

B.Sc. 1st Semester (Honours) Examination, 2017 (CBCS)

Subject : Nutrition
(Nutritional Physiology-I)

Paper : CC-I

Time: 2 Hours

Full Marks: 40

*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:

2×5=10

- (a) Write two important functions of liver.
- (b) What do you mean by cardiac output?
- (c) What is acclimatization?
- (d) What are the different types of endocrine cells present in pancreas?
- (e) Define hypochlorhydria/achlorhydria.
- (f) What is pepsin and how does it act?
- (g) What do you mean by 'Bohr's' effect?
- (h) Mention any two differences between plasma and serum.

2. Answer any two questions:

5×2=10

- (a) What are the different factors involved in coagulation of blood? Why is calcium ion necessary for blood clotting? 4+1=5
- (b) Give a brief account on composition of saliva. 5
- (c) What is the normal level of blood pressure? Explain Renin-Angiotensin system in blood pressure regulation. 1+4=5
- (d) How is oxygen carried to the tissue from lung? What do you mean by oxygen dissociation curve? 4+1=5

3. Answer any two questions:

10×2=20

- (a) What is Rh factor? Describe ABO blood group system. Write the functions of different types of WBC in blood. 2+4+4=10
- (b) Describe briefly the structure and function of mitochondria and ribosomes. 5+5=10
- (c) Define 'Radial Pulse'. Why is SA node called the 'Pacemaker' of the heart? State in brief the special junctional tissues of heart. 2+2+6=10
- (d) Write in brief about the digestion of carbohydrate and fat in our G.I. tract. 5+5=10