

## www.FirstRanker.com

## First Year MBBS Examination I MBBS PHYSIOLOGY PAPER II

Time: 3 hours Date: 11-04-2023 Max Marks: 100

Instructions: INSTRUCTIONS: Attempt all questions in both sections: (Use separate answer book for each section)

## **Section 1**

.	Fill in the blanks: (6)		
a.	Life span of RBC is		days.
b.	. Intrinsic factor is secreted by which		
	cells.		
C.	Cholelithiasis is presence of stone in		
	- O Silk		
d.	d. Capillaries are called as		
	vessels.		
e.	Erythropoietin is produced n	nainly by	/
f	Sympathetic stimulation of p	narotid a	land
١.	-		of saliva.
	Choose the correct option		ollowing
	multiple choice questions:	• •	
a.	Normochromic macrocytic F	२BCs are	e found in

a) Megaloblastic anemia b) Iron deficiency

anemia c) Hemorrhagic anemia d) Sickle cell



- b. Shift of oxygen-haemoglobin dissociation curve to the right can occur due to a)
   Decreased H ion concentration b) Increased
   CO2 concentration c) Decreased temperature
   d) Presence of large quantities of foetal haemoglobin
- c. The law relating to distending pressure and tension in a blood vessel wall is, a) Frank-starling's law b) Marey's law c) Law of Laplace d) Einthoven's law
- d. Tendency of turbulent flow is maximum in; a)
   Arterioles b) Capillaries c) Aorta d) Inferior
   vena cava
- 3. A 40-year old male met with an accident. He fell on the ground and got multiple injuries. He was taken to the casualty of a nearby hospital after 1 hour. He was bleeding profusely from his wounds. He was drowsy. On examination, it was found that his radial pulse was 115/ mins and thready. His skin was pale, extremities were cold. Arterial blood pressure was 70/50mm of Hg. a) What is your probable diagnosis? b) What was cause of rapid pulse and his cold clammy skin? c) What is the physiological basis of management? (15)
- 4. Write short notes on (Any five) (10)
  - a. Lung surfactant



- tanker's choice ndsteiner law.FirstRanker.com
- c. Deglutition apnoea (C1-215)
- d. QRS complex
- e. Plasma proteins
- f. Segmentation contraction
- 5. Explain briefly (Any three): (15)
  - a. Juxta glomerular apparatus
  - b. Regulation of hydrochloric acid (HCI) secretion
  - c. Heart sounds (A.544) (B.211) (C1-282,291)
  - d. Stagnant hypoxia

www.FirstRanker.com

- 1. Define cardiac output. Give its normal value. Explain the determinants of cardiac output. Mention the method of measuring cardiac output. Add a note on cardiac index. (20)
- 2. What will happen & why (Any Five) (10)
  - a. To pH urine at high altitude.
  - b. To gastric emptying time fatty diet. (A.274) (B.475)(C1-226)
  - c. To pulmonary blood flow distribution when alveolar PO decreases.
  - d. If person has platelet count less than 50.000/uL. (C1-95)
  - e. If plasma colloid osmotic pressure in systemic circulation is decreased. (C1-57)
  - f. Level of vitamin B and folic acid in blood in reduced.
- 3. Explain briefly (Any four) (20)
  - a. Mismatched transfusion.
  - b. Transport maximum for glucose (C1-529)
  - c. Proton pump inhibitors.
  - d. Fats of haemoglobin (C2-902)
  - e. Vitamin k.