

**ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, LUCKNOW**  
**MBBS DEGREE EXAMINATION - 1st PROF PROFESSIONAL REGULAR**  
**EXAM - AUGUST 2024**

**PHYSIOLOGY - PAPER - I**

**SECTION A - Multiple Choice Questions (MCQs)**

**PAPER CODE: 2411130002**

**SET: C**

**Note: Choose one correct answer in the OMR sheet provided. No overwriting should be done.**

**Time: 20 Minutes**

**(20 x 1 = 20 MARKS)**

1 Major contributor of Plasma osmolality is:

- a) Plasma Proteins
- b) Glucose
- c) Sodium Ion
- d) Urea

2 Nerve growth factor in brain is synthesized by:

- a) Microglia
- b) Oligodendrocytes
- c) Fibrous Astrocytes
- d) Protoplasmic Astrocytes

3 Gibbs-Doman effect is seen on the distribution of:

- a) Diffusible ions

- b) Non-diffusible ions
- c) Protein
- d) Osmotically active particles

4 Which nerve fibre carries fast pain?

- a) Type A $\alpha$  Fibres
- b) Type A $\gamma$  Fibres
- c) Type A $\delta$  Fibres
- d) Type C Fibres

5 Gastric acid secretion is inhibited by:

- a) Histamine
- b) Gastrin
- e) Gastrin
- f) Secretin
- b) Vagal stimulation

6. Which of the following DOES NOT affect motility of

- a) Gastrin
- b) Secretin
- c) Cholecystokinin
- d) Ghrelin

7 Molecular Motors are:

- a) Myosin and Myoglobin
- b) Dynein and Kinesin

- e) Calmodulin and G Proteins
- d) Troponin I and C

8 Which of the following provides around 60% energy to the heart in basal condition?

- a) Carbohydrates
- b) Fats
- c) Amino acids
- d) Ketones

9 Which of the following change is seen in emphysema?

- a) Increased Total Lung Capacity
- b) Decreased Residual Volume
- c) Increased FEV1
- d) Increased Vital Capacity

10 Stability of alveoli is maintained by:

- a) Residual air
- b) Surface tension
- c) Positive Intrapleural pressure
- d) Negative Intrapleural pressure

11 "Oxygenation of hemoglobin lowers its affinity for carbondioxide" is called:

- a) Bohr effect
- b) Bainbridge effect
- c) Hering Breur effect
- d) Haldane effect

12 Which is the best parameter for analysis of Hypoxic hypoxia?

- a) Arterial  $pO_2$
- b) Arterial  $pCO_2$
- c) Venous  $pO_2$
- d) A-V  $pO_2$  difference

13 Preload of the heart is determined by:

- a) Stroke Volume
- b) End diastolic volume
- c) End systolic volume
- d) Systemic vascular resistance

14 First reactive change after hemorrhage is:

- a) Increased Cortisol levels
- b) Increased Catecholamine levels
- c) Vasoconstriction
- d) Tachycardia

15 Independent P wave and QRS complex indicates:

- a) Depression of SA node
- b) Early ventricular repolarization
- e) Slowing of conduction at AV Node
- d) Failure of conduction at AV Node

16 First heart sound occurs in:

- a) Isotonic relaxation phase
- b) Isotonic contraction phase
- c) Isovolumetric relaxation phase
- d) Isovolumetric contraction phase

17 Which of the following is NOT a derivative of Monocytes?

- a) Kupfer Cell
- b) Mast Cell
- c) Microglia
- d) Alveolar macrophages

18 Antibodies which can easily cross the placenta:

- a) IgA
- b) Ig E
- c) Ig G
- d) Ig M

19 Conjugation of Bilirubin occurs in:

- a) Erythrocyte
- b) Lymphocyte
- c) Pneumocyte
- d) Hepatocyte

20 Maximum water absorption in the GIT occurs in:

- a) Stomach
- b) Ileum

c) Jejunum

d) Colon

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