

Roll No.

Total No. of Questions : 13]

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Paper ID [C1801]

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DOTT (101) (S05) (Sem. - 1st)
ANATOMY AND PHYSIOLOGY

Time : 03 Hours

Maximum Marks : 75

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Nine** questions from Section - B.

Section - A

(15 × 2 = 30)

Q1)

- a) What are functions of epithelial tissue.
- b) List the main factors affecting heart rate.
- c) What is difference between skeletal and smooth (visceral) muscle tissue.
- d) Describe briefly the composition and function of blood.
- e) Give the position and circulation of Branchiocephalic artery.
- f) List the arteries supply blood to all major body parts.
- g) Discuss the function of mucosa-associated lymphatic tissue (MALT).
- h) Give the structure of spleen (Only labelled diagram).
- i) Describe briefly the structure of urinary bladder.
- j) Describe the microscopic structure of thyroid gland (only labelled diagram).
- k) Discuss the common effects of abnormal secretion of thyroid hormones.
- l) Explain the process of ejaculation in Male reproduction system.
- m) Describe briefly the inner structure of ear (Draw only labelled diagram).
- n) State the functions of the motor (efferent) nerve tracts in the spinal cord.
- o) Explain how light entering the eye is focused on the retina.

Section - B

(9 × 5 = 45)

- Q2)** Describe the structure of various muscular tissues.
- Q3)** Describe the structure of tibia and fibula of lower limbs.
- Q4)** Trace the circulation of blood through the heart and blood vessels of body.
- Q5)** Describe the structure of the thymus gland.
- Q6)** Describe the functions of Liver.
- Q7)** Describe the gross structure of spinal cord.
- Q8)** Draw the longitudinal section of a testis and different duct.
- Q9)** Describe the location and gross anatomy of the lungs.
- Q10)** Describe the causes and effects of pneumonia and tuberculosis of lung.
- Q11)** Describe the structure and functions of cerebellum.
- Q12)** (a) List the functions of cerebrospinal fluid.
(b) Discuss the physiology of vision.
- Q13)** Explain the mechanism of urine formation.

