

U.G. 2nd Semester Examination - 2022**FOOD & NUTRITION****[HONOURS]****Course Code : FNT-H-CC-T-03**

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.***GROUP-A**1. Answer any **five** from the following questions:

2×5=10

- State the functions of Juxtaglomerular apparatus.
- Name the ear ossicles and state the functions.
- What is oogenesis?
- What is fovea centralis?
- What is synaptic cleft?
- What is meant by Organ of Corti?
- What do you mean by hypothermia?
- Why pancreas is called a mixed gland?

*[Turn over]***GROUP-B**2. Answer any **two** from the following questions:

5×2=10

- Briefly describe the process of synthesis of T_3 and T_4 . 5
- Describe the role of hypothalamus in regulation of body temperature in human. 5
- Describe in brief, about different stages of spermatogenesis. 5
- Describe the structure of a synapse with proper diagram. 5

GROUP-C3. Answer any **two** from the following questions:

10×2=20

- Describe the structure of olfactory epithelium with a suitable diagram. '
 - Describe the neural pathway of olfactory perception.
 - What is 'after taste'? 4+4+2=10
- Describe the hormonal changes taking place at different stages of menstrual cycle.
 - What is colostrum? Mention its nutritional importance for newborn. 7+3=10

- c) i) Discuss the physiological functions of glucocorticoids.
- ii) What is diabetes insipidus? $8+2=10$
- d) i) What do you mean by fertilization in human?
- ii) How milk secretion is regulated through neuro-endocrine axis?
- iii) Why does milk secretion remain suspended during pregnancy? $3+5+2=10$
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