

Time: Three Hours

Max. Marks: 100 Marks

PHYSIOLOGY — PAPER - II (RS-4)

Q.P. CODE: 1023

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS

2 x 10 = 20 Marks

1. List adrenal gland hormones? Describe in detail about the actions of corticosteroids. Mention the clinical features of Addison's disease. (21-34-34-2=10)
24 61. 2-
2. Describe the circulation and functions of cerebrospinal fluid (CSF). Tabulate the composition of CSF against plasma. Discuss the clinical applications of CSF analysis. (2+2+3+3=10)

SHORT ESSAYS

10 x 5 = 50 Marks

3. Compare fast pain with slow pain.
4. Differentiate between pyramidal and extrapyramidal tracts.
5. Mention the functions of Basal Ganglia.
6. Illustrate the stages of follicular growth in an ovarian cycle.
7. Describe the structure and functions of the placenta.
8. Describe physiological effects of physical training.
9. Explain the disorders of visual field in relation to visual pathway.
10. A patient comes with a history of excessive drinking of water and passing of excess of colorless urine very frequently. Investigation revealed that the patient passed about 15 litre of urine in 24 hours. The urine was colorless, there was no sugar, blood or albumin in the urine.
 - a. What is your diagnosis?
 - b. What is the cause for the development of polyuria and polydipsia?
 - c. In what other conditions polyuria occurs?
 - d. How do you manage the condition?
11. Describe the actions of growth hormone.
12. Enumerate the sequence of event involved in the transmission of nerve impulse.

(1+1+2+1)

SHORT ANSWERS

10 x 3 = 30 Marks

13. Why a nerve fiber cannot be fatigued?
14. What are the contraindications for the use of oral contraceptives?
15. List the factors affecting nerve regeneration.
16. How length servomechanism operates to maintain muscle length?
17. Explain renshaw cell inhibition.
18. Why thalamus is called the sensory relay station?
19. List the beneficial effects of fever.
20. Mention the different types of glaucoma.
21. Mention the tuning fork tests used to assess deafness.
22. Distinguish between fast and slow muscle fibers.