

## MBBS I (First) Professional Examination 2018-19

Paper ID: 03219103 Course Code:MBS102

Physiology -I

Time: 2 Hours 40 Minutes Max Marks: 40

Note: Attempt all questions. Draw proper diagrams to support

your answer.

Part 'B'

1. What is Erythropoiesis? Describe the various stages, sites and factors affecting it.

Define Cardiac Output? What are the methods of measuring it? Enumerate the factors on which it depends.

Write in brief: (5x4=20)

FVC

Bohr's effect b)

Active Immunity c)

d) Renin Angiotensin System

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Roll No.		Student's Name
Student's Signature		Invigilator's Signature
	A. ( )	
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Course Code:MBS102		Paper ID: 03219103

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 ( $\checkmark$ ) correct one only. Cutting, overwriting or any other marking are not allowed.

3. For answering please use Ball- pen only.



FirstRanker com First)ankell%clobithe hemoglobin is in red

blood cells 41% of the formed elements in the

- blood are red blood cells
- Which of the following statements is not 0.2 correct
  - Heparin is a naturally occurring a) anticoagulant
  - b) Highly basic protein, protamine is used clinically to neutralize heparin
  - Coumarin derivatives inhibit the c) action of Vit C
  - Vit K is required for the conversion d) of glutamic acid residues to ycarboxyglutamic acid residues
- O.3 Which of the following proteins involved in clotting is not Vit K dependent:
  - Factor II
- Factor V d) Factor VII
- Which of the following statements is not correct:
  - A large share of the antibodies a) formed during the primary response are of IgM type
  - IgE is specially involved in allergy b)
  - Suppressor T cells are capable of c) suppressing the function of both cytotoxic & helper T cell
  - d) IgG antibodies have 10 binding sites
- Renal plasma flow can be measured by performing:
  - PAH clearance
  - b) Inulin clearance
  - Urea clearance
  - Creatinine clearance
- Movement of which muscle accounts for 75% of change in intrathorasic volume during quiet inspiration:
  - Diaphragm a)
  - Internal intercostals b)
  - External intercostals c)
  - d) Anterior abdominal wall muscles
  - a) Thin descending limb of loop of henle
  - b) Thin ascending limb of loop of henle.
  - Proximal tubule
  - d) Collecting duct
- Q.15 In which part of loop of henle is the movement of Na<sup>+</sup>Cl<sup>-</sup> passive: a) Thin descending loop

  - b) Thin ascending limb
  - c) Thick ascending limb
  - d) Descending part of proximal tubule
- Q.16 The daily production of H+ from CO2 is primarily buffered by which of the following:
  - a) Extracellular bicarbonate
  - RBC bicarbonate b)
  - Hemoglobin c)
  - d) Plasma protein
- Q.17 The filtration fraction is increased by which of the following:
  - Increasing renal blood flow a)
  - Increasing afferent arteriolar b) resistance
  - arteriolar c) Increasing efferent resistance
  - Increasing plasma oncotic pressure d)
- Metabolic acidosis is caused by: O.18
  - Hypoaldosteronism < a) Hyperventilation Hypovolemia Hypokalemia
  - b)
  - c) d)
- 0.19 Most of the glucose filtered through glomerulus undergoes reabsorption in: a) Proximal tubule

  - Ascending limb of loop of henle b)
  - Descending limb of loop of henle
  - d) Distal tubule
- Na+ is reabsorbed from basolateral surface of renal epithelial cells by which of the following:
  - Na glucose co transport a)
  - b)
  - Na-K pump Facilitated diffusion c)
  - Solvent drag

systolic pressure. www.ffirstRanker.com

Diastolic pressure plus one third of

pulse pressure

coourc to cyt

- Diastolic pressure plus one third of c) pulse pressure
- d) Systolic pressure plus one third of diasfolic pressure
- Which one of the substance is a naturally occurring anticoagulant in the circulating
  - Albumin
  - b) Heparin c) PAH
  - d)
- Insulin

a)

- Q.10 Surfactant in lung alveoli is produced by:
  - Type II alveolar epithelial cells a)
  - b) Type I alveolar epithelial cells
  - APUD cells
  - Pulmonary alveolar macrophages d)
- Q.11 Receptors in carotid body and aortic bodies are stimulated by:
  - Rise in its PCO<sub>2</sub>
  - Rise in its H<sup>+</sup> concentration Decline in its PO<sub>2</sub> b)
  - c)
  - All of the above d)
- Q.12 Which one of the vessel types is known as capacitance vessels:
  - a) Large arteries
  - Aterioles b)
  - c) Capillaries
- Q.13 The buffering capacity of hemoglobin is because of which amino acid:
  - Valine
  - b) leucine
  - Histidine c)
  - d) Arginine
- Q.14 The difference between cortical & juxtamedullary nephrons is in the length of:

