

VIDYASAGAR UNIVERSITY
MIDNAPORE

COMMON ENTRANCE TEST FOR PG ADMISSION, 2019

Question Booklet No. **1714777**

Full Marks : 200

Subject: **BMLSM**

Question Booklet Series: **B**

Subject Code No.: **17**

Answer all the questions. Each question has the same weightage.

Read the following instructions carefully before you start answering.

INSTRUCTIONS

1. The question Booklet is printed in four Series e.g. (A), (B), (C) and (D). The candidate has to indicate the Series of the question booklet in the space provided in the OMR Answer Sheet . For example, if the candidate gets Series (A) booklet, he / she has to indicate on the front side of the OMR Answer Sheet with Black ink ball point pen only as indicated below:



2. There are 50 questions inside this question booklet. Immediately after you have been instructed to open this question booklet, ensure that any page / question is not missing / not printed / torn /repeated. In case you find any defect anywhere in the question booklet, immediately get it replaced by the Invigilator.
3. Each question carries 4 marks. 1(one) mark will be deducted for each wrong answer(negative marking).
4. Write your Form No and put signature in the space provided.
5. Before answering, write down the necessary information on the OMR Answer Sheet as per your Application Form and Admit Card in the specific space provided.
6. With each question you will find 4 possible answers marked by the letters A, B, C & D. Read each question carefully and find out which answer, according to you, is correct / most appropriate / best. Indicate your answer by darkening the appropriate circle completely in the OMR Answer Sheet corresponding to the question. For marking answers, use black ink ball pen only. If 'B' is the correct answer in a case, mark as below:



7. Do not fold or make any stray marks on the OMR Answer Sheet.
8. You can use the blank space of the last page for rough work. Do not tear it off from the Question Booklet.
9. After the examination has been over, you must submit OMR Answer Sheet to the Invigilator.
10. OMR Answer Sheet is designed for computer evaluation. If you do not follow the instructions given above and shown in the OMR Answer Sheet, it may make evaluation by computer difficult. Any resultant loss to the candidate on the above account shall be of the candidate only.
11. No candidate shall be allowed to use Mobile phone. Log tables or Calculator of any description in the examination hall / room.

1. Which of the following is the counter stain of Gram staining?
 (A) Iodine (B) Crystal violet (C) Safranin (D) Methylene blue
2. Chloride shift is associated with-
 (A) Efflux of water from RBC (B) Influx of water in RBC
 (C) Both efflux and influx of water from and in RBC (D) Influx of glucose in RBC
3. Polyuria is
 (A) Large production of urea. (B) Large production of uric acid
 (C) Large production of urine sample (D) All of the above
4. ADH acts on
 (A) Proximal convoluted tubule (B) Henle's Loop
 (C) Distal convoluted tubule (D) Distal convoluted tubule and collecting tubule
5. Heme synthesis is associated with-
 (A) Glycine (B) Methionine (C) Proline (D) Tyrosine
6. Cell within cell known as-
 (A) Ribosome (B) Nucleus (C) Mitochondria (D) Golgi body
7. Hemophilia B is associated with-
 (A) Deficiency of coagulation factor- VIII (B) Deficiency of coagulation factor- XII
 (C) Deficiency of coagulation factor- IX (D) Deficiency of coagulation factor- X
8. Which one is not the steroid hormone?
 (A) Estradiol (B) aldosterone (C) Testosterone (D) Parathormone
9. Glycogen in tissue can be detected by
 (A) PAF staining (B) PAS reaction (C) PAS staining (D) PAF reaction
10. From m- RNA, C-DNA synthesized by-
 (A) PCR (B) RT-PCR (C) Q-PCR (D) Real time PCR
11. Hemosiderosis is associated with-
 (A) Excess deposition of copper in visceral organ
 (B) Excess deposition of iron in visceral organ
 (C) Low level of iron in visceral organ
 (D) Excess level of magnesium in visceral organ
12. Golgi tendon reflex known as-
 (A) Stretch reflex (B) Inverse Stretch reflex
 (C) Extension reflex (D) Postural reflex
13. Non competitive inhibitor changed the enzyme kinetics by-
 (A) Decreasing the enzyme velocity without decreasing Km value
 (B) Decreasing the enzyme velocity along with decreasing Km value
 (C) Decreasing the enzyme affinity to the substrate
 (D) Increasing the enzyme affinity to the substrate
14. In extracellular buffer system, major buffer is-
 (A) Phosphate buffer (B) Protein buffer
 (C) Biocarbonate buffer (D) Amonia buffer
15. Anisocyte is
 (A) Red blood cells are of unequal shape (B) Red blood cells are of unequal size
 (C) Red blood cells are smaller in size (D) Red Blood cells are of smaller in shape

16. Which of the following is an intracellular parasite?
 (A) Staphylococcus (B) Mycobacterium (C) Streptococcus (D) Bacillus
17. Typhoid fever is caused by
 (A) Salmonella typhimurium (B) Salmonella enteritidis
 (C) Salmonella typhi (D) Klebsiella pneumonia
18. '3-Ds' pathological state noted due to deficiency of
 (A) Folic acid (B) Niacin (C) Pyridoxine (D) Thiamine
19. Alkaline tide is noted
 (A) Before taking a meal (B) After taking a meal
 (C) During fasting for long period (D) During fasting for short period
20. Ovulation can be detected by-
 (A) Surge of LH in plasma (B) Surge of oestradiol and then LH in plasma
 (C) Surge of progesterone in plasma (D) Surge of prolactin in plasma
21. RAS associated hypertension where RAS stands for-
 (A) Reticular Activating System (B) Reticular Accelerating System
 (C) Renin Angiotensin system (D) Renin Aggravating Systems
22. Which of the following is selective media?
 (A) Nutrient agar (B) MacConkey arar
 (C) Luria-Bertani broth (D) Tryptic Soy broth
23. Which of the following does not kill endospores?
 (A) autoclaving (B) incineration
 (C) hot-air sterilization (D) pasteurization
24. Site of β - oxidation of fatty acids is-
 (A) Cytoplasm (B) Golgi body
 (C) Cytoplasm & Mitochondria (D) Mitochondria
25. Which one is proper arrangement of layers in G.I tract from outside to inside-
 (A) Serous \rightarrow Muscular \rightarrow Sub-mucosa \rightarrow Mucosa
 (B) Muscular \rightarrow Serous \rightarrow Mucosa \rightarrow Sub-mucosa
 (C) Serous \rightarrow Mucous \rightarrow Sub-mucosa \rightarrow Muscular
 (D) Muscular \rightarrow Mucosa \rightarrow Sub-mucosa \rightarrow Serous
26. Ketone body in urine can be detected by-
 (A) Ehrlich Test (B) Benzidine Test (C) Benedict's test (D) Rothera's test
27. 1 g of haemoglobin can transport
 (A) 1.34 ml of oxygen (B) 2.34 ml of oxygen (C) 3.34 ml of oxygen (D) 1.54 ml of oxygen
28. In chromatogram, the identification of particular molecule in specific band is performed by-
 (A) T_f value (B) H_f value (C) R_f value (D) R_i value
29. Apoptosis is related with one of the mitochondrial component known as-
 (A) Cytochrome- a (B) Cytochrome- c (C) Cytochrome-b (D) Cytochrome- a_3
30. Plasma cells are
 (A) Lymphocytic processing adjuvant
 (B) Lymphocytes processing a type of specific antibody
 (C) Lymphocytes processing type of nonspecific antibody
 (D) None of the above

31. The definitive host for *Plasmodium vivax* is
 (A) human. (B) Anopheles. (C) a sporocyte. (D) a gametocyte.
32. Brain cancer due to random cell division of
 (A) Neurons (B) Neuroglial cells (C) Both A & B (D) Connective tissues
33. 3- 'Ps' are associated with-
 (A) Hypertension (B) CVD (C) Diabetes (D) Peptic ulcer
34. Foam cells are modified
 (A) Monocytes (B) Neutrophils (C) Lymphocytes (D) Basophils
35. Metabolic water produced per day in adult body-
 (A) 500 ml (B) 100ml (C) 50ml (D) 300ml
36. At hinge part of monomeric form of immunoglobulin, the amino acid present dominantly-
 (A) Proline (B) Serine (C) Cysteine (D) Phenyl alanine
37. Most of the visceral organs are innervated by-
 (A) Trigeminal nerve (B) Hypo glossal nerve
 (C) Glosopharyngeal nerve (D) Vegus nerve
38. Effect of high carbohydrate diet intake and epinephrine on blood sugar level known as-
 (A) Monovariate statistics (B) Bivariate statistics
 (C) Multivariate statistics (D) Non-linear statistics
39. Which one is odd out of these-
 (A) Peptic ulcer (B) Flatulence (C) Constipation (D) Pancreatitis
40. Level of HDL- C in normal adult male is-
 (A) 20-40 mg/dl (B) 30-60 mg/lit (C) 30-60 mg/dl (D) 20- 40 mg/ lit
41. Normal albumin to globulin ratio in blood should be within
 (A) 0.8-2.0 (B) 0.9-1.5 (C) 0.3-0.7 (D) 0.6-0.9
42. Terminating codon is
 (A) AAU (B) GAU (C) UAG (D) AUA
43. Sarcomere is distance between successive
 (A) M- line (B) Z-line (C) O-zone (D) H-zone
44. Which of the following staining method is used to observe *Mycobacterium tuberculosis*?
 (A) Gram stain (B) Schaeffer-Fulton stain
 (C) Negative stain (D) Ziehl-Nelson stain
45. Ear is associated with-
 (A) Audition (B) Equilibrium (C) Cognition (D) Both A & B
46. Isoniazid is used to treat
 (A) Diarrhoea (B) Tuberculosis (C) Typhoid (D) Dengue
47. Uracil is known as
 (A) Methylated thymine (B) Methylated cytosine
 (C) Demethylated thymine (D) Demethylated cytosine
48. Which of the following compounds has the greatest amount of energy for a cell?
 (A) C02 (B) ATP (C) lactic acid (D) glucose

49. How many arms are present in t-RNA-

(A) 3

(B) 4

(C) 5

(D) 6

50. Spermatids have the chromosome number

(A) $22+X$ or $22+Y$

(B) $23+X$ or $23+Y$

(C) only $22+X$

(D) Only $22+Y$