

Total number of printed pages-8

34 (1) PHYS 1.2

2018

PHYSIOLOGY

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Answer **any two** of the following :
10×2=20
 - (a) What are the three types of muscles present in the body? Give the main differentiating features between them. Write briefly about excitation contraction coupling.
3+3+4=10
 - (b) Write briefly about composition and function of saliva. What is deglutition?
4+4+2=10
 - (c) Name the hormones secreted by the pancreas. Write briefly about functions of insulin. What is diabetes mellitus?
4+3+3=10

Contd.

2. Answer **any ten** of the following :

5×10=50

- (a) Functions of blood.
- (b) Myopia and Hypermetropia with diagram
- (c) Taste buds
- (d) Hormones of posterior pituitary — name and functions.
- (e) Surfactant.
- (f) Types of White Blood Cell (WBC).
- (g) Micturition Reflex.
- (h) Different transport mechanisms across the cell membrane.
- (i) Write briefly about erythropoiesis.
- (j) Plasma proteins.
- (k) What is colour blindness? Classify.
- (l) What is bile? Write briefly about its secretion and functions.

- (o) Deficiency of RBC (Red Blood Cell) causes —
- (a) Anemia
 - (b) Leucopenia
 - (c) Thrombocytopenia
 - (d) Polycythemia.
- (p) Juxtaglomerular apparatus secretes —
- (a) Renin
 - (b) Erythropoietin
 - (c) Aldosterone
 - (d) Insulin.
- (q) The receptor for vision —
- (a) Rods
 - (b) Hair cells
 - (c) Macula
 - (d) Crista.
- (r) Pineal gland secretes the hormones —
- (a) Somatostatin
 - (b) Melatonin
 - (c) Calcitonin
 - (d) Inhibin.

(s) The largest WBC (White Blood Cell) is —

- (a) Neutrophil
- (b) Monocyte
- (c) Eosinophil
- (d) Basophil.

(t) Intrinsic factor is required for absorption of—

- (a) Vitamin C
- (b) Vitamin A
- (c) Vitamin B₁
- (d) Vitamin B₂.