



(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 101406**

Roll No.

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## B. Tech.

(SEM. IV) THEORY EXAMINATION, 2014-15  
HUMAN ANATOMY & PHYSIOLOGY

Time : 3 Hours]

[Total Marks : 100

Note : Attempt all questions.

1 Attempt any two parts of following :  $2 \times 10 = 20$

- (a) Explain the menstrual cycle.
- (b) Explain the structure of skin with labelled diagram.  
Write about the functions of skin.
- (c) Discuss about pancreatic islets and its Hormones functions. Explain the diabetes mellitus and its complications.

2 Attempt any two parts of following :  $2 \times 10 = 20$

- (a) Draw the neat diagram of heart and label it.  
Explain the structure of heart. Discuss about the blood flow process in the heart.
- (b) Give details about salivary glands and its functions.
- (c) Briefly explain about disorders of pituitary glands.

- 3** Attempt any two parts of following : **2×10=20**
- (a) Define following terms :
    - (i) Megaloblastic anaemia
    - (ii) Hypertension
    - (iii) Gastritis
    - (iv) Osteoarthritis.
  - (b) Describe composition and functions of blood.
  - (c) Draw and label diagram of male Reproductive system and write functions of testosterone.
  - (d) Explain digestion of food in stomach and intestine.
- 4** Attempt any two parts of following : **2×10=20**
- (a) Describe synthesis, storage, transport and functions of thyroid hormones.
  - (b) Write a short note on cardiac cycle.
  - (c) Explain physiology of muscle construction.
- 5** Attempt any two parts of the following : **2×10=20**
- (a) Write a brief note on Drug Docking.
  - (b) Differentiate the terms of Digestion and Absorption.
  - (c) Draw and label diagram of Nephron. Discuss the physiology of urine formation.
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