

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022  
(Fourth Semester)

Branch – NUTRITION, FOOD SERVICE MANAGEMENT AND DIETETICS

MEDICAL NUTRITION THERAPY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- 1 Full Fluid diet is given at an interval of  
(i) 2-4 hours (ii) 3-4 hours (iii) 1-2 hours (iv) 2-3 hours
- 2 Find the amount of TPN Solution given per hour for adults  
(i) 100ml (ii) 250ml (iii) 200ml (iv) 75ml
- 3 What type of diet is recommended for weight management?  
(i) Low Protein and Low Glycemic Index  
(ii) High protein and High Glycemic Index  
(iii) Low Protein and High Glycemic Index  
(iv) High Protein and Low Glycemic Index
- 4 Identify the cellular origin of Sarcoma  
(i) Mesoderm (ii) White blood cells  
(iii) Endoderm (iv) Macrophages
- 5 Where Typhoid bacilli DON'T multiply?  
(i) Milk (ii) Water  
(iii) Vegetables (iv) Cooked Foods
- 6 Which cells deplete in HIV infection?  
(i) CD4 Cells (ii) Monocytes  
(iii) CD3 Cells (iv) CD3 and CD4 Cells
- 7 GFR can be measured by  
(i) Urea Clearance level (ii) Creatinine Clearance level  
(iii) Ammonia Clearance level (iv) Protein Clearance level
- 8 Which is the category I risk factor for cardio vascular diseases?  
(i) Diabetes mellitus (ii) Hypertension  
(iii) Postmenopausal status (iv) Obesity
- 9 Identify the amount of sodium chloride in ORS solution prescribed by WHO  
(i) 2.5g/lit (ii) 3.5g/lit (iii) 1.5g/lit (iv) 4.5g/lit
- 10 Haematemesis is a symptom of  
(i) Diarrhea (ii) Constipation  
(iii) Bleeding Ulcer (iv) Dumping syndrome

Cont...

**SECTION - B (35 Marks)**

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 7 = 35)

- 11 a Explain the different types of tube feed used.  
(OR)
- b Bring out the nutritional importance during of pre-operative and post- operative condition.
- 12 a Describe the role of glycemic index and glycemic load in the menu plan for diabetic patients.  
(OR)
- b State the pathogenesis leading to cancer formation.
- 13 a Outline the contributing factor, signs and symptoms, mode of treatment and dietary modification in tuberculosis.  
(OR)
- b Summarize the nutritional problems and nutritional requirements for HIV patients.
- 14 a Sketch the mechanism involved in the development of atheroma.  
(OR)
- b Explain the objectives and principles of planning a diet for hypertensive patients.
- 15 a Narrate the types, causes, symptoms and diet therapy for diarrhea.  
(OR)
- b State the relationship between alcohol and liver damage.

**SECTION - C (30 Marks)**

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Summarize the role of dietitian in a hospital and discuss the various types of hospital diets.
- 17 Enumerate the theories, types, etiology, role of hormones, diagnosis, treatment and diet therapy for obesity.
- 18 Discuss about the common food allergens and its type of reaction and suggest few treatment for food allergies.
- 19 Differentiate hemo and peritoneal dialysis and discuss on diet control in dialysis.
- 20 Elucidate the defense mechanism behind ulcer formation, its symptoms, causes, diagnostic methods and dietary intervention for peptic ulcer.

Z-Z-Z

END