

PHYSIOLOGY

Time: 3 Hours

Max Marks: 80

Note: Answer all questions

Draw diagrams whenever necessary with Black Ball point pen /HB pencil /any dark

Color pencil.

Write essay on any TWO of the following questions:

2 X 10 = 20

1. Describe the origin, course, termination and functions of Corticospinal tract with the help of a labelled diagram. (2+2+2+2)
2. Write the composition, functions and regulation of Salivary secretions. (3+4+3)
3. Define Homeostasis. Describe Negative and Positive feedback mechanisms with suitable examples. (2+4+4)

Write a short note on any FIVE of the following:

5 X 6 = 30

4. Describe the phases of Endometrial cycle.
5. Describe synthesis of Thyroid hormone.
6. Enumerate various static Lung volumes and capacities.
7. Digestion and absorption of carbohydrates in small intestine.
8. Describe functions of Growth hormone.
9. Define and explain (NMJ) Neuromuscular Junction.

Write briefly on the following:

10 X 3 = 30

10. Define Blood pressure. what is the value of normal blood pressure?
11. Draw Reflex arc and label it.
12. Classify White blood cells.
13. Draw a neat labelled diagram of Nerve fibre.
14. Define ECG (Electrocardiogram). Draw a neat labelled diagram of ECG.
15. Draw a neat labelled diagram of Nephron.
16. Tabulate three differences between Skeletal and Cardiac muscle.
17. Enterohepatic circulation of bile salts.
18. Define Fick's law of diffusion.
19. Cryptorchidism.