

B.Sc. 4th Semester (Honours) Examination, 2019 (CBCS)

Subject : Nutrition

(Rural Technology and Public Welfare)

Paper : SEC-2

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) What do you mean by Biodiversity?
 - (b) Write down the name of two edible and two poisonous mushrooms.
 - (c) State the medicinal importance of Sarpagandha.
 - (d) Write the importances of Brahmi on human health.
 - (e) Write the composition of spawn.
 - (f) What is Royal Jelly? What is its role?
 - (g) What do you mean by PBR?
 - (h) Write two characters of rural society.

2. Answer *any two* of the following questions: 5×2=10
 - (a) Briefly illustrate the physical and chemical properties of honey. 2+3=5
 - (b) Write down a comprehensive note on health benefits of mushroom.
 - (c) Describe the major objectives of the project "Lab to Land Programme".
 - (d) Differentiate between National Park and Sanctuary with examples. What is a Biosphere Reserve. Cite an example. 3+2=5

3. Answer *any two* of the following questions: 10×2=20
 - (a) Define community. Describe the characteristics of the rural community. 2+8=10
 - (b) Write down a comprehensive note on KVK in terms of objectives, activities and strategies. 4+4+2=10
 - (c) What are the types of biodiversity? Mention the role of biodiversity in various aspects with a special reference of ecological, economical and medicinal importance. 4+6=10
 - (d) Briefly discuss the medicinal importance of the following:
 - (i) Amla
 - (ii) Ginger 5+5=10

B.Sc. 4th Semester (Honours) Examination, 2019 (CBCS)**Subject : Nutrition****(Immunology, Toxicology and Public Health)****Paper : SEC-2 (OR)****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* of the following questions: 2×5=10
 - (a) What do you mean by contaminant? Give an example.
 - (b) Write down the differences between BOD and COD.
 - (c) Illustrate your concept on 'forensic toxicology'.
 - (d) State the possible causes of higher level of drug toxicity in infants.
 - (e) Mention the differences between epitope and paratope.
 - (f) Write down the names of various cells related with immune system.
 - (g) Distinguish between active and passive immunity.
 - (h) What do you mean by cytokines?

2. Answer *any two* of the following questions: 5×2=10
 - (a) What is xenobiotics? Write a short note on 'lead poisoning'. 1+4=5
 - (b) Furnish a brief account on the management of arsenic poisoning.
 - (c) Briefly describe the different classes of organopesticides with example of each.
 - (d) Write down a comprehensive note on structure of immunoglobulin.

3. Answer *any two* of the following questions: 10×2=20
 - (a) What is immunoglobulin? What do you mean by monoclonal and polyclonal antibody? Highlight the advantages and disadvantages of monoclonal and polyclonal antibodies. 2+(1+1)+3+3=10
 - (b) What is biomagnification? State the different causes of biomagnification. Furnish a compact account of process of biomagnification. 2+4+4=10
 - (c) What is humoral immunity? Schematically represent the humoral immunity. Enlist the differences between humoral and cell mediated immunity. 2+4+4=10
 - (d) Elaborate your concept on following branches of toxicology:
 - (i) Food Toxicology
 - (ii) Drug Toxicology 5+5=10