

**MBBS I (First) Professional Examination 2015-16****Course Code:**MBS102**Paper ID:** 0322205**Physiology -I****Time:** 2 Hours 40 Minutes**Max Marks:** 40

**Note:** Attempt all questions. Draw proper diagrams to support your answer.

**Part 'B'**

1. Define B.P. Describe the baroreceptor mechanisms for regulation of systemic arterial blood pressure. (2+8)
2. Write short notes on: (3x4=12)
  - a) Active transport
  - b) Hemostasis
  - c) Glomerular filtration rate
  - d) Cholecystokinin
3. Compare and differentiate between: (2x4=8)
  - a) Fetal hemoglobin and adult hemoglobin
  - b) 1<sup>st</sup> heart sound and 2<sup>nd</sup> heart sound
  - c) Hepatic bile and gall bladder bile
  - d) Forced vital capacity and timed vital capacity
4. Briefly describe: (5x2=10)
  - a) Mechanisms of HCl secretion
  - b) Mechanisms for carbon dioxide transport in blood

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**Student's Signature**

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**Course Code:**MBS102**Student's Name**

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**Invigilator's Signature**

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**Paper ID:** 0322205**Physiology - I****Part 'A'****Time:** 20 Minutes**Max Marks:** 10

- Note:**
1. Attempt all questions and return this part of the question paper to the invigilator after 20 Minutes.
  2. Please tick (✓) correct one only. Cutting, overwriting or any other marking are not allowed.
  3. For answering please use Ball- pen only.

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FirstRanker's choice
- d) Lymphocyte  
FirstRanker's choice increased number of erythrocyte is called:
- Thrombocytosis
  - Polycythemia
  - Granulocytosis
  - Reticulocytosis
- Q.3 From which one of the following sites, vitamin B<sub>12</sub> is absorbed:
- Stomach
  - Duodenum
  - Jejunum
  - Ileum
- Q.4 Hemophilia A is characterized by the deficiency of clotting factor:
- VII
  - VIII
  - IX
  - X
- Q.5 Immunoglobulin is secreted by:
- Neutrophil
  - Plasma cells
  - Monocyte
  - Basophil
- Q.6 All of the following are components of gastric juice except:
- Pepsinogen
  - HCL
  - Mucous
  - Gastrin
- Q.7 Bile is required for digestion of:
- Fat
  - Protein
  - Carbohydrate
  - Cellulose
- Q.8 Deficiency of which of the following fat soluble vitamins will lead to coagulation defect:
- A
  - D
  - E
  - K
- Q.9 Which of the following glands contribute maximum % of daily salivary secretion:
- Parotid
  - Submaxillary
  - Respiratory acidosis
  - Metabolic alkalosis
  - Respiratory alkalosis
- Q.18 Which one of the following hormones will cause contraction of gall bladder:
- Gastrin
  - Cholecystokinin
  - Secretin
  - Insulin
- Q.19 P wave of ECG is caused by depolarization of:
- Depolarization of ventricle
  - Repolarization of ventricle
  - Depolarization of Atria
  - None
- Q.20 Voluntary hyperventilation will:
- Reduce alveolar PO<sub>2</sub>
  - Increase alveolar PCO<sub>2</sub>
  - Decrease arterial PCO<sub>2</sub>
  - Decrease arterial PO<sub>2</sub>
- b) micror microcostal  
c) Rectus abdominis  
d) Sternocleidomastoid
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- Q.11 Cyanosis is produced when concentration of:
- Total hemoglobin is decreased
  - Methemoglobin is decreased
  - Reduced hemoglobin is increased
  - Oxyhemoglobin is increased
- PTO
- Q.12 Pulmonary surfactant is required to prevent:
- Collapse of alveoli
  - High intrapleural pressure
  - Excess expansion of alveoli
  - Entry of microorganisms
- Q.13 Which one of the following hormones acts on epithelial cells of collecting duct for water reabsorption:
- Endothelin I
  - Angiotensin II
  - Aldosterone
  - Vasopressin
- Q.14 Stroke volume in healthy adult is around:
- 180 ml
  - 120 ml
  - 70 ml
  - 40 ml
- Q.15 In hypoproteinemia, edema develops due to:
- High hydrostatic pressure in capillary
  - Low hydrostatic pressure in interstitium
  - High oncotic pressure in interstitium
  - Low oncotic pressure in capillary
- Q.16 Max rise of the pressure in the ventricle occurs during
- Atrial systole
  - Isovolumetric contraction
  - Diastasis
  - Protodiastole
- Q.17 Severe vomiting leads to:
- Metabolic acidosis