

**B.Sc. 5th Semester (Honours) Examination, 2022 (CBCS)****Subject : Nutrition****Course : DSE-1 (OR)****(Therapeutic Nutrition And Critical Care)****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 of the following: 2×5=10
- Differentiate between infection and sepsis.
  - What are the different layers of human skin?
  - Write the limitations of 'Lund Browder Chart'.
  - Define therapeutic diet.
  - What do you mean by NPC : N?
  - Write the characteristics of post-surgery diet.
  - Write the role of imaging studies in the diagnosis of osteoarthritis.
  - Name some popular formulae used for fluid resuscitation in burn patients.
2. Answer *any two* questions of the following: 5×2=10
- Differentiate between diarrhoea and dysentery? What are the pathological consequences in chronic diarrhoea? 3+2=5
  - What is sepsis? Discuss about the different stages of sepsis. 1+4=5
  - Append a descriptive note on 'Jackson's Burn Wound Model'. What is erythema? 3+2=5
  - How cholera can be diagnosed? Discuss.
3. Answer *any two* questions of the following: 10×2=20
- What do you mean by wolf's bite disease? Write its signs and symptoms. 2+8=10
  - Elaborate your concept on path-physiology of superficial burn with a proper diagram.
  - What are the causes of fever? How typhoid can be managed? Explain. 4+6=10
  - Discuss about metabolic changes in trauma. Write the composition of ORS. 8+2=10

**B.Sc. 5th Semester (Honours) Examination, 2022 (CBCS)****Subject : Nutrition****Course : DSE-1****(Human Pathology)****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 of the following: 2×5=10
- State any four characteristics of red blood cell.
  - Write the full form of SGOT and SGPT.
  - Define GFR (Glomerular Filtration Rate).
  - Point out the difference between unconjugated and conjugated bilirubin.
  - Write the clinical significance of plasma lipase.
  - What are the causes of haemorrhage?
  - Differentiate between necrosis and apoptosis.
  - What is hyperplasia?
2. Answer *any two* questions of the following: 5×2=10
- Discuss about the steps of onset of cancer. What do you mean by tumor suppressor gene? 3+2=5
  - Give a brief idea on pathophysiology of 'Edema'.
  - State the causes and mechanism of cell injury. 2+3=5
  - Write the characteristics of benign and malignant neoplasm. 2½+2½=5
3. Answer *any two* questions of the following: 10×2=20
- What are ketone bodies? How they are produced in our body? 2+8=10
  - State the principle of ELISA. Elaborate your concept on direct and indirect ELISA. 2+8=10
  - State the clinical significance of the following enzymes: 2½×4=10
    - Creatine kinase
    - Lactate dehydrogenase
    - Glutamic-oxaloacetic transaminase and
    - Glutamic pyruvic transaminase
  - Describe the pathophysiologic causes of thrombosis. Mention various grading and staging of cancer. 5+5=10