

23BP22

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Name :

Reg. No:

SECOND YEAR B.P.Ed. (INTEGRATED) DEGREE EXAMINATION, APRIL 2025

(Regular/Supplementary/Improvement)

CC15U BPE2 T7 / CC19U BPE2 T7 - PHYSIOLOGY AND PHYSIOLOGY OF EXERCISE

(2015 Admission onwards)

Time: Three Hours

Maximum: 75 Marks

Part – A

Answer any *three* questions.

1. Describe the effect of exercise on circulatory, respiratory and muscular systems.

(1 × 15 = 15 Marks)

2. Explain the following:

- a. Internal respiration
- b. Systemic Circulation
- c. Neuro Muscular Junction.

(3 × 5 = 15 Marks)

3. (A) Match the following:

- | | |
|--------------------------------|------------------------|
| a. Involuntary muscle | i. Building up process |
| b. Myology | ii. Fatigue |
| c. Thin filament | iii. Control breathing |
| d. Injuries involving ligament | iv. Breakdown process |
| e. Thick filament -- | v. Sprains |
| f. Glucagon | vi. Smooth muscle |
| g. Lactic acid accumulation | vii. Study of muscle |
| h. Anabolism | viii. Actin |
| i. Catabolism | ix. Myosin |
| j. Medulla oblongata | x. Pancreas |

(1 × 10 = 10 Marks)

- (B) Fill in the blanks:

- a. _____ energy is produced by 1 gram of fat.
- b. _____ is the property of muscle tissue that allows it to generate force during contraction.
- c. Endocrine glands are called _____
- d. Physical exercise done in the absence of oxygen is called _____
- e. The functional unit of the kidney is called _____

(1 × 5 = 5 Marks)

4. Explain:
- a. Functions of liver.
 - b. Types of Skeletal muscle fibres.
 - c. Pulmonary circulation.

(3 × 5 = 15 Marks)

5. Explain:
- a. Physiology of warming up.
 - b. Classification of Enzyme.
 - c. Carbohydrates Metabolism.

(3 × 5 = 15 Marks)

Part – B

Answer any *one* question.

6. a. Functions of Autonomous Nervous System.
- b. Briefly explain Physiological factors affecting speed, strength and endurance.

(2 × 7 ½ = 15 Marks)

7. Describe briefly:
- a. Functions of cerebellum.
 - b. External respiration.
 - c. Influence of temperature on metabolism.

(3 × 5 = 15 Marks)

Part – C

Answer any *five* questions.

- 8. Cardiac output.
- 9. Pancreas.
- 10. Synapse.
- 11. Oxygen debt.
- 12. Blood pressure.
- 13. Define physiology.
- 14. Muscle stitch.
- 15. Vital Capacity.

(5 × 3 = 15 Marks)
