



**WEST BENGAL STATE UNIVERSITY**  
B.Sc. Honours 2nd Semester Examination, 2020

**FNTACOR04T-FOOD AND NUTRITION (CC4)**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable.*

**GROUP-A**

1. Answer any **ten** questions from the following: 1×10 = 10
- (a) What is synapse?
  - (b) What is meninges?
  - (c) What is implantation?
  - (d) Name the ions involved in depolarization and repolarization of excitable cells.
  - (e) Name one excitatory and one inhibitory amino acid involved in synaptic transmission.
  - (f) What is visual acuity?
  - (g) Name anterior pituitary hormones.
  - (h) What is myelination?
  - (i) What are catecholamines?
  - (j) What is myasthenia gravis?
  - (k) What is ageusia?
  - (l) What is spermiogenesis?

**GROUP-B**

2. Answer any **four** questions from the following: 5×4 = 20
- (a) Name the major proteins present in skeletal muscle. Explain the role of calcium in skeletal muscle contraction. 1+4
  - (b) What is visual transduction? Explain the role of Vitamin A in the process. 2+3
  - (c) What do you mean by mineralocorticoids? Mention the function and source. 2+(2+1)
  - (d) What is placenta? Name any two placental hormones. Briefly mention the placental function with regard to fetal nutrition. 2+1+2
  - (e) Describe the source and functions of testosterone. 1+4
  - (f) What is corpus luteum? Discuss its function. 2+3

**GROUP-C**

3. Answer any *one* question from the following: 10×1 =10
- (a) Explain the endocrine regulation of calcium balance in human system. Describe the role of pancreatic hormones in blood sugar level maintenance. 5+5
- (b) Mention the location of hypothalamus and write a brief note on its structure. Describe its functions, with emphasis on endocrine aspects and role in regulating hunger and satiety. 1+2+  
(2+2+3)

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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