

2022

PHYSIOLOGY

[Generic]

(B.Sc. Second Semester End Examination-2022)

PAPER-GE2T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

Group A

Answer any five questions from the following:

5x2= 10

1. What is Sarcomere?
2. What do you mean by EPSP?
3. What is corpus luteum? Write the name of the hormone secreted from it. 1+1
4. What do you mean by chronaxie and Rheobase?
5. Write two non-excretory functions of kidney.
6. Write the functions of Platelet.
7. What do you mean by functional residual capacity?
8. Differentiate between plasma and serum.

Cont../2

(2)

Group B

Answer any four questions from the following: 4x5 = 20

1. Discuss in brief about the control of pituitary secretion by hypothalamus. 5
2. Discuss the role of vitamins in erythropoiesis. 5
3. Describe in different types of hypoxia. 5
4. Discuss the mechanism of sweat secretion. Why sweat secretion is essential in human? 4+1
5. Discuss the role of baroreceptors in blood pressure regulation. What is glomus cell? 4+1
6. Discuss the microscopic structure of cardiac muscle with a suitable diagram. 3+2

Group C

Answer any one question of the following: 1x10 = 10

1. a) Discuss the different stages of menstrual cycle with ovarian and uterine changes. 3+3
b) What do you mean by hypophyseal portal vessel and hypophyseal tract? 3
c) What is Serum? 1
2. a) Discuss the mechanism of oxygen transport through blood to the tissues. 6
b) Write notes on – i) Oxygen dissociation curve
ii) Special functional tissues of heart. 4