



JC-M20173 Seat No. _____
First Year M.B.B.S. Examination
July - 2019
Physiology : Paper-I

Time : 3 Hours]

[Total Marks : 50

- Instructions :** (1) Write answer to each section in separate answer book.
(2) Draw diagrams where necessary.

SECTION – A

- 1 Describe the transport of respiratory gases. Add a note on nitrogen narcosis. 8

OR

- 1 Describe the Static and Dynamic lung function tests with their clinical significance. 8

- 2 Write notes on : 8

- A) Hypoxia. **OR** Surfactant.
B) Mechanism of **OR** Movements of Stomach.
Pancreatic exocrine
secretion.

- 3 A) Name bile Pigments. Describe their biosynthesis and circulation. 5

- B) Write in short on : 4
- i) Valsalva manoeuvre aids defaecation.
 - ii) Deglutition causes apnoea.
 - iii) Atropine inhibits gastric secretion.
 - iv) Lungs are virtually dry in human.

SECTION – B

4 Describe the origin and spread of cardiac impulse. Describe its effects on heart. Give brief outline of its recordings in human. 8

OR

4 Describe the terms associated with blood pressure. Describe the principle of method of its measurement and role of kidney in regulation of blood pressure. 8

5 Write notes on : 8

A) "ABO" system **OR** Platelets

B) Glomerular filtration rate **OR** Non excretory functions of Kidney.

6 A) Enumerate blood indices. Describe their clinical importance. 5

B) Write in short on : 4

i) Dry hot weather is more bearable than humid hot weather.

ii) Urine out put increases in diabetes.

iii) Vasa recta acts as counter current exchanger.

iv) End Atrial systolic emptying determines force of contraction of ventricles.
