

MBBS I (First) Professional Examination 2016-17

Paper ID: 0322205 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'

Explain the following: Baroreceptor mechanism (5x2=10)1.

Counter current mechanism

Write in brief: Oxygen dissociation curve (2.5x4=10) 2.

T lymphocyte b)

Saltatory conduction c) d) Normal E.C.G.

(5x2=10)

Discuss into following: Prevention of intravascular clotting

b) Mechanism of skeletal muscle contraction

Describe the following: Functions of liver 4. (5x2=10)

b) Hypoxia

3.

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Roll No.	Student's Name
	X
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 (\checkmark) 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 2 Which of the following plasma protein is not synthesized in liver:

a) Albumin

b) Fibrinogen

Prothrombin c)

Immunoglobulin d)

O.3 Erythroblastosis fetalis has the features of:

a) Anemia Jaundice

b) kernicterus

c)

d) All of the above

0.4. Which clotting factor has not been discovered so far;

> Factor III a)

Factor IV

Factor V

d) Factor VI

Normal P-R interval is: 0.5

0.1 second

b) 0.2 second

c) 0.16 second d) 0.24 second

Size of potential in the augmented leads is 0.6

increased by: a)

c)

25% 75% 50% None

d)

Cardiac muscle is except:

Striated muscle

b)

Involuntary in nature Supplied by somatic nerves c)

Supplied by autonomic nerves

Concentration of a gas in a solution is directly proportional to its partial pressure is known as:

Charle's law

b) Henry's law

Boyle's law c)

d) Avogadro's hypothesis

Q.17 Main buffers in tubular fluid is:

a) Bicarbonates

b) Proteins

Phosphates c) All of the above

Q.18 Normal heart with maximum sympathetic stimulation can increase cardiac output up

a) 10 L

b) 15 L

c) 20 L

d) 25 L

Q.19 P wave of ECG is caused by depolarization

of:

a) Atria

b) A-V septum

Ventricle c)

Purkinje fibres d)

www.FirstRanker.com 0.20 K+ pump is inhibited by: Na+-

Digitalis a)

b) Ouabin

Both a & b are correct

d) None of the above Q.10 Lungs act as a reservoir for blood and holds www.FirstRanker.com www.FirstRanker.com

2-5% of total blood volume

None of the above

b) 9-11% of total blood volume

c) 15-20% of total blood volume

Insignificant blood volume d

PTO

At higher altitude there is:

Decrease in pO2 a)

Q.11

Decrease in concentration of oxygen b)

c) Both a & b are correct

d) None of the above

Q.12 Net filtration pressure in glomerular capillaries is:

10 mmHg

b) 20 mmHg

c) 30 mmHg

d) 40 mmHg

Q.13 Fraction of glomerular filtrate reabsorbed

in proximal tubule is: 35% a)

65% b)

85% c)

d) None of the above

Q.14 Gastric acid secretion is inhibited:

Somatostatin a)

Enterogastric reflex I

d) All of the above

Q.15 Platue phase of action potential is found in:

S. A. node a)

b) Atrial muscle fiber

Ventricular muscle fiber Skeletal muscle fiber

d)

Q.16 Largest fluid compartment of body is:

Intracellular fluid

b) Extracellular fluid

Plasma c)

Blood