SEAL

Question Booklet Code:	Register			T		
	Number		Y			

2019 FOOD AND NUTRITION

Time Allowed : 3 Hours]

[Maximum Marks: 300

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

- 1. The applicant will be supplied with Question Booklet 15 minutes before commencement of the examination.
- 2. This Question Booklet contains 200 questions. Prior to attempting to answer, the candidates are requested to check whether all the questions are there in series and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed, it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination, it will not be replaced.
- 3. Answer all questions. All questions carry equal marks.
- 4. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
- 5. An answer sheet will be supplied to you, separately by the Room Invigilator to mark the answers.
- 6. You will also encode your Question Booklet Code with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per Commission's notification.
- 7. Each question comprises four responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
- 8. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows:



- 9. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the time of examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
- 10. Do not make any marking in the question booklet except in the sheet before the last page of the question booklet, which can be used for rough work. This should be strictly adhered.
- 11. Applicants have to write and shade the total number of answer fields left blank on the boxes provided at side 2 of OMR Answer Sheet. An extra time of 5 minutes will be given to specify the number of answer fields left blank.
- 12. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.

1.	The	peripheral nervous system consists	of	
	(A)	Brain and Spinal Cord	(B)	Sensory nervous, ganglia and nerves
× .		Arms, hands and feets	(D)	Brain, spinal cord and retina of the eye
2.	Sim	ilarly of endorphins and neuropeptic	des occ	cur naturally in the brain due to
	(A)	Serotonin	9	Morphine
	(C)	GABA	(D)	Acetyl Choline
3.	Nerv	ve synapses are present only in the		
	(1)	Gray matter	(B)	Sensory ganglia
	(C)	Posterior nerve root ganglia	(D)	White matter
4.	Sick	le cell anemia is caused due to subs	titutio	n of
	(A)	Valine	10)	Glutamic acid
	(C)	Aspartate	(D)	Arginine
5.	Whi	ch of the following statements is 'con	rrect' 1	regarding hemoglobin?
	(A)	The iron in the haeme is in the fer	rric sta	ate and one Hb combines with four, O_2
	(B)	The iron in the haeme is in the ferr	rous st	tate and one Hb combines with one, O2
	(0)	The iron in the haeme is in the ferr	rous st	cate and one Hb combines with four, O_2
	(D)			ate and one Hb combines with one, O2
6.	Whie	ch of the following statements are co	orrect	
	I.	There will be an immediate increas		
	II.	The cause for increase is high O2 to	ension	
	III.	Anoxia is due to lower O2 tension a	and blo	ood
	IV.	There will be immediate response by	by sple	een due to Anoxia
	(A)	I and II are correct		
	(B)	II, III and IV are correct		
	S	I, III and IV are relevant and corr	ect	
	(D)	I is correct but IV is not relevant		

7.	Which of the following valves open when the intra ventricular pressure exceeds pressure in the large arteries?				
	115	Semilunar valves	(B)	Tricuspid valves	
	(C)	Bicuspid valves	(D)	Mitral	
8.	The	cardiac impulse originates at			
	US	SA node	(B)	AV node	
	(C)	Node of Tawara	(D)	Purkinje Fibres	
9.	This	principle of management may be us	sed to	ensure speed in food production	
	(1)	Division of work	(B)	Unitary command	
	(C)	Work stability	(D)	Unity	
10.	Whi	ch of the following statements are co	rrect	?	
	I.	Stamp the date of delivery on ever that old stocks are used up first	ery st	ock received before shelving to ensure	
	II.	Place items on shelves according to row and later ones at the back	date	e stamped with earlier ones in the front	
	(A)	(I) only	(B)	(II) only	
	4	(I) and (II)	(D)	Neither (I) nor (II)	
			pi 2		
11.	Whi	ch of the statement is correct?			
	I.	Operation of equipment simply reference handed by the operators in the work		the manner in which it performs when ation	
	II.	Even the simplest equipment needs	to be	e used correctly for efficiency	
	(A)	(I) only	(B)	(II) only	
	V	(I) and (II)	(D)	Neither (I) nor (II)	

12.		a general guide in a food service k on to work in	itche	n ———— is sufficient for a single
	(A)	$3 \text{ m} \times 4.5 \text{ m}$	(B)	1 m × 2.5 m
	(C)	$4 \text{ m} \times 6.5 \text{ m}$	9	2.5 m × 3 m
13.	Prof	fit-making commercial organisat ————————————————————————————————————	ions	may even go up to a net profit of
	(A)	5%	(B)	10%
	S	15%	.(D)	20%
14.	Effe	ctive recruitment requires		
	I.	A clear idea of job requirements		
	II.	Information regarding the applicants	age, c	qualifications, experience and background.
	III.	Projection of a fairly realistic but order to attract qualified people	favo	urable image of the establishments in
	(A)	(I) and (II)	(B)	(II) and (III)
	(C)	(I) and (III)	(0)	(I), (II) and (III)
15.		is used to keep the food hot.		
	I.	Hot cupboard II. Bain m	arie	
	III.	Stock pot IV. Wok	4	
	1	(I) and (II)	(B)	(II) and (III)
	(C)	(III) and (IV)	(D)	(I) and (IV)
16.		is a process of determining nov rtaining and comparing results with		ll people perform their functions, by cted ones, over a period of time
	(A)	controlling	(B)	coordinating
	(C)	forecasting	6	evaluating
17.	The	temperature maintained in dry stora	age ro	oom is ——— °C
	(A)	0 – 10	S	20 – 25
	(C)	10 – 15	(D)	25 – 30
18.	from	coming then within the danger zo	nes o tures	e be carefully watched to prevent them of ———— °C, as micro organisms depending on the nature of the foods.
	(A)	60 – 101	(25)	10 – 62
	(C)	40 - 70	(D)	112 – 120

19.	The	key characteristics of a la carte me	nu are	
	(i)	the choice is generally more exten	sive	
	(ii)	each dish is priced separately		
	(iii)	there may be longer waiting time	ies as	some dishes are cooked or finished to
	(A)	(i) and (ii)	(B)	(ii) and (iii)
	(C)	(i) and (iii)		(i), (ii) and (iii)
20.		——— iş an example of probabilit	y samj	pling.
	(A)	Quota sampling	(B)	Snowball sampling
	(C)	Judgement sampling		Replicated sampling
21.	The (i) (ii) (iii) (A) (C)	purpose of an exploratory study magenerate new ideas make a precise formulation of the gather information for clarifying c (i) and (ii) (i) and (iii)	proble	m
22.		ween rows, variance between varieti One way ANOVA	ies and (B)	variance between columns, variance residual variance. Two way ANOVA ANOVA is perpendicular design
23.		is an example of non-contin	nuous	variable.
	(A)	Age	(B)	Height of children
	(C)	Weight of children	S	No. of children in a family

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24.	The method of convenience sampling is also called the							
	S	Chunk	· (B)	Quota				
	(C)	Chester	(D)	Lottery				
25.		——— are measures that divide	a distril	bution into one hundred equal parts.				
	(A)	Deciles	(B)	Quartiles				
	S	Centiles	(D)	Mean				
26.		are the most effective pic	torial de	vice for comparing data.				
	1	Bar charts	(B)	Lorenz curve				
	(C)	Stock plots	(D)	'Z' scores				
27.				s used to facilitate the interpretation of iduals or group of observations from a				
	1	Statistical methods	(B)	Sampling techniques				
	(C)	Depository services	(D)	None of the above				
28.	The	important parametric test to test	the sign	ificance used for hypothesis testing is				
	(i)	Z test						
	(ii)	't' test						
	(iii)	Ftest	- N					
	(A)	(i) and (ii)	(B)	(ii) and (iii)				
	. (C)	(i) and (iii)		(i), (ii) and (iii)				
29.	depe			eliminated and the observed effects or the effect to experimented dependen inoculation				
	(C)		. 1 47 14	randomisation				
	(C)	interviewing	(D)	Tanuomisation				

30.	Arac	chin and Conarchin II are the major proteins in
	(A)	Cashewnut
	(B)	Walnut
	(C)	Coconut

31. Nuts are rich in the amino acid

Groundnut

- (A) Phenylalanine
- (B) Methionine
- Arginine
 - (D) Histidine

- **25 33%**
- (B) 35 50%
- (C) 51 72%
- (D) 75 100%

33: High content of glycogen is present in

- (A) Scallops
- (B) Oysters
- (C) Molluscs
- (D) Mussels

34. How much time is taken by chicken for rigor mortis to set in?

- (A) 1-2 hours
- (3) 2 4 hours
- (C) 4-6 hours
- (D) 6-8 hours

35. Dryi	ng and witherin	g of greens re	sults in reduction	of —	vitamin.
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(A) Vitamin A

Vitamin B

(C) Vitamin C

(D) Vitamin D

36. The temperature to obtain soft ball stage is ———— °C.

(A) 50 - 75 °C

(B) 75 - 100 °C

(C) $100 - 112 \,^{\circ}\text{C}$

(6) 112 – 115 °C

37. Excessive consumption of kesari dhal results in

(A) Farism

(B) Goitre

(2) Lathyrism

(D) Nausea.

(A) 125

(B) 175

(C) 280

340

(A) Glutamic acid

(B) Lysine

Tryptophan

(D) Phenylalanine

(A) 121 mg

(B) 190 mg

(C) 280 mg

(25) 344 mg

41.		length of the baby increases by a		cm during first year and
	(A)	12, 25	S	25, 12
	(C)	14, 30	(D)	30, 14
42.	Und	er National immunisation schedule,	BCG	vaccine is given at
	A)	Birth	(B)	6 weeks
	(C)	10 weeks	(D)	14 weeks
43.	-	—— mg of elemental iron and —		mme, all pregnant mothers are given — mcg of folic acid for 100 days after
	-	irst trimester of pregnancy.		60, 500
	(A)	40, 400	(D)	
	(C)	100, 1000	(D)	50, 600
44.	Duri	ng infancy, high phosphorus can lea	id to	
	(1)	hypocalcaemic neonatal tetany		
	(B)	hypercalcaemic neonatal tetany		
	(C)	hypocalcaemic neonatal injury		
	(D)	hypercalcaemic neonatal injury		
45.	The	"Baby friendly Hospital Initiative" s	chem	e was initiated by
	1	UNICF/WHO	(B)	FAO/WHO
	(C)	UNICF/FAO	(D)	ICMR/WHO
10		A - 1 Malantition (CAM) in 1.6		
46.	Seve	re Acuté Malnutrition (SAM) is defi	1	
		weight for height	(B)	height for weight
	(C)	weight	(D)	height

47.		ole fats suggested by ICMR (201 erate and heavy activities are	(0) fo	or an adult woman doing sedentary,
	18	20, 25 and 30 g	(B)	25, 30 and 35 g
	(C)	30, 35 and 40 g	(D)	35, 40 and 45 g
48.		effect of nutrients in molecular level ts of nutrients is	l proc	esses in the body as well as the variable
	1/1)	Nutrigenomics	(B)	Nutraceuticals
	(C)	Nutrimix	(D)	Phytochemicals
49.	Prov child (A)		for in	nproving the health and nutrition of School snacks
	(A)		3 1	
		School lunch	(D)	Dinner
50.		ng pregnancy there is considerable are required for DNA synthesis in Protein		
	(0)	Folate	(D)	Vitamin D
	V	rolate	(D)	vitamin D
51.	the r	need for calories, minerals, vitami	ns ar	in such quantities and proportions that ad other nutrients is met and a small tand short duration of learners is called
	•	Balanced diet		
	(C)	Nutrigenetics	(D)	Anti oxidane
52.		escents with this eating disorder ha ht fluctuations.	ave us	sually near ideal body weight, but with
	(A)	Anorexia Nervosa	(B)	Binge eating
	(C)	PMS		Bulimia Nervosa
50	A.J.1	accounts with		www.ight on ohoos
53.				rweight or obese.
	(A)	Anaemia	(B)	Lactose intolerance
	(C)	Anorexia		Binge eating

54.	Infar	nts are generally born with haemogl	obin	levels of ———————————————————————————————————
		30 – 40 g	(B)	15 – 24 g
	S	18 – 22 g	(D)	14 – 20 g
55.	The	energy expenditure during normal	preg	gnancy for an Indian reference woman
	woul	d be ——— Kcals.	,	
	(A)	80,000	1000	27,000
	(C)	30,000	(D)	20,000
56.	High	levels during pregnance	cy pro	omotes gynecoid type of fat distribution
	(A)	Progesterone	(B)	Oxytocin
	(C)	Prolactin	S	Estrogen
57.	The a	amount of fluid given initially in cas	e of c	clear fluid diet is every 1–2 hours
	S	30 – 60 ml	(B)	100 ml
	(C)	30 – 60 ml 80 – 120 ml	(D)	10 – 20 ml
58.	The	infusion technique in tube feeding	whe	re large volumes are given in a short
	time	is		
	(A)	Cyclic	(B)	Interrupted
	(C)	Continuous	(D)	Bolus
59.	The l	Recommended Dietary Allowances (RDA)	is given by
	(A)	ICAR	S	ICMR
	(C)	FAO	(D)	WHO

60.		is the quickness of reaction with fast and sure movements.						
	(A)	Flexi	ibility			(B)	Coordination	
	S	Agili	ty			(D)	Equilibrium	
61.				hich sl		oe conducted	for a minimum of three times before	
	S	Prov	ocative	test		(B)	Elimination test	
	(C)	Skin	test			(D)	X-ray test	
62.		phylacestion o		ck whi	ch is t	he life threa	tening food allergy mainly caused by	
	(A)	whea	t produ	icts			groundnuts	
	(C)	salte	d fish			(D)	alcohol	
63.		200	condit			— concentra	ation reflects surgical risk rather than	
	(A)	Crea	tinine				Albumin	
	(C)	Glob	ulin			(D)	Gastrin	
64.	Mat	ch the	followir	ıσ.				
01.		Soyab		.6	1.	Vegetable o	ils	
	(b)	Red w			2.	Almonds		
	(c)	MUFA			3.	Flavonoids		
	(d)	Vitam	in E		4.	Anthocyania	n	
		(a)	(b)	(c)	(d)			
	(A)	4	3	1	2			
	1	3	4	2	1			
	(C)	3	2	1	4			
	(D)	3	1	4	2			
				100				

65.	It would be prudent for people with H.Pylori infection to increase their intake of								
	(A)	Iron	(B)	Calcium					
	(C)	Folic acid	S	Ascorbic acid					
66.	BCA	AA protein refers to rich in branched	amin	o acids such as					
	(A)	Histidine, Leucine, Tryptophan							
	9	Leucine, Isoleucine, Valine							
	(C)	Aspartic acid, Leucine, Phenyl ala	nine						
	(D)	Isoleucine, Histidine, Valine							
67.	Cho	ose the correct statement :							
	(i)	Liver synthesises heparin.							
	(ii)	Liver stores calcium.							
	(iii)	Liver synthesis Iron.							
	(iv)	Liver synthesis phospholipids.							
	(A)	(i) and (ii) are correct	(B)	(i) and (iii) are correct					
	V	(i) and (iv) are correct	(D)	(ii) and (iii) are correct					
68.	Excessive ———— should be avoided in ulcers and gastritis.								
	(A)	Water	S	Caffeine					
	(C)	Juices	(D)	Protein foods					
69.	Currently ———— and individualized diet is recommended in treating peptiulcer.								
	(A)	liquid	(B)	sippy's					
	(C)	low protein	01	bland					
70.	Deli	irium and confusion are symptoms of	f						
	M	hepatic coma	(B)	hepatitis					
	(C)	alcoholic liver disease	(D)	cirrhosis					

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71.	Person who takes decision in terms of methods and time-frame implementation.							
	(A)	High	h level i	manager	s	(B))	Middle level managers
	4	Low	er level	manage	ers	(D))	Very lower level managers
72.	(i)		ımber o		actions	, both big a	an	nd small, take place in a food service
	(ii)	A sys	stematic	record	of large	e transaction	ıs	is essential and not small transaction
	1	(i) is	s correct	but not	relate	d to (ii) state	en	nent
	(B)		(i) is not correct and related to (ii) statement					
	(C)	(i) is	correct	and rel	ated to	(ii) stateme	n	t .
	(D)	(i) a	nd (ii) a	re not co	orrect			
73.	Mat	ch the	followi	ng:				
	(a)	Prod	uction I	Budget	1.	Direct and	Ι	ndirect materials
	(b)		ur Budg		2.	Values of d	lif	fferent products
	(c)	Sales	Budge	t	3.	Physical un	ni	its
	(d) Material Budget		4.	4. Hours per unit of output				
		(a)	(b)	(c)	(d)			
	(A)	2	1	4	3			
*	(B)	2	4	1.	3			
	(C)	3	1	4	2			
	(0)	3	4	2	1			
74.	Inve	entory	control	is other	wise ca	illed as		
	(A)	Labo	our cont	trol		(B)	-	Financial control
		Stoc	k contro	ol		(D))	Vehicle control
75.	It is	not th	ie factor	that aff	fect pri	cing in a foo	d	service establishment
	(A)	Loca	tion			98		Advertising
	(C)	Men	u			(D))	Environmental condition
76.	Whi	ich of t	he follo	wing is t	the pre	cursor of Bil	e	acids
	(A)	Lane	osterol			P		Cholesterol
	(C)	Stag	master	ol		(D))	Bilirubin

77.	Pick out the enzyme responsible for phenylketonuria:								
	(A)	Tyrasinase	(B)	Histidase					
	4	Phenylalamine hydroxylase	(D)	Homogentisate oxidase					
78.	Whi	ich of the following statement is in	correct?						
	Нур	er calcemia is observed in							
	Stat	tement:							
	(i)	Hyper parathyroidism							
	(ii)	Multiple Myeloma							
	(iii)	Cancer							
	(iv)	Rickets and Osteomalacia							
	(A)	(i), (ii), (iii) are incorrect	(B)	(ii), (iii), (iv) are incorrect					
	(C)	only (i) is incorrect	6	only (iv) is incorrect					
79.	The	3Ds of symptoms of pellagra are							
	S	dermatitis, diarrhea and demen	tia						
	(B)	deficiency, disease, death							
	(C)	dermatitis, digestion, deficiency							
	(D)	dermatitis, diarrhea, digestion							
80.	Whi	ch of the following vitamin is know	wn as ar	ati-hemorrhagic factor					
	(A)	Vitamin D	B	Vitamin K					
	(C)	Vitamin E	(D)	Vitamin A					
81.	The	absorption of fat soluble vitamins	A, D, E	and K requires					
	M	Bile salts	(B)	Compound lipids					
	(C)	Steroid hormones	(D)	Lecitherine					
82.	The	accumulation of ketone bodies in	blood is	known as					
	1	Ketonemia	(B)	Ketonuria					
	(C)	Ketoacidosis	(D)	Fatty liver					

83.	Whi	Which amino acid is essential for the formation of bile acids?							
	1	Glycine							
	(B)	Cysterine							
	(C)	Methionine							
	(D)	Tryptophan							
84.		functions as a master co-ordinator of hormonal action.							
	(A)	Pituitary							
	(B)	Adrenal							
	(C)	Pancreatic							
	200	Hypothalamus							
85.	-	is the one that resists a change in pH on the addition of acid or base.							
	(A)	Acid solution							
	(B)	Alkali solution							
	(C)	Neutral solution,							
	S	Buffer solution							
86.	Cher	mically similar substances that possess qualitatively similar vitamin activityed							
	(A)	Minerals							
	98	Vitamins							
	(C)	Nucleic acids							
	(D)	Pheramoals							
87.		regarded as the reserve bank of genetic information.							
	(A)	Protein (B) Nucleic acid							
	4	DNA (D) RNA							

88.		mical agents which serve to reta- called	rd, hind	er or mask undesirable change in food
	(A)	Additives	(B)	Toxins
	9	Preservatives	(D)	Coolatives
89.	-			aining toxins formed by bacteria which
		lted from bacteria growth in food	item.	
	(A)	Food borne infection		Food poisoning
	(C)	Food spoilage	(D)	Food intoxication
90.		——— results in motor and mus	cle para	lysis.
	(A)	Yellow fever	(B)	Dengue fever
	(C)	Viral hepatitis	B	Poliomyelitis
91.	The	main cause for traveler's diarrhea	a is	
	(A)	Vibrio cholerae	S)	E.coli
	(C)	Treponema	(D)	Sobrinus
92.	Whi	ch one of the following is NOT a b	acterial	food intoxication?
	(A)	Botulism		
	(B)	Staphylococcus gastro enteritis		
	(C)	E.coli poisoning		
	\$	Aflatoxin		
93.		is used in Vinegar manuf	acture.	
	(A)	Lactic acid bacteria		
	(B)	Propionic acid bacteria		
	1	Acetic acid bacteria		
	(D)	Oxalic acid bacteria		

94.	The f	he food preservation method that uses both freezing and drying is known as				
	(A)	Dessication				
	S	Lyophilization				
	(C)	Pasteurization				
	(D)	Filteration				
95.	Which of the following sterilization method is most effective for sterilizing test tubes and petri dishes?					
	(A)	Pasteurization				
	9	Hot air oven				
	(C)	Incineration				
	(D)	Boiling				
96.	-	is added in large quantities as a preservative in murabbas.				
	(A)	Salt Sugar				
	(C)	Nitrates (D) Organic acids				
97.	The t	erm 'asepsis' means				
	(A)	Towards infection				
	J)	Against infection				
	(C)	Skin disease				
	(D)	Surgery				
98.	The a	agents used for disinfecting the inanimate objects or substances are				
	(A)	Preservatives				
	(B)	Contaminants				
	(1)	Disinfectants				
	(D)	Pathogens				

99.	which of the following explain the vital capacity of lungs?							
	(A)	Volume of air contained in	the lungs at	the end of a maximal respiration				
	08	Maximum volume of air tha	at can be exp	elled by a complete expiration				
	(C)	Volume of air remaining in	the lungs at	the end of normal respiration				
	(D)	Maximum volume of air tha	at can be ins	pired after a normal expiration				
100.	Name the enzymes converts inactive trypsinogen into active trypsin?							
	M	enterokinase	(B)	trypsin				
	(C)	chymotrypsin	(D)	kallakrein				
101.	2	substance which promote even	acuation of	the gall bladder and free flow of bile is				
	(A)	Emeties	(B)	Expectorants				
	9	Cholagogues	(D)	Purgatives				
102.	Name the hormone controlled the second half of the menstrual cycle and secreated by							
	S	LH, Progesterone	(B)	LH, Estrogen				
	(C).	FSH, Estrogen	(D)	FSH, Progesterone				
103.	Insulin is a protein hormone containing trace amount of							
	(A)	Cobalt	(B)	Copper				
	(C)	Manganese	B	Zinc				
104.	The	Renal vein leaves the kidney	at the					
	(A)	Malpigi	S	Hilum				
	(C)	Cortex	(D)	Columns of Bertini				
105.	Effective glomerular filtration occurs when							
	(A)	Osmotic Pressure < Intraca	psular Press	ure				
	(B)	Glomerular Capillary Press	ure < Effect:	ive Filtration Pressure				
	6	Glomerular Capillary Press						
	(D)	Intracapsular Pressure > G	lomerular C	apillary Pressure				

106.	(A) (C) (D)	Viscosity Blood Vis Plasma V	of blood is 3 t scosity is due Viscosity is con	ments is Incorrect to 4 times that of to plasma protein attributed by protestimes that of was	ns only eins		
107.	Which	h type of e	epithelium is s	seen in urinary b	ladder?		
	(A)	Stratified	d	(B)	Squamous		
		Transitio	onal	(D)	Cuboidal		
108.	Which	n of the foll	lowing stateme	ents does not coinc	ide with the characteristics of eosinophil?		
	(A)	They are	slightly large	r than neutrophi	ls		
	(B)	They hav	e bilobed nucl	lei			
	Their granules take up methylene blue (basic) stain						
	(D)	They are	rich in histan	nines			
To and							
109.	The s	uperior ar	nd inferior ver	na cava drain the	blood into the		
	(A)	left atriu			right atrium		
	(C)	left ventr	ricle	(D)	right ventricle		
110.	Which	h of the fo	llowing effects	s stimulates the o	conductivity of cardiac contraction?		
	(A)	Inotropic		(B)	Chronotropic		
	(C)	Bathmot	ropic		Dromotropic		
111.	Asser	tion (A):	Heart contin	ues to contract e	ven after all its nervous connections ar	е	
	Reaso	on (R) :	The pacemal	ker cells in the he	eart produces impulses		
	Read	the above	statements c	arefully and mar	k the correct options:		
	(1)	Both (A)	and (R) are co	rrect and (R) exp	lains (A) adequately		
	(B)	Both (A)	and (R) are co	rrect but (R) does	s not explain (A) adequately		
	(C)	(A) is cor	rect, (R) is wro	ong			
	(D)	Both (A)	and (R) are w	rong			
12		120					

112.	The	space allowance for counter service i	.s —	m ²
	S	1.70 to 1.90	(B)	1.40 to 1.80
	(C)	1.50 to 1.95	(D)	1.10 to 1.40
113.	In v	which method air is removed from foo	od an	d put in air tight cans so that germs d
	not	grow on them.		
	(A)	canning	(B)	drying
	(C)	freezing	(D)	boiling
114.	The	recommended height for racks in a s	tore	room is ——— m.
	(A)	1.8	(B)	4.6
	S.	2.3	(D)	5.4.
115.	In-	food system, food is produ	aced t	otally from raw ingredients.
	(A)	convenience	05)	conventional
	(C)	ready	(D)	integrated
116.	Egg	s and dairy products are stored at a t	empe	erature of ——— °C
	(A)	10 to 15	9	5 to 10
	(C)	−20 to −10	(D)	0 to 5
117.	Whi	ch of the statement is correct?		
	I.	A corner location of kitchen makes a supplies and removal of kitchen was		essible by road for purposes of receiving
	II.	The kitchen should be situated ov flow and unnecessary expenses on a	A 1 47900	ound to avoid flooding, drainage backial lighting and ventilation.
	(A)	(I) only	(B)	(II) only
	S	(I) and (II)	(D)	Neither (I) nor (II)

118.	In a restaurant equipped for leisurely dining, each space setting should allow atleas ————————————————————————————————————								
	(A) 100 – 120	0	50 - 60						
	(C) 40 – 80	(D)	70 – 90						
119.	Choose the correct sequence:								
	(i) Delegating authority								
	(ii) Determining activities	re e							
	(iii) Coordinating activities								
	(iv) Assigning duties								
	(v) Providing physical facilities and righ	nt en	vironment						
	(vi) Clear definition of objectives								
	(vii) Establishment of structural relation	ship	for overall control						
	(A) (i), (v), (ii), (vii), (iii), (vi), (iv)								
	(B) (ii), (v), (i), (iv), (vii), (vi), (iii)								
	(vi), (ii), (iv), (i), (iii), (v), (vii)								
	(D) (iii), (vii), (iv), (v), (i), (vi), (ii)								
120.	The advantage of having proper ventilation is								
	(i) It makes the work place comfortable								
	(ii) It reduces chances of accidental fires due to accumulated grease								
	(iii) It prevents water from condensation drippings onto food	on fr	om settling on walls and ceilings and						
	(A) (i) only	(B)	(ii) only						
	(C) (iii) only	(5)	(i), (ii) and (iii)						
121.	is a document based on the information in the requisition completed by the buyer who gives it to the supplier.								
	(A) Purchase requisition	01	Purchase order						
	(C) Invoice	(D)	Requisition slip						
122.	Which of the statement is correct?								
	(i) It is good practice to keep foods cover from drying	ered	in refrigerated storage to prevent them						
	(ii) The space required for refrigerated a produced and the type of menus along		ge is determined by the volume of food th the accuracy of forecasts of sales						
	(A) (i) only	(B)	(ii) only						
	(i) and (ii)	(D)	Neither (i) nor (ii)						

123.	Which of the following statements are correct?						
		A hypothesis from what barren hypothesis	ich the (consequences can be deducted is called			
		A hypothesis which is called a false hypothes		to be unsatisfactory when verified is			
	(1) is wron	g (2) is correct	(B)	Both (1) and (2) are correct			
	(C) Both (1) ar	nd (2) are wrong	(D)	(1) is correct (2) is wrong			
124.	and	are the c	entral s	teps in the research process.			
		f hypothesis and Pitot nd Interpretation	study				
		ne problem and collect		ata			
	(D) Report wri	ting and Bibliography					
125.	is/aı	re the method of study	ing corr	elation.			
	Graphic m	ethod	(B)	Freehand smoothing			
	(C) Sectional a	iverages	(D)	Cyclical movements			
126.	Controlled group	is a term used in					
	(A) Survey res	earch	(B)	Historical research			
	Experimen	ital research	(D)	Descriptive research			
127.	items in a series.		al of the	average of reciprocals of the values of			
	(A) Geometric	mean	(3)	Harmonic mean			
	(C) Median		(D)	Mode			
128.	Classification is the process of arranging data in						
	(A) different columns						
	(B) different rows						
	(D) different columns and rows						
	(D) different co	orumns and rows					
129.	Which of the following statements are True or False?						
	Statement (1): In the construction of a table, abbreviations should be avoided especially in titles and headings						
		The frequency distributalues of the data.	ition acl	hieves condensate data by blurring the			
	(A) (1) is true		(B)	(2) is true			
	Both (1) an	d (2) are true	(D)	(1) is true and (2) is false			

130.	-	designs are used in experi	ments	where the effects of varying more than			
	one f	one factor are to be determined.					
	(A)	Factorial					
	(B)	Latin Square .					
	(C)	Randomized Block					
	(D)	Random replication					
131.	The	enzyme used in cheese preparation	is				
	(A)	Lipase					
	(3)	Rennin					
	(C)	Trypsin					
	(D)	Amylase					
132.	Whey	ey proteins are made up of ————	— an	d β -lactoglobulin.			
	(A)	Glutamate	S	lpha -lactalbumin			
	(C)	Riboflavin	(D)	Oxidase			
133.		°C is the smoking point of	soybea	n and peanut oil			
	(1)	230°C	(B)	150°C			
	(C)	320°C	(D)	28°C			
134.	7	is a semisolid oil in water e	emulsio	on of edible vegetable oils.			
	(A)	Mayonnaise					
	(B)	Margarine					
	(C)	Cheese					
	(D)	Ghee					

135.	Offa	Is are an excellent source of ———— nutrient.
	(A)	Carbohydrate
	98	Protein
	(C)	Fat
	(D)	Vitamins
136.	Mixt	cure of ascorbic acid and ————— develop brown colour.
	(A)	Glucose
	(B)	Fat
	5	Amino acids
	(D)	Minerals
137.	Over	r ripening of fruits is prevented by ————— dip.
	(Á)	Acetic acid
	\$	Ascorbie acid
	(C)	Carbon dioxide
	(D)	Oxygen
138.	Whe	n onions got scorched or burnt the sugar get
	(A)	Gelatinized
	S	Caramalized
	(C)	Coagulated
	(D)	Hydrolyzed
139.	An –	———— medium promotes a reddish colour to betalains.
100.	(A)	Neutral
	1	Acidic
	(C)	Alkaline
	(D)	Hard water

140.	PDS	is		
		Public Deficiency System	(B)	Public Deficiency Scheme
		Public Distribution System	(D)	Public Distribution Scheme
141.			g aids ar	sing all kinds of media written, spoken e also used making it the most effective
	(A)	Radio	(3)	Nutrition Exhibition
	(C)	Banners	(D)	Newspapers
142.		ing emergency feeding for the protest should be followed:	per mar	nagement of food supplies the following
	(i)	The objective is to ensure safthrough food.	ety and	prevent the transmission of disease
	(ii)	It is necessary to inspect the supplies and confirm that contain		ceived, identify and discard damaged in good condition.
	(iii)	Store food by its date of entry so t	hat it is	distributed on a first in/first out basis.
	(A)	(i) and (ii)	(B)	(ii) and (iii)
	S	(i) and (iii)	(D)	(i), (ii) and (iii)
143.		ent studies revealed that elderly pumed less amount of	patients	with early stage of Alzheimers disease
	(A)	Vitamin A	(B)	Vitamin D
	(C)	Vitamin E	9	Vitamin K
144.	The	mean age of menarche for Indian	girls is	
	(A)	$11.5 \pm 0.8 \mathrm{years}$	(B)	$12.5 \pm 0.8 \mathrm{years}$
		13.5 ± 0.8 years	(D)	13.5 ± 0.6 years
145.	Duri requ		for an in	crease in each kilogram in body weight
	(A)	20 mg	(8)	30 mg
	(C)	40 mg	(D)	50 mg
146.	This	age group is not a beneficiary of	ICDS.	
	(A)	Pregnant women	(B)	Nursing mothers
	(C)	Children less than 3 years		Old people
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[Turn over

	(i)	Maternal malnutrition prior to produce an under weight newborn		during pregnancy is more likely to			
	(ii)	Higher incidence of malnutritions small families.	n has b	peen reported in children belonging to			
	(iii)	Malnutrition occurs more in child	lren livi	ng in unsanitary living conditions			
	(iv)	Poverty can cause malnutrition					
	(A)	(i), (ii) and (iv)	(B)	(ii), (iii) and (iv)			
	4	(i), (iii) and (iv)	(D)	(i), (ii) and (iii)			
148.	The	formula for calculating BMI is					
	1	Weight in kg / Height in m ²	(B)	Height in m ² / Weight in kg			
	(C)	Weight in kg × Height in m ²	(D)	Weight in kg / Height in m			
149.		cility that collects and distributes the hungry is	food do	nations to authorized organization that			
	(1)	Food Bank	(B)	Nutrition Security			
	(C)	Food Distributor	(D)	Food Dealers			
150.	A Fı	renchman, often referred as the fat	her of s	cience of nutrition is			
	(1)	Lavoisier	(B)	Dubois			
	(C)	Funk	. (D)	Hopkins			
151.	Pyri	doxin and Zinc requirement sugge	sted by	ICMR (2010) for adult man is			
	S	2 mg and 12 mg	(B)	2 mg and 14 mg			
	(C)	3 mg and 12 mg	(D)	3 mg and 14 mg			
152.	Dur	ing adulthood, nutrients are requi	red				
	(A)	A) to replace worn out cells and maintenance of body function					
	(B)	for growth and development					
	(C)	for regeneration of cells and fund	ctional o	capacity			
	(D)	for effective functional capacity					
			- t				

147. Which of the statement is true?

153.	Corn	Corneal xerosis may progress suddenly and rapidly to			
	(A)	Conjunctival xerosis	(B)	Blindness	
	S	Keratomalacia	(D)	Bitot's spots	
154.	For energ		- per	cent energy intake is used for basal	
	S	50	(B)	25	
	(C)	75	(D)	40	
155.	Lack	of ——— in human milk inhib	oits m	ialaria.	
	(A)	Lactoferin			
	(B)	Lactobacillus Bifidus factor			
	(C)	Macrophages			
	B	Para Amino Benzoic acid			
156.		——— helps a baby to pass the first	t stoo	1.	
	(A)	Prelacteal food	(B)	Foremilk	
	(C)	Hind milk	B	Colostrum	
157.		re prolonged persistent ————darum.	– in	pregnancy is referred as hyperemesis	
	(A)	heart burn	(B)	leg cramps	
	\$	vomiting	(D)	anaemia	

158.	The dietary assessment method where the subject is required to save a duplicate sample of each food taken by him is						
	(A)	24 hour diet recall	(B)	weighment method			
	1	chemical analysis	(D)	inventory method			
159.		tests help to diagnose maln		on at sub clinical stage and also help to			
	(A)	Clinical		Biochemical			
	(C)	Anthropometry	(D)	Functional			
160.		Index = Ht. in cms. – 100 =	Ideal	weight in kg.			
	(A)	Kanawati	(B)	Mcharen's			
	(C)	Rao	1	Broka's			
161.	Fat f	fold at ———————————————————————————————————	pron	e.			
	(A)	Biceps	(B)	Subscapula			
	9	Triceps	(D)	Calf			
169	Low	cholesterol diet is prescribed mostly	for	nationta			
102.		Gall stones					
	(C)	Toxemia	(D)	Hypertension			
163.	Prote	ein sparing modified fasting diet con Kcal/day are recommen					
	S	50 g protein and 500 Kcal/day					
	(B)	60 g protein and 600 Kcal/day					
	(C)	60 g protein and 700 Kcal/day					
	(D)	40 g protein and 400 Kcal/day					

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			- 4	
164.	Nut	s contain high amount of monounsat	turate	d fat in the form of ———— acid.
	(A)	Linoleic acid	(B)	Linolenic acid
	S	Oleic acid	(D)	Arachidonic acid
165.	Cho	oose the correct statement:		
	(i)	If the patient is obese, carbohy recommended either before or after		and calorie supplementation is not
	(ii)	Sudden initiation of a vigorous exhabit is desirable.	ercise	e programme in a person of sedentary
	(A)	(i) and (ii) are correct	1	(i) is correct
1	(C)	(ii) is correct	(D).	Both (i) and (ii) are wrong
166.	The	———— within the glomerular Bowman's capsule.	capi	llaries results in the filtration of fluid
	(A)	Osmotic pressure	S	Hydrostatic pressure
	(C)	Hyperstatic pressure	(D)	Venous pressure
167.	Pick	out the wrong Option:		
	Biod	chemical Assessment of Renal function	on	
	(i)	Potassium and phosphate increase	in pla	sma.
	(ii)	Renal dysfunction increases alkalin		
	(iii)	Volume of urine may be increased of	or dec	reased
	(iv)	Urinary constituents like blood and	prote	ein may not be present in urine.
	(A)	(i)	(B)	(ii)
	(C)	(iii)	ON ON	(iv)
168.	Fine	d out the non-clinical criteria of Diab	etes :	
	(A)	Relief from symptoms		
	(B)	Prevention or retardation of both a	acute	and chronic complications of diabetes
	(C)	Presence of adequate energy and e	ndura	ance for work performance
	08	Urine sugar testing		
169.	Cho	ose the correct statement :		
	(i)	Type I diabetes can consume alcoho	ol with	nout omitting any food.
	(ii)	Metabolism of alcohol does not requ		1281
	(A)	(i) only correct	98	Both (i) and (ii) are correct
	(C)	(ii) only correct	(D)	Both (i) and (ii) are wrong

170.	Illita	nepatic obstruction and venous con	gesiic	on leads to a complication called as
	(A)	hypertension	(B)	hepatitis
	1 5.	varices	(D)	coma
171.	Deat	h of hepatocytes is termed as		
	(A)	Fibrosis	B	Necrosis
	(C)	Hepatitis	(D)	Steatosis
	1			
172.	TPN.		st per	centage of patients receiving long-term
	(A)	Coma		
	of the same of the	Cancer		
	(C)	Chronic renal failure		
	(D)	Cirrhosis		
173.	Feed	ing can be directly given inside the	stoma	ch through — feeding.
	(A)	Parenteral		
	(B)	Esophagostomy		
	4	Percutaneous endoscopic gastrosto	my	
	(D)	Perculaneous endoscopic jejunosto	my	
174.		——— diet is recommended in atom	nic co	nstipation.
	(A)	High residue	(B)	Low residue
	(C)	Low fibre	S	High fibre

hypothyroidism (B) hyper thyroidism (C) fever (D) ulcer 176. Which in the substrate for the enzyme salivary amylase (A) maltase (B) starch (C) lactose (D) sucrose 177. Hydrolysis of peptide bonds in protein molecule is catalysed by ———————————————————————————————————	175.	Hyp	er cholesterolemia is observed in
(C) fever (D) ulcer 176. Which in the substrate for the enzyme salivary amylase (A) maltase (B) starch (C) lactose (D) sucrose 177. Hydrolysis of peptide bonds in protein molecule is catalysed by ———————————————————————————————————		(1)	hypothyroidism
(D) ulcer 176. Which in the substrate for the enzyme salivary amylase (A) maltase (B) starch (C) lactose (D) sucrose 177. Hydrolysis of peptide bonds in protein molecule is catalysed by ———————————————————————————————————		(B)	hyper thyroidism
176. Which in the substrate for the enzyme salivary amylase (A) maltase (B) starch (C) lactose (D) sucrose 177. Hydrolysis of peptide bonds in protein molecule is catalysed by ———————————————————————————————————		(C)	fever
(A) maltase (C) lactose (D) sucrose 177. Hydrolysis of peptide bonds in protein molecule is catalysed by ———————————————————————————————————		(D)	ulcer
(A) maltase (C) lactose (D) sucrose 177. Hydrolysis of peptide bonds in protein molecule is catalysed by ———————————————————————————————————			
(A) maltase (C) lactose (D) sucrose 177. Hydrolysis of peptide bonds in protein molecule is catalysed by ———————————————————————————————————	176	Whic	ch in the substrate for the enzyme salivary amylase
(C) lactose (D) sucrose 177. Hydrolysis of peptide bonds in protein molecule is catalysed by ———————————————————————————————————	170.		
177. Hydrolysis of peptide bonds in protein molecule is catalysed by ———————————————————————————————————			[[[선생님 전 내용] 이 글이는 집 같은 [전 시 시 시 시 전 전 시 시 시 시 시 시 시 시 시 시 시 시
pepsin (B) dehydrogenase (C) peptidyl transferase (D) carboxy peptidase 178. The process of continuous degradation and resynthesis of protein is termed as Protein turnover (B) Denaturation (C) Renaturation (D) Protein Detoxification 179. Pick out the protein used in the process of making artificial fibers Globular proteins		(0)	(b) sucrose
pepsin (B) dehydrogenase (C) peptidyl transferase (D) carboxy peptidase 178. The process of continuous degradation and resynthesis of protein is termed as Protein turnover (B) Denaturation (C) Renaturation (D) Protein Detoxification 179. Pick out the protein used in the process of making artificial fibers Globular proteins			
(B) dehydrogenase (C) peptidyl transferase (D) carboxy peptidase 178. The process of continuous degradation and resynthesis of protein is termed as Protein turnover (B) Denaturation (C) Renaturation (D) Protein Detoxification 179. Pick out the protein used in the process of making artificial fibers Globular proteins	177.	Hydi	rolysis of peptide bonds in protein molecule is catalysed by ———————————————————————————————————
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(D) carboxy peptidase 178. The process of continuous degradation and resynthesis of protein is termed as Protein turnover (B) Denaturation (C) Renaturation (D) Protein Detoxification 179. Pick out the protein used in the process of making artificial fibers Globular proteins		(B)	dehydrogenase
178. The process of continuous degradation and resynthesis of protein is termed as Protein turnover (B) Denaturation (C) Renaturation (D) Protein Detoxification 179. Pick out the protein used in the process of making artificial fibers (G) Globular proteins		(C)	peptidyl transferase
Protein turnover (B) Denaturation (C) Renaturation (D) Protein Detoxification 179. Pick out the protein used in the process of making artificial fibers Globular proteins		(D)	carboxy peptidase-
Protein turnover (B) Denaturation (C) Renaturation (D) Protein Detoxification 179. Pick out the protein used in the process of making artificial fibers Globular proteins			
 (B) Denaturation (C) Renaturation (D) Protein Detoxification 179. Pick out the protein used in the process of making artificial fibers Globular proteins 	178.	The	process of continuous degradation and resynthesis of protein is termed as
 (C) Renaturation (D) Protein Detoxification 179. Pick out the protein used in the process of making artificial fibers Globular proteins 		1	Protein turnover
(D) Protein Detoxification 179. Pick out the protein used in the process of making artificial fibers Globular proteins		(B)	Denaturation
179. Pick out the protein used in the process of making artificial fibers Globular proteins		(C)	Renaturation
Globular proteins		(D)	Protein Detoxification
Globular proteins			
Globular proteins	179	Pick	out the protein used in the process of making artificial fibers
<u>보면 보다 살아가 되어 보면서 하는 것이다. 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은</u>	110.	B	[12] [12] [13] [14] [14] [15] [15] [15] [15] [15] [15] [15] [15
		(B)	Coagulated proteins
(C) Metalloproteins			그녀를 하고 있는 이 경기를 보면 있습니다. 그런 경기를 하는 것이 되는 것이 되는 것이 되는 것이 없는 것이다.
(D) Scleroproteins		Total I	

180.	(i)	This hormone has the historical imsynthesized	porta	nce because it is the first hormone to be
	(ii)	It was discovered by Bayli's and sta	arting	; in 1902.
	The	above statements are referring to		
	(A)	Cholecytokinin	B	Secretin
	(C)	Renin	(D)	Gastrin
181.	The	hormone adrenalin and the pigme	nt me	elanin are synthesised from this amino
	acid			
	W.	Tyrosine	(B)	Lysine
	(C)	Tryptophan	(D)	Leucine
182.	Whi	ch of the following statement is inco	rrect	regarding methionine?
	(A)	involved in transmethylation		
	(B)	it protects the liver from damage b	oy poi	sons
	(C)	fatty liver can be cured by methior	nine	
	S	it is a component of glutathione		
183.	Whi	ch of the following statement is inco	rrect?	
	(A)	Calcium is well absorbed at normabsorption is suppressed	nal pF	H. If the pH becomes more alkaline, Ca
	(B)	Excess of phosphate lowers Ca abs	sorpti	on
	(C)	Oxalic acid and Oxalates present i	in sev	eral foods lower Ca absorption
	S	Vitamin D lower calcium absorption	on fro	m intestine
184.	Whi	ch of the following is not a Hydrolas	es?	
	(A)	Peptidases	(B)	Glycosidases
	(C)	Esterase's	S	Oxidase

185.		are the most abundant orga	anic m	olecule of the living system.
	(A)	Carbohydrates	S	Proteins
	(C)	Lipids	(D)	Vitamins
186.	Uns	aturated fatty acid exhibits		
	S	Geometric isomerism	(B)	Optical isomerism
	(C)	Tautomerism	(D)	Mutarotation
187.			to gly	colysis and TCA cycle for the oxidation
		ucose.		
	(A)	Glycogenolysis		
	(B)	Glucoreogenesis		
		Hexose Monophosphate Shunt		
	(D)	Citric acid cycle		
100	TD1			
188.		specific optical rotation of a freshly		
	(A)	+110.2°	(B)	-112.2°
		+112.2°	(D)	-110.2°
	250 V/			
189.	Solu	ble fibre in general helps in		
		clearance of LDL cholesterol		
	(B)	fatty acid absorption		
	(C)	accumulation of steroids		
	(D)	clearance of HDL cholesterol	* 4	
190.	Iden	tify the lubricant present in bone jo	ints:	
	(A)	Inulin	(25)	Hyaluronic acid
	(C)	Heparin	(D)	Chondroitin sulfate

191.		——— are preservative added in ja	uns, je	emes, margarine etc.
	1	Sodium Benzoate	(B)	Sorbates
	(C)	Acetates	(D)	Nitrites
192.	Gas	production is a type of spoilage in m	ilk ca	used by
	(A)	Coliform bacteria		
	(B)	Clostridium species		
	(C)	Yeast		
- 1	S	All the above		
193.		ptoms like blurred vision, diffic kness, nausea and vomiting is due to		in swallowing and speaking muscle food poisoning caused by
	(A)	vibrio cholerae		
	D	clostridium botulinum		
	(C)	salmonella typhi		
	(D)	shigella sonnei		
194.	Gam	ma rays and X-rays can be used to		
	(A)	prevent the sprouting of fruits and	vege	tables
	(B)	sterilize food	William	
	(C)	kill insects and parasitic worms		
	9	all the above		
195.	Temp	peh is a fermented food obtained by	the ac	ction of
	(A)	Zygosacchromyces		
	(B)	Pediococcus halophiles		
	(C)	Torulophilus		
	(Th	Rhizopus oligospores		

196.	Ran	cidity in butter is due to
	1	Hydrolysis
	(B)	Carboxylation
	(C)	Lipolysis
	(D)	Fermentation
197.	The	spoilage in bakery products are caused mainly by
	18	molds
	(B)	virus
	(C)	algae
	(D)	protozoa
198.	Nosc	ocomical infection is mainly caused by ———————————————— in the clinical setting.
	A	Air droplet
	(B)	Oxidation
	(C)	Decomposition
	(D)	Rainfall
199.		is the dark organic matter in soil.
	(A)	Commensalism
	1	Humus
	(C)	Ammensalism
	(D)	Mucigel
200.	The	chemical stimuli which enables the bacterial cell to move is called as
	(A)	Phototaxis
	0	Chemotaxis
	(C)	H antigent
	(D)	Tumbles

SEAL