaesthesia the drug is deposited between
- (A) Dura and Arachnoid
  - (B) Into the cord substance
  - (C) Dura and Vertebra
  - (D)  Pia and arachnoid
  - (E) Answer not known

68. The neuromuscular blocker that does not need reversal of action by Neostigmine at the end of the operation is
- (A) d – tubocurarine (B) Doxacurium  
(C) Pipecuronium (D)  Mivacurium  
(E) Answer not known
69. The drug having curare like effect are all except
- (A)  Chloramphenicol (B) Polymyxin  
(C) Streptomycin (D) Tetracycline  
(E) Answer not known
70. The local anaesthetics fails to afford pain control in inflammed tissue and the reason is
- (A) inflammation increase pH of the tissue  
(B) blood flow to the inflammed area decreased  
(C)  effectives of adrenaline injected with the LA is reduced at the inflammed site  
(D) Inflammatory products may enhance LA action  
(E) Answer not known
71. The following drugs are used for overactive bladder except
- (A)  Duloxetine (B) Darifenacin  
(C) Oxybutynin (D) Flavoxate  
(E) Answer not known

72. The active transport of acetylcholine into synaptic vesicles is blocked by
- (A) Hemicholinium (B)  Vesamicol  
(C) Hexamethonium (D) Atropine  
(E) Answer not known
73. A 35 yr old man was found unconsciousness, examination revealed bilateral constricted pupils, bradycardia excessive sweating and secretion. Most likely cause is
- (A) Opium poisoning  
(B) Pontine hemorrhage  
(C) Acute alcohol intoxication  
(D)  Organo phosphate poisoning  
(E) Answer not known
74. Which of the following drug is used for early mushroom poisoning?
- (A)  Atropine (B) Physostigmine  
(C) Adrenaline (D) Carbachol  
(E) Answer not known
75. Which of the following mydriatics has the quickest and briefest action?
- (A) Atropine (B) Homatropine  
(C)  Tropicamide (D) Cyclopentolate  
(E) Answer not known

76.  $\beta$ -blocker preferred in clonidine withdrawal and preeclampsia
- (A) Carvedilol (B) Metoprolol  
(C)  Labetalol (D) Bisoprolol  
(E) Answer not known
77. All of the following are true about Ephedrine except
- (A) It is obtained from Ephedra vulgaris  
(B) Mixed sympathomimetic amine ( $\alpha + \beta$  action)  
(C) Central : peripheral activity ratio is lower than amphetamine  
(D)  It is used in management of hypertension  
(E) Answer not known
78. The indirect sympathomimetic agent is
- (A) Salbutamol (B)  Amphetamine  
(C) Adrenaline (D) Isoprenaline  
(E) Answer not known
79. Mydriatic which does not cause cycloplegia is
- (A) Tropicamide (B) Atropine  
(C) Homatropine (D)  Phenylephrine  
(E) Answer not known
80. Which Beta 1 selective blocker is used in Glaucoma?
- (A) Levobunolol (B) Timolol  
(C)  Betaxolol (D) Carteolol  
(E) Answer not known

81. The macrolide antibiotic with significant activity against *M. Leprae*
- (A) Erythromycin (B) Azithromycin  
(C) ✓ Clarithromycin (D) Roxithromycin  
(E) Answer not known
82. The following antibiotic penetrates blood-brain barrier, crosses placenta
- (A) Erythromycin (B) Gentamicin  
(C) Tetracycline (D) ✓ Chloramphenicol  
(E) Answer not known
83. The most important mechanism by which tetracycline antibiotics exert anti-microbial action is
- (A) They chelate  $\text{Ca}^{2+}$  ions and alter permeability of bacterial cell membrane  
(B) ✓ They bind to 30S ribosomes and inhibit bacterial protein synthesis  
(C) They bind to 50S ribosomes and interfere with translocation of the growing peptide chain in the bacteriae  
(D) They interfere with DNA mediated RNA synthesis in bacteria  
(E) Answer not known
84. The most important adverse effect of Isoniazid is
- (A) Bone marrow depression (B) Hypersensitivity reaction  
(C) ✓ Peripheral neuritis (D) Super infections  
(E) Answer not known



85. Identify the sulfonamide whose sodium salt yields a nearly neutral solution which is suitable for topical use in ocular infection.
- (A) Sulfadiazine (B)  Sulfacetamide  
(C) Sulfadoxine (D) Sulfamethoxazole  
(E) Answer not known
86. Metabolic abnormality caused by amphotericin B is
- (A)  Hypokalemia (B) Hyperkalaemia  
(C) Hypermagnesemia (D) Hyponatremia  
(E) Answer not known
87. Visual disturbances are more common with this antifungal agent
- (A)  Voriconazole (B) Terbinafine  
(C) Posaconazole (D) Econazole  
(E) Answer not known
88. All of the following are false about Ketoconazole (KT2) except
- (A) Ketoconazole induces CYP450 enzyme  
(B)  High dose Ketoconazole is used in Cushing's syndrome  
(C) Causes dose dependent increase in serum hydrocortisone  
(D) Oral absorption of KT2 is inhibited by gastric acidity  
(E) Answer not known
89. The most important toxicity of Amphotericin B is
- (A)  Nephrotoxicity (B) Neurotoxicity  
(C) Hepatotoxicity (D) Bone marrow depression  
(E) Answer not known

90. *Streptomyces nodosus*, produces an Antifungal polyene antibiotic
- (A) ✓ Amphotericin B (AMB)                      (B) Clotrimazole  
(C) Griseofulvin                                      (D) Tolnaftate  
(E) Answer not known
91. The major toxicity of topotecan used in metastatic carcinoma of ovary
- (A) Stomatitis    (B) Cardiac arrhythmias  
(C) ✓ Bone marrow depression                      (D) Haemorrhage  
(E) Answer not known
92. Which of the following anticancer drugs can cross Blood Brain barrier?
- (A) Cisplatin    (B) ✓ Nitrosoureas  
(C) Methotrexate    (D) Irinotecan  
(E) Answer not known
93. The Mechanism of action of Thiotepa (Thio-Tepa) is
- (A) ✓ By producing highly reactive carbonium ion  
(B) Folate inhibition  
(C) Metaphase arrest  
(D) Inhibition of topoisomerase-2  
(E) Answer not known
94. Methotrexate is an Anticancer agent, which acts as
- (A) Purine Antagonist                                      (B) ✓ Folate antagonist  
(C) Pyrimidine antagonist                                      (D) Alkylating agent  
(E) Answer not known

95. A patient on treatment with Allopurinol requires dose reduction of
- (A) Cyclophosphamide
  - (B)  6-Mercaptopurine
  - (C) 6-Thioguanine
  - (D) Cimetidine
  - (E) Answer not known
96. All are true about Telbivudine except
- (A) Anti-Hepatitis B virus drug
  - (B) Thymidine nucleoside analogue
  - (C)  Bioavailability is affected by food
  - (D) Average plasma  $t_{1/2}$  is 15 hours
  - (E) Answer not known
97. All of the following are true about Anti-Influenza virus drugs except
- (A) Oseltamivir may not be effective in infants
  - (B) Amantadine is used in management of Parkinsonism
  - (C)  Zanamavir can be safely used in Asthmatics
  - (D) Oseltamivir is the prodrug
  - (E) Answer not known
98. Idoxuridine is indicated in treatment of:
- (A)  Herpes simplex keratitis
  - (B) Herpes zoster
  - (C) Hepatitis B
  - (D) Mycoplasma pneumonia
  - (E) Answer not known

99. The nucleoside reverse transcriptase inhibitor which is best tolerated and also active against hepatitis B virus is
- (A) Didanosine (B) Zidovudine  
(C) Stanadyne (D) ✓ Lamivudine  
(E) Answer not known
100. Acyclovir is used to treat viruses that belong to the class
- (A) Retro virus (HIV) (B) Influenza – A like virus  
(C) Hepatitis B virus (D) ✓ Herpes virus  
(E) Answer not known
101. Mifepristone possesses the following activities
- (A) Potent antiprogesterin + Weak androgenic  
(B) ✓ Potent antiprogesterin + Weak antiglucocorticoids  
(C) Potent antiestrogenic + Weak antiprogesterin  
(D) Potent antiestrogenic + Weak glucocorticoids  
(E) Answer not known
102. Choose the PDE-5 inhibitor used in male erectile dysfunction with onset of effect in 15-30 minutes.
- (A) Tadalafil (B) Udenafil  
(C) ✓ Avanafil (D) Vardenafil  
(E) Answer not known

103. Match female sex hormones, modulator and antagonist to uses.

- |                 |                                |
|-----------------|--------------------------------|
| (a) Clomiphene  | 1. Carcinoma breast            |
| (b) Anastrozole | 2. Postmenopausal osteoporosis |
| (c) Ulipristal  | 3. Induction of ovulation      |
| (d) Raloxifene  | 4. Emergency contraception     |

- |       | (a)              | (b) | (c) | (d) |
|-------|------------------|-----|-----|-----|
| (A)   | 1                | 2   | 3   | 4   |
| (B)   | 2                | 3   | 4   | 1   |
| (C) ✓ | 3                | 1   | 4   | 2   |
| (D)   | 4                | 3   | 2   | 1   |
| (E)   | Answer not known |     |     |     |

104. Choose the correct statement on sex hormone

- (A) ✓ Gonadotropins release in pulsatile manner
- (B) Inhibin increases FSH secretion
- (C) Activin reduces FSH secretion
- (D) Oestrogen promotes GNRH release
- (E) Answer not known

105. A suitable estrogen synthesis inhibitor is

- |                      |                  |
|----------------------|------------------|
| (A) Trilostane       | (B) ✓ Letrozole  |
| (C) Metyrapone       | (D) Mifepristone |
| (E) Answer not known |                  |

106. Nafarelin is useful in all except

- (A)  Osteoporosis
- (B) Endometriosis
- (C) Assisted reproduction
- (D) Central precocious puberty
- (E) Answer not known

107. The following adverse effect of corticosteroid is mainly due to their mineralocorticoid action

- (A) Osteoporosis
- (B) Hyperglycemia
- (C) Moon face
- (D)  Rise in BP
- (E) Answer not known

108. Mecasermin is

- (A)  rhIGF-1
- (B) GH inhibitors
- (C) GnRH agonist
- (D) GnRH antagonist
- (E) Answer not known

109. Choose the correct statement about carbimazole

- (A) ✓ It induces improvement in thyrotoxic symptoms after 1-4 week therapy
- (B) Control of thyrotoxic symptoms with carbimazole is accompanied by enlargement of thyroid gland
- (C) It is long term used in Graves disease leads to thyroid escape
- (D) It mitigates thyrotoxic symptoms with out lowering serum thyroxine levels
- (E) Answer not known

110. Which symptom indicates toxicity of Levothyroxine?

- (A) Weight gain
- (B) Bradycardia
- (C) ✓ Nervousness
- (D) Cold intolerance
- (E) Answer not known

111. All the following drugs should be used with caution when the patient is on insulin therapy EXCEPT

- (A) Lithium
- (B) ✓ Prazosin
- (C) Theophylline
- (D) Aspirin
- (E) Answer not known

112. The following are the drugs that inhibit insulin release except

- (A) Phenytoin
- (B) Colchicine
- (C) Diazoxide
- (D) ✓ Acetylcholine
- (E) Answer not known

113. The following drug stimulates the 1<sup>st</sup> phase of insulin secretion by closing  $\beta$  cell  $K_{ATP}$  channels
- (A) Metformin
  - (B)  Nateglinide
  - (C) Glibenclamide
  - (D) None of the above
  - (E) Answer not known
114. Which drug after once daily dosing produces round-the-clock glucosuria and lower blood glucose level, reduces HbA1c level by 0.5-1.0%?
- (A)  Dapagliflozin
  - (B) Colesevelam
  - (C) Voglibose
  - (D) Pioglitazone
  - (E) Answer not known
115. In Diabetic ketoacidosis, the insulin preparation of choice is
- (A)  Regular insulin
  - (B) Ultralente insulin
  - (C) NPH insulin
  - (D) Tolbutamide
  - (E) Answer not known



116. Drug of choice for eclampsia

- (A) Nifedipine
- (B) Ritodrine
- (C) ✓ Magnesium sulphate
- (D) Progestin
- (E) Answer not known

117. Atosiban

- (A) ✓ Is an oxytocin receptor antagonist
- (B) Is an progesterone receptor antagonist
- (C) Is a selective estrogen receptor modulator
- (D) Is a antitocolytic drug
- (E) Answer not known

118. The following PGs are oxytocin except

- (A) PGE<sub>2</sub>
- (B) ✓ PGI<sub>2</sub>
- (C) PGF<sub>2α</sub>
- (D) 15 methyl PGF<sub>2α</sub>
- (E) Answer not known

119. Ergometrine is contraindicated in the following condition except

- (A) Toxaemia
- (B) Hypertension
- (C) Sepsis
- (D) ✓ Multiparity
- (E) Answer not known

120. A prostaglandin analogues that reduces gastric acid secretion is
- (A) Omeprazole
  - (B) Cimetidine
  - (C)  Misoprostol
  - (D) Ranitidine
  - (E) Answer not known
121. Which one is act through transmembrane Jak – Stat binding receptor?
- (A) Insulin
  - (B) Estrogen
  - (C)  Growth Hormone
  - (D) Thyroxine
  - (E) Answer not known
122. Which one is not a prodrug?
- (A) Acyclovir
  - (B)  Captopril
  - (C) Levodopa
  - (D) Clopidogrel
  - (E) Answer not known
123. Mostly commonly used propellant in pressurized metered dose inhaler is
- (A) Hydro fluoro butane
  - (B) Hydro fluoro propane
  - (C) Hydro fluoro methane
  - (D)  Hydro fluoro alkane
  - (E) Answer not known

124. The extent of distribution of a drug does not depend on

- (A)  Lipid insolubility
- (B) Ionization at physiological pH
- (C) Extent of plasma protein binding
- (D) Regional blood flow differences
- (E) Answer not known

125. Placebo means

- (A) I shall die
- (B) I shall not please
- (C)  I shall please
- (D) I shall kill
- (E) Answer not known

126. The dosage of following drugs has to be reduced in renal failure except

- (A) Aminoglycosides
- (B) Cephalixin
- (C) Vancomycin
- (D)  Pricillin
- (E) Answer not known

127. Ame's test is done to assess \_\_\_\_\_ of a drug.

- (A)  Mutagenicity
- (B) Carcinogenicity
- (C) Teratogenicity
- (D) Chronic toxicity
- (E) Answer not known

128. Many large scale trials are subjected to interim analysis from time to time by ————— as the trial progresses.
- (A) Hospital committee                      (B) Sponsor  
(C) Investigator                              (D)  Independent committee  
(E) Answer not known
129. As per the ethics committee the study does not breach the principles of
- (A) Autonomy only  
(B) Beneficence and Non – Maleficence  
(C) Non – Maleficence  
(D)  Autonomy, Beneficence, Non – Maleficence  
(E) Answer not known
130. Prescription event monitoring is a
- (A) Meta analytic study  
(B) Case control study  
(C) Randomized controlled study  
(D)  Cohort study  
(E) Answer not known
131. All are examples of drugs causing hemolysis in 4–6–P, D.Deficiency except
- (A) Menadione  
(B) Methylene blue  
(C) Nalidixic acid  
(D)   $\alpha$  – Methyl dopa  
(E) Answer not known

132. The orphan drug is

- (A)  Rituximab (B) Rifampicin  
(C) Rifabutin (D) Risperidone  
(E) Answer not known

133. What is pharmacogenomics?

- (A) D.N.A splitting  
(B) R.N.A Splitting  
(C)  Use of genetic information for drug choice  
(D) Use of genetic information to stop drug  
(E) Answer not known

134. Which one of the schedule drug is over the counter drugs?

- (A)  Schedule H (B) Schedule C  
(C) Schedule F (D) Schedule E<sub>1</sub>  
(E) Answer not known

135. Any untoward medical occurrence that may be present during treatment with a medicine, but which does not necessarily have a causal relationship with the treatment

- (A) Adverse drug reaction (B)  Adverse drug event  
(C) Bizarre reactions (D) Augmented reactions  
(E) Answer not known

136. Aspirin decreases the tubular secretion of

- (A) Probenicid (B) Penicillin  
(C)  Methotrenate (D) 5 – Mercaptopurines  
(E) Answer not known

137. All of the following are true about serotonin syndrome except
- (A) Serotonin syndrome occurs when SSR's are administered with tramadol
  - (B) ✓ Risk of switching over to hypomania during treatment is high with SSR's than TCA's
  - (C) Nor – pethidine is a minor metabolite of co-administration of MAOI and pethidine
  - (D) Serotonin syndrome is characterised by rigidity followed by convulsion
  - (E) Answer not known

138. Nicotinic acid and statins cause

- (A) ↑ Coagulopathy
- (B) ↓ Myopathy
- (C) ✓ ↑ Myopathy
- (D) ↓ Coagulopathy
- (E) Answer not known

139. Drugs highly bound to albumin are all except

- (A) Barbiturates
- (B) Tolbutamide
- (C) Warfarin
- (D) ✓ Verapamil
- (E) Answer not known

140. A highly ionized drug

- (A) ✓ Is excreted mainly by the kidney
- (B) Can cross the placental barrier easily
- (C) Is well absorbed from the intestine
- (D) Accumulates in the cellular lipids
- (E) Answer not known

141. All the following are orally acting anticoagulants except
- (A) Dabigatran
  - (B) Rivaroxaban
  - (C) Apixaban
  - (D)  Fondaparinux
  - (E) Answer not known
142. Which one of the following is used as invitro anticoagulant?
- (A) Phenindione
  - (B) Vit. K
  - (C)  Heparin
  - (D) Desmopressin
  - (E) Answer not known
143. Blood level of which clotting factor declines most rapidly after initiation of warfarin therapy.
- (A)  Factor VII
  - (B) Factor IX
  - (C) Factor X
  - (D) Prothrombin
  - (E) Answer not known
144. Vit K is indicated for the treatment of bleeding occuring in patients
- (A) Being treated with heparin
  - (B) Being treated with streptokinase
  - (C)  Of obstructive jaundice
  - (D) Of peptic ulcer
  - (E) Answer not known

145. Assertion [A] : Patients who fail to achieve therapeutic aPTT with daily dose of heparin 35,000 units or more could be due to heparin resistance.

Reason [R] : Resistance occurs because of proteins competing with antithrombin for heparin binding or antithrombin deficiency

- (A)  Both [A] and [R] are true and [R] is the correct statement for [A]
- (B) [A] is true but [R] is false
- (C) [A] is false but [R] is true
- (D) Both [A] and [R] are true but [R] is not the correct statement for [A]
- (E) Answer not known

146. Which is the new convenient and safe Iron preparation with Iron bound to an oligosaccharide?

- (A)  Iron isomaltoside
- (B) Iron dextran
- (C) Ferrous sucrose
- (D) Ferric hydroxide polymaltose
- (E) Answer not known

147. The drug that causes megaloblastic anemia by interfering with pyrimidine synthesis is

- (A) Tetracycline
- (B)  Leflunomide
- (C) Nitrofurantoin
- (D) Allopurinol
- (E) Answer not known



148. Which of the following iron formulation and route of administration is correctly paired?

- (i) Iron-dextran – IM, IV
- (ii) Iron sucrose – IV
- (iii) Iron sorbitol – IM
- (iv) Sodium ferric gluconate – IM
- (A) (i), (ii) and (iv) only (B) (ii) and (iii) only
- (C) (i) and (ii) only (D) ✓ (i), (ii) and (iii) only
- (E) Answer not known

149. Pick out the correct statements

- (i) Ferrous gluconate contains less elemental iron
- (ii) Ferrous fumarate has similar effectiveness and tolerability to ferrous sulfate
- (iii) Ferric ammonium citrate less bioavailable than ferrous salts.
- (A) (i) and (iii) only (B) (iii) only
- (C) ✓ (i), (ii) and (iii) only (D) (ii) and (iii) only
- (E) Answer not known

150. The hypothesis that there was an extrinsic factor present in the diet required for hemopoietic principle was propounded by

- (A) Thomas Addison (B) Minor and Murphy
- (C) ✓ Castle (D) Mc Lean
- (E) Answer not known

151. Assertion [A] : Epoprostenol has a very short half life of 3 minutes.

Reason [R]: It is significantly metabolised in the lung.

- (A) Both [A] and [R] are false statements
- (B) ✓ [A] is true but [R] is false
- (C) [A] is false but [R] is true
- (D) Both [A] and [R] are true but [R] is not the correct explanation for [A]
- (E) Answer not known

152. A patient has an episode of hematemesis following streptokinase infused for the treatment of deep vein thrombosis. Which of the following drugs would be most effective in controlling the bleeding episode?

- (A) Vitamin K
- (B) Nor adrenaline
- (C) ✓ Epsilon aminocaproic acid
- (D) Rectin
- (E) Answer not known

153. Newer P2Y<sub>12</sub> inhibitor approved for parenteral use in coronary intervention is

- (A) Clopidogrel
- (B) Ticagrelor
- (C) ✓ Cangrelor
- (D) Prasugrel
- (E) Answer not known

154. The following drug increases cyclic AMP in platelets and inhibits their aggregation without altering levels of thromboxane A<sub>2</sub> or prostacyclin

- (A) Aspirin
- (B) Sulfinpyrazone
- (C)  Dipyridamole
- (D) Abciximab
- (E) Answer not known

155. The integrin receptor which binds to Von Willebrand factor following damage to vascular endothelium is

- (A) Gp I<sub>a</sub>
- (B)  Gp I<sub>b</sub>
- (C) Gp II<sub>a</sub>/I<sub>c</sub>
- (D) Gp II<sub>b</sub>/III<sub>a</sub>
- (E) Answer not known

156. Which of the following is not an indication for carbonic anhydrase inhibitor diuretic?

- (A) Urinary alkalization
- (B) Glaucoma
- (C)  Metabolic acidosis
- (D) Acute mountain sickness
- (E) Answer not known

157. Anti-TNF antibodies used in inflammatory bowel disease used intravenously

- (A) Adalimumab
- (B) Certolizumab
- (C)  Infliximab
- (D) Golimumab
- (E) Answer not known

158. 5HT<sub>3</sub> receptor antagonist which is not used as antiemetic is

- (A) Palonosetron (B) Ramosetron  
(C)  Alosetron (D) Dolasetron  
(E) Answer not known

159. The novel plasma glucose as well as rapid lowering drug is

- (A) Ezetimibe (B) Laropiprant  
(C) Sitagliptin (D)  Saroglitazar  
(E) Answer not known

160. Match the following :

- |                                 |                 |
|---------------------------------|-----------------|
| (a) HMGCoA reductase inhibitor  | 1. Fenofibrate  |
| (b) PPAR and activator          | 2. Evolocumab   |
| (c) Sterol absorption inhibitor | 3. Rosuvastatin |
| (d) PCSK9 inhibitor             | 4. Ezetimibe    |

- |   | (a)              | (b) | (c) | (d) |
|---|------------------|-----|-----|-----|
| (A)                                     | 2                | 4   | 1   | 3   |
| (B) <input checked="" type="checkbox"/> | 3                | 1   | 4   | 2   |
| (C)                                     | 3                | 4   | 2   | 1   |
| (D)                                     | 2                | 1   | 4   | 3   |
| (E)                                     | Answer not known |     |     |     |

161. Choose the correct statements about Valproic acid

- (i) Valproate induces drug metabolizing enzymes in liver
  - (ii) Valproate causes hair loss
  - (iii) It is well tolerated by the elderly
- (A) (i) and (ii) only                      (B)  (ii) and (iii) only  
(C) (i) and (iii) only                      (D) (i), (ii) and (iii)  
(E) Answer not known

162. Ketamine is good for

- (A) Hypertensives
- (B) Ischaemic heart disease patients
- (C)  Hypovolemic patients
- (D) Patients with raised intracranial pressure
- (E) Answer not known

163. Morphine use is contraindicated in all the following states except

- (A) Bronchial asthma                      (B)  Acute pulmonary edema
- (C) Head injury                              (D) Diverticulitis
- (E) Answer not known

164. Which is the anticonvulsant drug that has weak carbonic anhydrase inhibition?

- (A) Levetiracetam                              (B) Zonisamide
- (C)  Topiramate                                  (D) Lacosamide
- (E) Answer not known

165. Select the hypnotic drug which inhibits 11  $\beta$ -hydroxylase enzyme and lacks analgesic activity?

- (A) Ketamine (B) Propofol  
(C) Fentanyl (D)  Etomidate  
(E) Answer not known

166. Choose the right matches among types :

- (1) Strychnine – Block Glycine receptor channel  
(2) Picrotoxin – Block Nicotinic Ach Receptor – Ligand gated channel  
(3) Tetrodotoxin – Block potassium channel  
(4) Philanthotoxin – Block Ampa Receptor channel
- (A) (1) and (3) are correct (B) (2) and (3) are correct  
(C)  (1) and (4) are correct (D) (2) and (4) are correct  
(E) Answer not known

167. Shortest acting non-Benzodiazepine hypnotic is

- (A)  Zaleplon (B) Zopiclone  
(C) Eszopiclone (D) Zolpidem  
(E) Answer not known

168. Antipsychotic drug with prokinetic property

- (A) Pimozide (B) Penfluridol  
(C) Loxapine (D)  Levosulpiride  
(E) Answer not known

169. All the drugs mentioned below are used for the management of Acute poisoning with Tricyclic antidepressant except

- (A) Diazepam
- (B)  Digoxin
- (C) Propranolol
- (D) Lidocaine
- (E) Answer not known

170. Choose the Antipsychotic approved drug for use in Schizophrenia and in Mania

- (A) Clozapine
- (B) Loxapine
- (C) Risperidone
- (D)  Olanzapine
- (E) Answer not known

171. All are Cholinergics/Anticholinesterase used to treat Alzheimer's disease except

- (A) Rivastigmine
- (B)  Edrophonium
- (C) Galantamine
- (D) Donepezil
- (E) Answer not known

172. Indications for use cognition restorer

- (1) Alzheimer's disease
  - (2) Transient Ischaemic attack
  - (3) Increase normal memory
  - (4) Mental retardation
- (A) (1), (2), (3), (4)
  - (B) (1), (2), (3)
  - (C)  (4), (1), (2)
  - (D) (3), (4), (2)
  - (E) Answer not known

173. Newer Psychostimulant popular with night shift workers to improve alertness

- (A) Methamphetamine (B) Atomoxetine  
(C)  Modafinil (D) Methyl Phenidate  
(E) Answer not known

174. FDA approved drug for 'restless leg syndrome'

- (A) Entacapone (B) Selegiline  
(C)  Ropinirole (D) Amantadine  
(E) Answer not known

175. Which of the following is not an Adrenergic neuron blocking drug?

- (A) Reserpine (B) Guanethidine  
(C) Bretylium (D)  Minoxidil  
(E) Answer not known

176. Which Agent is often found on an adjuvant in Heroin and has led to an increase in overdose deaths?

- (A) Spice (B)  Fentanyl  
(C) Marijuana (D) Cathinones  
(E) Answer not known

177. Volatile inhalants – include all except

- (A) Amyl nitrite (B) Toluene  
(C) Ethylene Glycol (D)  Cannabis  
(E) Answer not known



178. Drugs which reduce craving for alcohol include all except
- (A) Acamprosate
  - (B) Naltrexone
  - (C) Baclofen
  - (D)  Metadoxine
  - (E) Answer not known
179. Select the drug which can cause withdrawal symptoms in methadone dependent subjects when co-administered?
- (A) Ciprofloxacin
  - (B)  Rifampicin
  - (C) Rifabutin
  - (D) Ethambutol
  - (E) Answer not known
180. Identify the drug used in the treatment of Ethylene glycol poisoning?
- (A) Nalmefene
  - (B)  Fomepizole
  - (C) Folinic acid
  - (D) Naloxone
  - (E) Answer not known
181. All the following are teratogenic effects of retinoic acid except
- (A) Stenosis of external ear canal
  - (B)  Necrotising enterocolitis
  - (C) Cleft Lip and cleft palate
  - (D) Flat depressed nasal bridge
  - (E) Answer not known

182. Choose the wrong match in foetal therapeutics

- (A)  Nelfinavir – Vertical Transmission of HIV
- (B) Dexamethasone – Lung maturation
- (C) Phenobarbitone – Prevent physiologic jaundice
- (D) Indomethacin – Closure of PDA
- (E) Answer not known

183. The unsafe antiemetic drug in pregnancy is

- (A) Promethazine
- (B) Dicyclomine
- (C) Doxylamine
- (D)  Domperidone
- (E) Answer not known

184. Teratogenic neural tube defects are seen with the use of all of the following drugs in pregnant women except

- (A) Methotrexate
- (B)  Diazepam
- (C) Carbamazepine
- (D) Sodium valproate
- (E) Answer not known

185. Which one of the following is not a teratogen?

- (A) Barbiturates
- (B) Penicillamine
- (C)  Dextromethorphan
- (D) Propylthiouracil
- (E) Answer not known

186. Which of the following drug is considered as category B in pregnancy?

- (A) Magnesium sulfate
- (B) Morphine
- (C)  Metronidazole
- (D) Methotrexate
- (E) Answer not known

187. Which of the following drug is contraindicated in breast feeding women?

- (A) Domperidone
- (B) Methyldopa
- (C)  Ciprofloxacin
- (D) Cephalosporins
- (E) Answer not known

188. Possible adverse effect of Dapsone on breast fed infant

- (A) Sedation
- (B) Convulsions
- (C)  Haemolytic anaemia
- (D) Poor growth
- (E) Answer not known

189. Which of the following drug when taken during lactation can get accumulated in the newborn when repeated doses are given to mother?

- (A)  Diazepam
- (B) Aspirin
- (C) Chlorpromazine
- (D) Spironolactone
- (E) Answer not known

190. Assertion [A] : Aminoglycosides though they appear in breast milk are not considered dangerous.

Reason [R]: Aminoglycosides are not absorbed from the gut.

- (A)  Both [A] and [R] are independently true statements and [R] is the correct explanation for the [A]
- (B) Both [A] and [R] are independently false statements
- (C) [A] is independently a true statement and [R] is independently a false statement
- (D) [A] is independently a false statement and [R] is independently a true statement
- (E) Answer not known

191. All of the following drugs have reduced renal elimination in elderly except

- (A) Atenolol
- (B) Lithium
- (C) Enalapril
- (D)  Carbamazepine
- (E) Answer not known

192. All of the following pharmacokinetic changes occur in the elderly Except

- (A) Reduced renal clearance
- (B) Reduced plasma protein binding
- (C)  Decreased volume of distribution with lipophilic drugs
- (D) Decrease in hepatic blood flow
- (E) Answer not known

193. Which of the following drug has age related decrease in hepatic clearance?
- (A) Isoniazid (B) Warfarin  
(C) Lidocaine (D)  Propranolol  
(E) Answer not known
194. Calculate the estimated creatinine clearance (mL/min) for an elderly male aged 68 years with serum creatinine 2 mg/dl, Weight is 50 kg.
- (A)  25 mL/min (B) 28 mL/min  
(C) 32 mL/min (D) 38 mL/min  
(E) Answer not known
195. The half life of the drug diazepam increases with advancing age due to
- (A)  Increased distribution volume of lipid soluble drugs  
(B) Decreased distribution volume of lipid soluble drugs  
(C) Increased activity of hepatic microsomal enzymes  
(D) The proportion of the body that is fat decreases with advancing age  
(E) Answer not known
196. A 75 years old man has uncontrolled hypertension and also suffering from typical anginal pain. He has bradycardia too on examination. Blood pressure is 170/90 mmHg. What drug has to be given for angina?
- (A) Verapamil (B) Metoprolol  
(C)  Amlodipine (D) Adenosine  
(E) Answer not known

197. Incorrect match of special adverse effects of drugs in young children.

- (A) Suppression of growth – Corticosteroids
- (B) Teeth discolouration – Tetracycline
- (C) Dystonic reactions – Phenothiazines
- (D) ✓ Tall stature – Androgens
- (E) Answer not known

198. During which stage of fetal life the developmental and functional abnormalities are more common

- (A) Conception
- (B) Implantation
- (C) Organogenesis
- (D) ✓ Growth development
- (E) Answer not known

199. Which one of the following drugs has a long elimination  $t_{\frac{1}{2}}$  in neonates?

- (A) Salicylates
- (B) Theophyllin
- (C) ✓ Phenytoin
- (D) Acetaminophen
- (E) Answer not known

200. Assertion [A] : The clearance of carbamazepine is greater in children than in adults.

Reason [R] : In infants, there is a greater proportion of free drug levels of carbamazepine due to reduced protein binding.

- (A) Both [A] and [R] are independently false statements
- (B) Both [A] and [R] are independently true statements and the [R] is correct explanation for the [A]
- (C) ✓ Both [A] and [R] are independently true statements but the [R] is not the correct explanation for the [A]
- (D) [A] is independently false statement but [R] is independently a true statement
- (E) Answer not known