



Date of issue :  Centre :

Sup. Sign. :  Seat No. :

ND-2006000101030002-O Seat No. \_\_\_\_\_

First Year M. B. B. S. Examination

December - 2021

Biochemistry : Paper - II

(New CBME Pattern)

Time : Hours  [Total Marks : 80]

Instruction :

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Fill up strictly the details of signs on your answer book.

Name of the Examination :

First Year M. B. B. S.

Name of the Subject :

Biochemistry : Paper - II

Subject Code No. :

2 0 0 6 0 0 0 1 0 1 0 3 0 0 0 2

Seal No. :

Student's Signature

Section A: MCQ (20 marks)

Instructions:

- All questions are compulsory
  - Each MCQ has only one correct answer
  - One mark for correct answer. No negative marking
- 1 Michaelis constant ( $K_m$ ) of an enzyme is
- Dependent upon the enzyme concentration
  - Numerically equal to  $\frac{1}{2} V_{max}$
  - Independent of pH
  - Numerically equal to substrate concentration at  $\frac{1}{2} V_{max}$

2. Creatine kinase level in serum is increased in:
  - a. Myocardial infarction
  - b. Infective hepatitis
  - c. Prostate cancer
  - d. Intravascular hemolysis
3. Which enzyme is used for preparing recombinant DNA molecules?
  - a. Restriction endonuclease
  - b. DNA Polymerase
  - c. RNA Polymerase
  - d. Topoisomerase
4. Southern blotting analysis is used for all, except:
  - a. Detecting the presence of a mutant gene
  - b. Studying a microarray
  - c. Visualizing DNA profile
  - d. Detecting Restriction fragment length polymorphism
5. Deficiency of thyroxine results in:
  - a. Graves disease
  - b. Cushing's syndrome
  - c. Myxedema
  - d. Thyrotoxicosis
6. Heme biosynthesis does not occur in
  - a. Osteocytes
  - b. Liver
  - c. RBC
  - d. Erythroid cells of marrow
7. Which vitamin is required for carboxylation of clotting factors
  - a. Vitamin A
  - b. Vitamin D
  - c. Vitamin E
  - d. Vitamin K
8. Mitochondrial DNA is
  - a. Closed circular
  - b. Nicked circular
  - c. Linear
  - d. Open circular
9. Northern blot is for
  - a. DNA
  - b. RNA
  - c. Protein
  - d. DNA protein interaction

ND-2006000101030002-O]

2

[Contd...

10 All are regulatory sequences on DNA, EXCEPT:

- a. Attenuator sequences
- b. Enhancer sequences
- c. Consensus sequences
- d. Promoter sequences

11 Tumor suppressor genes are sometimes called:

- a. Antioncogenes
- b. Proto Oncogenes
- c. Oncogenes
- d. Proximate Carcinogens

12 Conversion of allopurinol to alloxanthine is an example of:

- a. Competitive inhibition
- b. Uncompetitive inhibition
- c. Non-competitive inhibition
- d. Suicide Inhibition

13 Radioisotopes used for treatment of thyroid cancer is

- a.  $I^{131}$
- b.  $Au^{198}$
- c.  $Cs^{137}$
- d.  $Ta^{182}$

14 Chaperon proteins play a role in

- a. Protein folding
- b. Protein misfolding
- c. Denaturation
- d. All the above

15 During denaturation, all the levels of a protein structure are disrupted, Except:

- a. Primary Structure
- b. Secondary Structure
- c. Tertiary Structure
- d. Quaternary Structure

16 Catabolite gene activator protein along with cyclic AMP (CAP - cAMP) is associated with the function of

- a. Lac operon
- b. Tryptophan operon
- c. Both of the above
- d. None of the above

17 Corona virus is positive stranded RNA virus having lipid bilayer with M spike protein in it. Which of the following nitrogen base is absent in genome of this virus?

- a. Guanine
- b. Cytosine
- c. Thymine
- d. Adenine

ND-2006000101030002-O]

3

[Contd...

18 The receptor of the following hormone has intrinsic tyrosine kinase activity

- a. Insulin
- b. ADH
- c. Steroids
- d. Glucagon

19 Positive nitrogen balance is seen in

- a. Starvation
- b. Wasting diseases
- c. Growing age
- d. Intestinal malabsorption

20 Transmethylation of guanidoacetate gives

- a. Creatine
- b. Creatinine
- c. Choline
- d. n-methyl nicotinamide

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