



JJ-014-1042001

Seat No. _____

M. P. M. (Sem. II) (CBCS) Examination

August / September - 2019

BP - 201T : Human Anatomy & Physiology - II

Faculty Code : 014

Subject Code : 1042001

Time : 3 Hours]

[Total Marks : 75

- Instructions :** (1) Figure to the right indicates full marks.
(2) Draw neat and clean diagram wherever required.

1 Answer the following questions : **10×2=20**

- (a) Briefly explain functions of Hippocampus.
- (b) Comment : Regurgitation may play an important role in the development of Barrette's oesophagus.
- (c) Differentiate : External and Internal respiration.
- (d) What is the significance of estimating renal clearance ?
- (e) Which are the accessory organs of digestive system ?
- (f) Define : Azoospermia.
- (g) How BMR is calculated ?
- (h) What is the importance of Pharynx ?
- (i) Define : Absolute refractory period.
- (j) Explain the term 'Translation' with respect to protein synthesis.

2 Answer any **two** out of the following : **2×10=20**

- (a) Write a detailed note on generation and propagation of Nerve Action Potential with suitable diagram. Briefly discuss importance of myelin sheath.
- (b) Discuss the physiology of urine formation in detail.
- (c) Describe the mechanism of respiration and the regulation of respiration.

3 Answer any **seven** out of the following : **7×5=35**

- (a) Write a brief discussion on following disorders : Peptic ulcer and Diabetes.
 - (b) Draw a neat and clean diagram of a nephron.
 - (c) What is the composition of CSF ? Discuss its circulation and functions.
 - (d) Briefly discuss protein synthesis process.
 - (e) Discuss in detail about RAS system.
 - (f) Draw a neat and labelled diagram of digestive tract and explain about physiology of gastric acid secretion.
 - (g) Write a short note on oogenesis.
 - (h) Enumerate different cranial nerves with their names. Discuss the significance of trigeminal nerve.
 - (i) Enlist different endocrine and exocrine glands. Explain pancreas is a dual gland.
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