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UG/2nd Sem/Physio/H/19

2019

B.Sc.

2nd Semester Examination

PHYSIOLOGY (Honours)

Paper - C4T

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.*

1. Answer any *five* questions : 5×2
 - (a) What is epimer ? Give example. 1+1
 - (b) What is saponification number ? 2
 - (c) What is amino sugar ? Cite an example. 1+1
 - (d) State the physiological of significance of essential fatty acids. 2
 - (e) What are heteroglycans ? Give examples. 1+1

[Turn Over]

- (f) Mention the names of essential amino acids. 2
- (g) Mention the functions of phospholipids. 2
- (h) What are nucleosides and nucleotides ? 1+1
2. Answer any *four* questions : 4×5
- (a) What are D- and L- stereoisomers ? What do you know about reducing action of sugar ? 3+2
- (b) Describe briefly the types of RNA with their structure and functions. 5
- (c) What is electrophoresis of protein ? State its importance. 3+2
- (d) Describes about the α -helix and β -pleated seat of protein structure. Define peptide bond. 2+2+1
- (e) What are sphingolipids and cerebrosides ? Write down their structure and functions in our body. 1+4
- (f) Describe different types of DNA with their structural features. 5

3. Answer any *one* question :

1×10

(a) Describe the functions of proteins in our body. Classify proteins with proper examples. What is isoelectric P^H ?

3+5+2

(b) What are glycerides ? Mention its types with examples. Describe any three important properties of fat. What is liposome ?

1½+3+4+1½
