

**B.Sc. Nursing (Pt.-I)****B.Sc. Nursing Part-I (Remanded) Examination****August - 2017****NUTRITION AND BIOCHEMISTRY****(Section A & B)****Time: Three Hours****Maximum Marks: 80****Question No.4 of Section A and B both are compulsory****Attempt any TWO from rest of the questions in each section****(Use Separate Answer-Book for Each Section)****SECTION – A (Nutrition) Marks: 40****1) Briefly explain about the following:**

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|---|----|
| a) Daily requirements of water                  | 01 |
| b) Regulation of water metabolism               | 03 |
| c) Electrolyte imbalances                       | 04 |
| d) Maintenance of fluid and electrolyte balance | 04 |

**2) Write briefly (Any three) of the following:****3 x 4 = 12**

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|---|----------------|
| a) Classification of food and food standards                              | b) BMR and BMI |
| c) Classification of Vitamins   |                |
| d) Recommended daily allowances, dietary sources and functions of protein |                |

**3) Write short notes on:****2 x 6 = 12**

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|---|
| a) Explain about principles and methods of cooking. |
| b) Enumerate the balanced diet.                     |

**4) Write short notes on:****4 x 4 = 16**

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|---|---|
| a) Assessment of nutritional status                   |   |
| b) Digestion, absorption and storage of carbohydrates |   |
| c) Diet plan for anemia patient                       | d) Role of nurse in nutrition education |

**SECTION – B (Biochemistry) Marks: 40****1) Define enzymes and co-enzymes. Describe classification and properties of enzymes.****4 + 8 = 12****2) Write briefly (Any three) of the following:****3 x 4 = 12**

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|---------------|--|
| a) Urea cycle | b) Types, structure and composition of fatty acids |
| c) Buffers    | d) Regulation of blood glucose level               |

**3) Discuss briefly:****2 x 6 = 12**

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|--------------|---------------|
| a) TCA cycle | b) Microscopy |
|--------------|---------------|

**4) Write short notes on:****4 x 4 = 16**

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|--------------------|--|
| a) Chromatography  | b) Structure and types of immunoglobulins  |
| c) Atherosclerosis | d) Significance of biochemistry in nursing |