



**BR-4650**

Seat No. \_\_\_\_\_

**First Year M. B. B. S. Examination**

**April - 2021**

**Physiology : Paper-1**

Time : 3 Hours]

[Total Marks : 50

**SECTION - I**

1 Classify leucocytes and describe their role in immunity. 8

**OR**

Describe the stages of erythropoiesis and regulation of it.

2 Write note on any two : 8

(a) Gastric secretion OR Gastric motility

(b) Surfactant OR Hypoxia

3 (a) Discuss the physiology of micturition. 5

(b) Explain briefly : 4

(1) Lung compliance is increased in emphysema.

(2) Counter current mechanism helps in temperature regulation.

(3) In severe anaemia cyanosis is not developed.

(4) Defecation after meals is very common in children.

## SECTION - II

4 Discuss normal components of E.C.G. 8

**OR**

Define blood pressure. Describe the short term regulation of blood pressure.

5 Write note on any two : 8

- (a) Chemical regulation of respiration OR Dysbarism
- (b) Heart sound OR Regulation of coronary circulation.

6 (a) Discuss how human body adapts itself when exposed to cold environment. 5

(b) Explain briefly: 4

- (1) SA node is called as pace maker of human heart.
- (2) Blood does not clot in circulation.
- (3) Veins are called capacitance vessels.
- (4) Respiratory distress syndrome occurs in premature babies.