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MBBS I (First) Professional Examination 2017-18

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. Discuss the following: (5x2=10)
   a) Short term regulation of blood pressure
   b) Digestion and absorption of fats

2. Describe in brief: (5x2=10)
   a) Excitation contraction coupling in skeletal muscle
   b) Erythroblastosis fetalis

3. Write in brief: (5x2=10)
   a) Surfactant
   b) Structure of nephron

4. Describe the process of erythropoiesis. Enumerate the factors affecting it. (10)

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Roll No. | | | | | | | | | | |

Student's Name |

Student's Signature |

Invigilator's Signature |

Course Code:MBS102 **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.

Q.1 Power house in the cell is:
a) Endoplasmic reticulum
b) Golgi apparatus
c) Nucleus
d) Mitochondria

Q.2 Glucose is transported across the intestinal mucosa by:
a) Simple diffusion
b) Facilitated diffusion
c) Active transport
d) Co- transport

Q.3 When compared to ECF, the ICF has:
a) High sodium concentration
b) Low potassium concentration
c) Equal chloride concentration
d) High protein concentration

Q.4. Pernicious anemia is an example of:
a) Hypochromic anemia
b) Nutritional anemia
c) Hemolytic anemia
d) Hemorragic anemia

Q.5 The first step during hemostasis is:
a) Platelet plug formation
b) Clot formation
c) Vasoconstriction
d) None of the above

Q.6 The form of hemoglobin that has CO_2 attached to it is called as:
a) Deoxyhemoglobin
b) Carboxyhemoglobin
c) Carbaminohemoglobin
d) Reduced hemoglobin

Q.7 Which of the blood vessel has maximum compliance:
a) Arteries
b) Veins
c) Arterioles
d) Capillaries

Q.8 Pulmonary artery carries deoxygenated blood from:
a) Right atrium
b) Left atrium
c) Right ventricle
d) Left ventricle

Q.9 If radius of blood vessel is decreased to half, blood flow will change to:
a) 1/2
b) 1/4
c) 1/8
d) 1/16

Q.10 To allow atrial contraction prior to ventricular contraction, cardiac impulse is held up at:
a) S.A. Node
b) A.V. Node
c) Bundle of His
d Purkinje fibers

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Q.11 Resistance vessels are:
a) Capillaries
b) Veins
c) Arterioles
d) Arteries

Q.12 Plateau in the action potential is seen in:
a) Nerve
b) Muscle fiber
c) S.A. Node
d) None of the above

Q.13 Inspired air is warmed, moistened and cleaned in all except:
a) Trachea
b) Larynx
c) Nose
d) Alveoli

Q.14 One of the following statements is TRUE for alveolar ventilation:
a) More than pulmonary ventilation
b) Same as pulmonary ventilation.
c) Less than pulmonary ventilation
d) Is a product of tidal volume and respiratory rate

Q.15 All of the following are TRUE for intra pleural pressure EXCEPT:
a) It is a negative pressure
b) Becomes more negative during inspiration
c) Becomes positive during inspiration
d) Prevents collapsing of lungs

Q.16 Pancreatic juice rich in bicarbonates is because of:
a) Cholecystokinin
b) Pancreozymin
c) Secretin
d) Gastrin

Q.17 In infants, defecation following a meal is caused by:
a) Gastroileal reflex
b) Gastro colic reflex
c) Enterogastric reflex
d) Peristalsis

Q.18 Majority of the water and salts reabsorption occurs in:
a) Proximal tubule
b) Distal tubule
c) Loop of Henle
d) Collecting tubule

Q.19 Major source of NH_3 in kidney is:
a) Glycine
b) Glutamate
c) Uric acid
d) None of the above

Q.20 Transport maximum for glucose is closest to:
a) 100 mg
b) 180 mg
c) 250 mg
d) 325 mg

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