

2018

2nd Semester

NUTRITION

PAPER—C4T

(Honours)

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Group—A**

1. Answer any *five* of the following : 5×2
- (a) Write the name of the cellular organelles one for lipid bio-synthesis and other for ATP production.
- (b) Write the name of the disease that results low level of haemoglobin and lethargy.

*(Turn Over)*

- (c) What is dead space ?
- (d) Why does glucose ingestion through oral route provide immediate energy ?
- (e) Which is the part of the brain affected drastically by alcohol intake ?
- (f) Mention the phases of ventricular part of cardiac cycle with time.
- (g) Write the function of sebaceous gland.
- (h) Write the role of spleen on immunomodulation.

**Group—B**

Answer any *four* of the following : 4×5

2. Write the difference between autocrine and paracrine gland ? Explain the mechanism of protein hormone action in cellular level. Write the function of oxytocin.

2+2+1

3. Write the role of haemoglobin in our body. 5
4. Write the role of insulin on blood glucose level. 5
5. State the differences between upper and lower motor neurone paralysis? 5
6. Discuss in brief about the major events of fertilization.
7. Describe the digestion of protein in duodenum. 5

**Group—C**

Answer any *one* of the following : 1×10

8. (a) What do you mean by ultrafiltration?  
(b) Write the major process involved in urine formation. 3+7
9. (a) Describe the histological arrangement of gastrointestinal duct in general with suitable diagram.

- (b) Explain the role of liver during digestion.
- (c) What is chylomicron?
- (d) Why pancreas is called mixed gland?

5+2+1+2

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