

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPP-1105

M.Sc. (Previous) Examination, 2022

HOME SCIENCE

FOOD AND NUTRITION

Paper - II

(Applied Physiology)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

2 each

1. (i) What are the functions of Nucleus ?
- (ii) What is Cardiac cycle ?

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- (iii) Name the *three* salivary glands.
- (iv) What is pulmonary ventilation ?
- (v) What is the difference between bone and cartilages ?
- (vi) What is the composition of urine ?
- (vii) What is Synapsis ?
- (viii) Explain blood brain barrier.
- (ix) Define nutritional status.
- (x) Define Anthropometry.

Section-B

5 each

2. Discuss leucocytes and its functions.

Or

Explain briefly the terms Thermolysis, Pyrexia and Hypothermia.

3. Discuss briefly the role of liver and pancreas in the digestion process.

Or

Draw a labelled diagram of respiratory system and explain briefly the functions of lungs.

4. Discuss briefly the structure and functions of bone.

Or

Explain briefly the structure of thymus and spleen.

5. Draw a labelled diagram of brain and explain it briefly.

Or

Describe the physiology of vision.

6. Describe the dietary method of nutritional assessment and its advantages.

Or

What are the advantages and limitations of clinical methods of assessing nutritional status ?

Section-C

7. (a) Draw a labelled diagram of the heart.
(b) Explain the functions of blood. 5+5=10
8. Explain the following :
(a) Motility and regulation of gastro intestinal tract.
(b) Cardio-respiratory response to exercise and physiological effect of training. 5+5=10
9. Write notes on the following :
(a) Nutritional immunity and infection interactions
(b) Structure and function of nephron 5+5=10
10. How many types of endocrine glands are there ? Write their names and explain them briefly. 10
11. Describe anthropometric measurements used for screening of malnutrition in the population. 10