

Indicative Syllabus: For General Aptitude

a) Reasoning: It would include questions of both verbal and non-verbal type. This component may include questions on analogies, similarities and differences, spatial orientation, problem solving, analysis, judgement, decision making, discrimination, observation, relationship concepts, arithmetical reasoning and figural classification, arithmetic number series, non-verbal series, coding and decoding, statement conclusion, etc. the topics are, Symbolic/Number Analogy, Figural Analogy, Semantic Classification, Symbolic/Number Classification, Figural Classification, Semantic Series, Number Series, Figural Series, Problem Solving, Word Building, coding & decoding, Numerical Operations, symbolic Operations, Trends, Space Orientation, Space Visualization, Venn Diagrams, Drawing inferences, Punched hole/pattern-folding & unfolding, Figural Pattern – folding and completion, indexing, Address matching, Date & city matching, Classification of centre codes/roll numbers, Small & Capital letters/numbers coding, decoding and classification, Embedded Figures, Critical thing, Emotional Intelligence, Social Intelligence, Other sub-topics, if any.

b) General Knowledge: Questions in this component will be aimed at testing the candidate's general awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current events and of such matters of every day observations and experience in their scientific aspect as may be expected of any educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining History, Culture, Geography, Economic Scene, General Policy & Scientific Research.

c) Mathematics Aptitude: The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The scope of the test will be computation of whole numbers, decimals, fractions and relationships between numbers, Percentage, Ration & Proportion, Square roots, Averages, Interest, Profit and Loss, Discount, Partnership Business, Mixture and Allegation, Time and distance, Time & Work, Basic algebraic identities of School Algebra & Elementary surds, Graphs of Linear Equations, Triangle and its various kinds of centres, Congruence and similarity of triangles, Circle and its chords, tangents, angles subtended by chords of a circle common tangents to two or more circles, Triangle, Quadrilaterals, Regular Polygons, Circle, Right Prism, Right Circular Cone, Right Circular Cylinder, Sphere, Hemispheres, Rectangular Parallelepiped, Regular Right Pyramid with triangular or square base, Trigonometric ratios, Degree and Radian Measures, Standard Identities, Complementary angles, Heights and Distances, Histogram, Frequency, polygon, Bar diagram & Pie chart.

d) General English: Candidates' ability to understand correct English, his basic comprehension and writing ability, would be tested. Questions in this component will be designed to test the candidate's understanding and knowledge of English language and will be based on spot the error, fill in the blanks, synonyms, antonyms, spelling/detecting mis-spelt words, idioms & phrases, one word substitution, improvement of sentences, active/passive voice of verbs, conversion into direct/indirect narration, shuffling of sentence parts, shuffling of sentences in a passage, comprehension passage and any other English language questions at the level of Matriculation/Higher Secondary.

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BASIC SCIENCES

1. Anatomical and biochemical structures to explain the physiological functions of human body and factors, which may disturb these, and mechanism of such disturbances.
2. Various groups of micro-organisms of clinical importance.
3. Disinfection and sterilization for the prevention of diseases in the hospital and community.
4. Collect and handle specimens for various diagnostic tests.
5. Enumerate weights and measures and demonstrate skill in calculation of dosage and preparation of solutions.
6. Read and interpret prescriptions and care for drugs according to the regulations.
7. Describe various groups of drugs acting on different systems of the body.
8. Recognize the toxic symptoms related to common drugs and poisons.

2. NUTRITION AND DIETETICS

1. Various nutrients and their importance in the maintenance of health.
2. Plan diets suitable to socio-economic status for different age groups and physiological conditions.
3. Nutritional deficiencies and their prevention and management.
4. Plan therapeutic diets for various disease conditions.

3. PSYCHOLOGY MENTAL HEALTH AND PSYCHIATRIC NURSING

1. Normal and deviations in behaviour among various age groups and their cause.
2. Explain the principles of psychology and its application in health and diseases.
3. Interpret behaviour of self and others.
4. Recognize deviations from normal behaviour and provide guidance and counselling.
5. Dynamics of patient's behaviour and its application in providing nursing care.
6. Communication and maintain interpersonal relations.
7. Therapies utilized in psychiatry and the various roles of nurses in psychiatric nursing.

4. FUNDAMENTALS OF NURSING

1. Describe nursing as a profession, its scope, etiquettes & ethics.
2. First aid treatments.
3. Congenial and safe environment to the patient.
4. Carry out basic nursing procedures for the care of the patients with an understanding of the scientific principles involved.
5. Make observations and records.
6. Administer prescribed medications and carry out treatments.
7. Maintain records of patients and nursing care.

5. COMMUNITY HEALTH NURSING

1. Personal, environmental, social and cultural factors contributing to health of individual, family and community.
2. Methods of control of spread of diseases.
3. Needs for health education and evaluate the effect of the same to patients, families and community.
4. Prepare and use appropriate audio-visual aids for imparting health education.
5. Symptoms of social disorganization and social pathology.
6. Demonstrate skills in medico-social work.
7. Principles of health care to mothers and children and the services available for them in urban and rural communities.
8. Deviations from normal amongst mother and children and take necessary action in clinics, health centres and homes.
9. Educate the community about need and methods of family planning.
10. Demonstrate skill in community diagnosis and in delivery of community nursing services in accordance with the national health care system.

6. MEDICAL AND SURGICAL NURSING

1. Causes, pathophysiology, symptoms, treatment and prophylactic measures in common medical and surgical conditions affecting various systems of the body.
2. Provide patient centered nursing care to patients with common medical and surgical conditions affecting various systems of the body.
3. Prepare operation theatre for surgery and assist in operative procedures.
4. Identify common equipment used in operation theatre
5. Explain the anesthesia used, with their effects and dangers, and care for an anesthetized patient until such time as he recovers from the effect of anesthesia.
6. Recognize and provide first aid in case of common emergencies using the resuscitation equipment including intubation.
7. Care for critically ill patients who required support for maintaining vital functions.
8. (viii) Provide first aid in case of disaster, emergency and accidents and demonstrate skill in transporting the casualties.
9. (ix) Organize casualty/emergency services.
10. (x) Explain infectious diseases, their transmission and barrier nursing in hospital and community.

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7. PEDIATRIC NURSING

1. Describe growth and development, nutritional and psychological needs of children at different age group
2. Explain basic principles involved in pediatric nursing.
3. Provide nursing management to neonates and children with medical and surgical disorders.
4. Recognize emergencies in neonates and children and take appropriate first aid measures.
5. Manage normal newborn and low birth weight baby.
6. Describe various aspects of preventive pediatric nursing and be able to practice them while rendering nursing care in a hospital or community.

8. OBSTETRICAL NURSING

1. Anatomy and physiology of pregnancy, child-birth and puerperium.
2. Antenatal care to mothers.
3. Episiotomy and suture a first and second -degree tear.

4. Domiciliary services to mothers and children
5. Management of common obstetrical emergencies needing immediate treatment.
6. Family welfare advice.

9. PRINCIPLES OF ADMINISTRATION AND SUPERVISION, EDUCATION AND TRENDS IN NURSING

1. Principles of administration and its application to health administration at different levels.
2. Organizational pattern for nursing components of hospital and public health service.
3. Effective human relations to improve efficiency of the staff.
4. Principles of supervision and develop skill in supervisory techniques.
5. Trends in nursing and nursing education in India and abroad.
6. Nursing as a profession and the rights, responsibilities and adjustment in professional life.
7. Methods of teaching applicable to nursing

