

Roll No. : .....

Total No. of Questions : 11 ]

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# **BPG-1117**

**M.Sc. (Previous) Examination, 2021**

## **HOME SCIENCE FOOD AND NUTRITION**

Paper - II

**(Applied Physiology)**

*Time : 1½ 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) Define Cell.
- (ii) What is Blood Pressure ?

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- (iii) What is the role of pancreas in digestion ?
- (iv) What are Buffer Systems ?
- (v) What is Acid-base Balance ?
- (vi) What are Antibodies ?
- (vii) What are Neurotransmitters ?
- (viii) Define Endocrine Glands.
- (ix) Define Nutritional Status.
- (x) What is Anthropometry ?

**Section–B**

5 each

2. What do you mean by inter-cellular communication ?

*Or*

Write a short note on anticoagulants.

3. Write a short note on 'cardio respiratory response to exercise'.

*Or*

What are the effects of dysfunction of liver ?

4. Discuss structure and functions of nephron.

*Or*

Write a short note on allergy and hypersensitivity.

5. Discuss structure and function of neuron.

*Or*

Write about role of skin in perception of Stimuli.

6. Write a short note on vital statistics.

*Or*

What are the advantages and limitations of assessment of nutritional status using clinical method ?

**Section-C**

10 each

7. What is cardiac cycle ? How is cardiac output regulated ?
8. Discuss in brief about aviation, high altitude and space physiology.
9. Write a brief note on types of muscles and their functions.
10. Discuss mechanism of action of hormones.
11. List techniques of assessment of nutritional status of individuals. Discuss any *two* in detail.