

B.Sc.(N) [Post Basic (1st Year)] 950
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Biochemistry & Biophysics

M.M. : 70

Time : 3 Hours.

Note: Attempt Three questions from each Section. Question No. 1 of each Section is Compulsory.

USE SEPARATE ANSWER SHEETS FOR EACH SECTION.

SECTION-A
(Biochemistry)

1. **Attempt any FIVE of the following:** [3x5=15]
 - a. Briefly explain Lipoproteins.
 - b. What are Ketone bodies? Describe their synthesis.
 - c. What is the difference between Serum and Plasma? Write in brief about anticoagulants.
 - d. Dialysis and its clinical applications.
 - e. Describe briefly: i) Body water.
ii) Electrolytes.
 - f. Write about the various factors affecting Enzyme activity.
 - g. Differentiate between elements, compounds and mixtures.

2.
 - a. Discuss about Digestion and absorption of fats. [5]
 - b. Describe Urea cycle. [5]

3.
 - a. How enzymes are important in clinical diagnosis? [5]
 - b. Discuss briefly chemical components of C.S.F. Justify clinical applications of biochemical C.S.F. analysis. [5]

4. **Write short notes on any TWO of the following:** [5+5=10]
 - a. Abnormal constituents of Urine.
 - b. Glycolysis.
 - c. Liver function tests.

SECTION-B 250(A)
(Biophysics)

1. **Explain briefly any FIVE of the following:** [3x5=15]
 - a. Use of flannel cover on an icecap or hot water bottle.
 - b. Underwater exercises are advised to patients for rehabilitation of muscles and joints.
 - c. Heat is applied to patient in shock.
 - d. Irradiation by ultraviolet rays in the case of neonatal jaundice.
 - e. Needle of wider bore is preferred for intravenous infusion.
 - f. Sterilization is done using autoclave.
 - g. Cadmium tungstate is used in fluoroscope for observing body structures.
 - h. All electrical equipment in the operation theatre are grounded.

2.
 - a. What is ionizing radiation and how does it damage living organisms? Give examples of different types of ionizing radiation. [6]
 - b. What measures are taken to reduce exposure to x-rays in hospital [4]

3.
 - a. What are the factors that influence pressure and rate of flow of fluids? What is blood pressure and how is it measured? [6]
 - b. Discuss the functioning of the heart as pump? [4]

4. **Write short notes on any TWO:** [2x5=10]
 - a. Use of film badges by radiographers.
 - b. Human body is a good conductor of electricity.
 - c. Balanced traction for treatment of fracture of femur.
 - d. Lens of the eye and accommodation.
 - e. Hearing loss in old age.

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Microbiology

M.M. : 70

Time : 3 Hours.

Note: Attempt FIVE questions only. Q.No.1 is compulsory.

1A. Give one word answer of the following:

1. Name the causative agent of Kala-azar.
2. Name a vaccine to prevent diphtheria.
3. Write the scientific name for 'Tape worm'
4. Leprosy is caused by _____.
5. Name a virus that causes Pneumonia.
6. Trachoma is caused by _____.
7. Name a dimorphic fungus.
8. Oral thrush is caused by _____.

[8x1=8]

1B. Pick up the most appropriate answer:

[3x1=3]

1. **Xylose Lysine Deoxycholate[XLD] medium is:**
 - a. Enrichment medium for *Vibrio cholerae*.
 - b. Selective medium for *Vibrio cholerae*.
 - c. Selective medium for *Salmonella* and *Shigella*.
 - d. Selective medium for diphtheria.
2. **Normal Serum Conc. of IgA is:**
 - a. 200 mg/dL.
 - b. 1000 mg/dL.
 - c. 120 mg/dL.
 - d. 3 mg/dL.
3. **IgE:**
 - a. is the antibody raised in allergies and parasitic infections.
 - b. is transferred through Placenta.
 - c. has antiviral activity.
 - d. has the highest half life in serum.

1C. Fill up the blanks:

[3x1=3]

1. Antibody secreted in mother's milk _____.
2. Causative agent of gas gangrene _____.
3. Causative agent of Gonorrhoea _____.

P.T.O.

2. Write short notes on any FOUR of the following: ^{25/1A} [4x3¹/₂=14]
- Guinea worm disease.
 - Lab diagnosis of Kala-azar.
 - Transport media.
 - Cholera.
 - Infections caused by E.Coli.
 - Flagella.
 - Difference in cell wall of gram positive and gram negative bacterium.
 - Shick test.
3. What is Gastroenteritis? Enumerate the different agents which cause gastroenteritis. Write about the laboratory diagnosis of gastroenteritis. [3+5+6=14]
4. Enumerate the different agents that can be transmitted sexually. Write about the laboratory diagnosis of Syphilis and Gonorrhoea. [4+5+5=14]
5. Enumerate the Viruses that can be transmitted through blood. Describe the agent, pathogenesis and laboratory diagnosis of virus causing Acquired Immunodeficiency Syndrome[AIDS]. [4+3+3+4=14]
6. Classify different Dermatophytic infections. Describe the agents and their lab diagnosis. [4+5+5=14]
7. Write briefly on: [7+7]
- Lab diagnosis of Enteric Fever.
 - Lab diagnosis of Urinary Tract infections.
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Medical Surgical Nursing

M.M. : 70

Time : 3 Hours.

Note: Attempt FOUR questions in total. Q.No. 5 is Compulsory.

1. a. Define Cholecystitis. What are the predisposing factors and symptoms of the disease. [5]
b. Write the pre operative and post operative nursing care of a 50 years old lady admitted in the hospital. [10]
2. a. What is Meningitis. Which microorganisms cause the infection. List down the specific sign and symptoms. [5]
b. Describe the nursing management of an unconscious patient. [10]
3. Explain various types of Fractures. What is the nursing care required for a patient in Plaster cast. [5+10=15]
4. a. Write the pathophysiology of Diabetes Mellitus among adults. What are its signs and symptoms. [10]
b. Explain the nursing management of patient on Insulin therapy. [5]
5. **Write short notes on any FIVE of the following:** [5x5=25]
 - a. Prevention of HIV/ AIDS.
 - b. Legal issues related to disaster.
 - c. Corneal donation and transplant.
 - d. Chicken pox.
 - e. Nursing process.
 - f. Chemotherapy.

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Community Health Nursing

A.M. : 70

Time : 3 Hours.

*Note: Attempt **FOUR** questions in all and **Q.No. 5** is **COMPULSORY**.*

1. Explain the principles you would keep in mind while rendering community health nursing services to a defined community. Give suitable examples. [15]
2. You are working as community health nurse in a rural area. Given below are the situations where community health nurse is expected to make decisions and take actions.
Answer any THREE situations of the following: [3x5=15]
 - a. A 3 years old child is suffering from Measles.
 - b. A 10 years old child is bitten by a dog.
 - c. An ante natal mother is having hemoglobin 8.5 gms.
 - d. An adolescent girl is having fever with chills.
3.
 - a. Define Epidemiology. List the aims of epidemiology. [6]
 - b. Describe how you will apply knowledge of epidemiology in handling an epidemic in a given community. [9]
4.
 - a. Describe impact of increasing population on health. [4]
 - b. List the objectives of family welfare programme. [4]
 - c. Discuss role of community health nurse in family welfare programme. [7]
5. **Write briefly on any THREE of the following:** [5x5=25]
Five
 - a. Objectives of school health programme.
 - b. Records and Reports.
 - c. Disposal of biomedical waste.
 - d. Management information system.
 - e. Monitoring health services.
 - f. Elements of Primary health care.

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Nursing Education

M.M. : 70

Time : 3 Hours.

Note: Attempt all questions.

1. a. List five different methods of teaching essential for nursing education. [3]
b. Discuss about 'Demonstration method' of teaching. [7]
2. a. Write about A.V. aids. [5]
b. Role of A.V. aids in teaching/learning process. Discuss. [10]
3. Discuss about 'Management of School of Nursing'. [10]
4. a. Define 'Evaluation'. [2]
b. **Write one example from each of the followings:** [12]
 - i) True and False statement question.
 - ii) Multiple Choice questions.
 - iii) Short answer type of question.
 - iv) Matching type question.
5. **Write short notes on any THREE:** [3x7=21]
 - a. Aims of education.
 - b. Counselling process.
 - c. Criteria for Selection of Learning experiences.
 - d. Formulation of Lesson Plan.
 - e. Teaching/Learning process.

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Mental Health Nursing

M.M. : 70

Time : 3 Hours.

Note: Attempt all questions.

1.
 - a. Define Communication. [2]
 - b. Write the steps of therapeutic communication. [8]
 - c. And discuss each steps. [5]

2.
 - a. Write the difference between Psychosis and Neurosis. [4]
 - b. Name 3 anti psychotic drugs and write the nursing responsibilities of these drugs. [8]

3. Define Conversion reaction. Write 3 main signs and symptoms of the patient. Write the steps of nursing care plan according to nursing process of Conversion disorder patient. [2+3+8=13]

4. **Write short notes on any THREE:** [3x5=15]
 - a. Temper tantrum.
 - b. Enuresis.
 - c. Hyperkinetic children.
 - d. Delinquency.

5. **Explain the concepts of the following [any TWO]:** [2x7¹/₂=15]
 - a. Individual psychotherapy.
 - b. Foster family.
 - c. Electro convulsive therapy.
 - d. Occupational therapy.

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**Introduction to Nursing Research
& Statistics**

M.M. : 70

Time : 3 Hours.

Note: Attempt all questions.

1. Explain characteristics of experimental research with examples. [5+10=15]
2. Describe the importance and steps of review of literature in research. [10]
3. Outline the steps to be followed in summarizing raw data. [10]
4. Briefly outline the areas of research in nursing. [10]
5. **Write short notes on any FIVE of the following:** [5x5=25]
 - a. Sampling techniques.
 - b. Interview method of data collection.
 - c. Validity of a research tool.
 - d. Selecting a problem for research.
 - e. Neonatal mortality rate.
 - f. Frequency distribution.
 - g. Steps in analysis of data.

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Sociology

M.M. : 70

Time : 3 Hours.

Note: Attempt any FIVE questions.

1. a. Define Sociology? [2]
b. What is the importance of Sociology in nursing? Explain with examples. [12]
2. a. What do you understand by the term Sociolization? [4]
b. What are the factors involved in the process of Sociolization. [10]
3. As a nurse "How can you prevent or help in decreasing the incidence of child labour and child abuse"? [14]
4. a. What is the difference between Caste and Class. [7]
b. "Social inequalities" are the result of Caste system? Explain. [7]
5. a. What is the significance of marriage for the Individual and Society. [7]
b. Describe the status of women in Indian families. [7]
6. **Write short notes on any TWO:** [2x7=14]
 - a. Dowry system in India.
 - b. Characteristics of Indian family.
 - c. Major Urban problems.

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Nursing Administration

M.M. : 70

Time : 3 Hours.

Note: Attempt all questions.

1.
 - a. Define nursing Organization. [3]
 - b. Differentiate between formal and informal organization. [6]
 - c. Discuss importance of administration in nursing. [6]

2. As a nursing Supervisor, what principles you will keep in mind while supervising the staff nurses in the Ward. Discuss various techniques that you will use for Supervision. [15]

3.
 - a. Describe various methods of Communication used in the hospital. [7]
 - b. Discuss barriers of communication and how that can be prevented. [8]

4. **Write short notes on any FIVE:** [5x5=25]
 1. Staffing norms.
 2. Disciplinary problems in nursing.
 3. Public relation.
 4. Inventory control.
 5. Principles of rotation plan.
 6. Nursing audit.