

Enrollment No. \_\_\_\_\_



**NAVRACHANA UNIVERSITY**  
a UGC recognized University

**School:** School of Science  
**Program/s:** BMS  
**Year:** 3<sup>rd</sup> **Semester:** 5  
**Examination:** End Semester Examination  
**Examination year:** December - 2021

**Course Code:** BM307 **Course Name:** Clinical Nutrition  
**Date:** 07/12/2021  
**Time:** 11:30 am to 1:30 pm

**Total Marks:** 40  
**Total Pages:** 2

**Instructions:**

- Write each answer on a new page
- Draw neat and well-labelled diagrams wherever required
- \*COs=Course Outcome mapping. # BTL=Bloom's Taxonomy Level mapping

Q. No.	Details	Marks	COs	BTL#																		
Q.1	<p><b>A. Match the following with the correct options (4M)</b></p> <table border="1"> <tr> <td>1</td> <td>Intussusception</td> <td>A</td> <td>Advanced liver disease</td> </tr> <tr> <td>2</td> <td>Painful hemorrhoids</td> <td>B</td> <td>Alcohol, chemicals, drugs,</td> </tr> <tr> <td>3</td> <td>Decompensated cirrhosis</td> <td>C</td> <td>One part of the intestine is drawn into another part</td> </tr> <tr> <td rowspan="2">4</td> <td rowspan="2">Toxic hepatitis</td> <td>D</td> <td>Constipation</td> </tr> <tr> <td>E</td> <td>Lactulose</td> </tr> </table> <p><b>B. Fill in the blanks (5M)</b></p> <ol style="list-style-type: none"> <li>_____ is a disease where there is buildup of autoimmune proteins in the kidneys that leads to destruction of glomeruli.</li> <li>_____ refers to a shrunken, scarred and hardened liver which can cause a deterioration of liver function, resulting from chronic damage to the liver</li> <li>_____ refers to the loss of appetite or desire to eat</li> <li>_____ is a condition marked by weakness, weight loss, and fat and muscle loss, usually seen in cancer patients.</li> <li>In _____ a gastrin-secreting tumour of the islet cells cause overproduction of gastric acid</li> </ol> <p><b>C. State whether true or false with justification (5M)</b></p> <ol style="list-style-type: none"> <li>While treating a patient of malaria, the calorie requirement depends on the BMI of the patient</li> </ol>	1	Intussusception	A	Advanced liver disease	2	Painful hemorrhoids	B	Alcohol, chemicals, drugs,	3	Decompensated cirrhosis	C	One part of the intestine is drawn into another part	4	Toxic hepatitis	D	Constipation	E	Lactulose	14	CO 1,2, 3,4, 5	BTL1, BTL2, BTL3
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	<p>2. During recurring episodes of infection a lot of muscle wasting happens</p> <p>3. Food intolerance is an immune-mediated reaction</p> <p>4. Nutrient deficiencies and malnutrition are causes of pneumonia which cannot be treated</p> <p>5. High fibre food should be necessarily consumed as a part of nutritional therapy for typhoid.</p>			
<b>Q.2</b>	<p><b>Answer the following in one or two sentences (5 questions X 2 Marks=10 Marks)</b></p> <p>1. If a patient's parathyroid gland secretes abnormally high levels of parathyroid hormone, what will be its effect on peptic ulcers?</p> <p>2. What are FODMAPs?</p> <p>3. Sohan is a diabetic patient. He is also suffering from hypertension, hyperthyroidism and obesity. His doctor advised him to have complex carbohydrates? Why?</p> <p>4. How does Glomerulonephritis differ from Interstitial nephritis?</p> <p>5. Ravi is a patient suffering from nephrosclerosis? How will you identify if its benign or malignant?</p>	<b>10</b>	CO 1,2, 3,4, 5	BTL1, BTL2, BTL3
<b>Q.3</b>	<p><b>Answer the following in detail ANY FOUR (4 questions X 3 marks=12 Marks)</b></p> <p>1. Alex is a 16-year-old who loves video games and playing basketball with his friends. One day he started having difficulty breathing, began coughing and sweating, and felt his throat tighten and his lips swell. Alex has a history of birch allergy and used to have a stuffy nose and itchy red eyes during tree pollen season. Upon examination, he said he played basketball at his friends' house, and then they ate some shrimp salad and drank some soy milk. His healthcare professional suspected that he might have an undiagnosed allergy. His tests confirmed that he had a pollen-related soy allergy.</p> <p>1. What type of food allergy does he have?</p> <p>2. What precaution should be taken while planning an elimination diet for him?</p> <p>3. How does it differ from a food intolerance?</p> <p>2. Elena is a chain smoker and an alcoholic since past 10 yrs. She was admitted to the emergency ward due to complaint of severe stomach ache. Her stomach pain was worse on an empty stomach.</p> <p>1. How are the addictions of smoking and alcoholism related to her condition?</p> <p>2. Her blood reports show increased calcium levels. How is it associated with the disease?</p> <p>3. What should be the effect of the disease on phosphorous intake level?</p> <p>3. What would be the nutritional intervention for Acute and chronic kidney diseases?</p> <p>4. What are the foods to be consumed and avoided by a typhoid patient?</p> <p>5. Comment on the risk factors for liver cirrhosis</p>	<b>12</b>	CO 1,2, 3,4, 5	BTL1, BTL2, BTL3
<b>Q.4</b>	<p><b>For a patient suffering from kidney disease (4 Marks)</b></p> <p>a. Why is it important to stay hydrated?</p> <p>b. Why is it important to increase citrus intake?</p> <p>c. Why is it important to have a good intake of calcium?</p> <p>d. Why should the patient lower phosphorous?</p>	<b>4</b>	CO 3	BTL1, BTL2, BTL3