

PHYSIOLOGY
PAPER – IV

Time : 3 hours

PHY/D/17/36/IV

Max. Marks : 100

Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

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|-----|---|-------|
| 1. | a) What is basic electrical rhythm?
b) Physiological basis of gastro-intestinal motility
c) Hirschsprung's disease | 1+6+3 |
| 2. | a) Name the phases of menstrual cycle.
b) Hormonal regulation of menstrual cycle
c) Indicators of ovulation | 1+5+4 |
| 3. | a) Phosphorus homeostatic mechanisms.
b) Role of estrogen replacement therapy in Osteoporosis
c) Disuse Osteoporosis. | 6+2+2 |
| 4. | Hypoaldosteronism: Types, causes and characteristic features | 2+2+6 |
| 5. | a) Define puberty.
b) Control of onset of puberty
c) Disorders of onset of puberty. | 2+4+4 |
| 6. | a) Define infertility.
b) Classification of female infertility.
c) Assisted Reproductive technology. | 2+3+5 |
| 7. | a) Functions of liver
b) Cause of coma in hepatic encephalopathy
c) Liver function tests | 4+2+4 |
| 8. | a) Radioactive Iodine in thyroid disorders.
b) Wolff-Chaikoff effect
c) Graves' disease | 4+3+3 |
| 9. | Compare and contrast:
a) Pre hepatic and Post hepatic jaundice.
b) True hermaphroditism and Pseudohermaphroditism | 5+5 |
| 10. | a) Feto-placental Unit
b) Role of foetus in maintenance of pregnancy | 5+5 |
