



अखिलभारतीयआयुर्विज्ञानसंस्थान  
All India Institute of Medical Sciences  
मंगलगिरि, आंध्रप्रदेश  
Mangalagiri, Andhra Pradesh

[www.aiimsmangalagiri.edu.in](http://www.aiimsmangalagiri.edu.in)

AIIMS/MG/Admin/Recruit Matt/03/Non Faculty//2023/01A

Date: 23/10/2023

**CORRIGENDUM/ADDENDUM**

**NOTICE: CORRIGENDUM/ADDENDUM FOR SCHEME AND SYLLABUS OF EXAMINATION FOR RECRUITMENT OF VARIOUS GROUP 'B' & GROUP 'C' POSTS ON DIRECT RECRUITMENT BASIS IN AIIMS, MANGALAGIRI.**

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In reference to advertisement No. AIIMS/MG/Admin/Recruit Matt/03/Non Faculty/2023/01, Dated: 05.08.2023, for recruitment of following Group 'B' and Group 'C' post on direct recruitment basis in AIIMS Mangalagiri, the scheme & Syllabus of examination is as follows:

**I. SCHEME AND SYLLABUS OF EXAMINATION:**

**A. For Senior Nursing Officer (Gr-I), Assistant Administrative Officer, Medical Social Service Officer Grade-I, Assistant (NS) and Librarian Grade-III:**

Computer Based Test (CBT)				
Part	Particular	No. of Questions	Marks	Duration
Part - I	Subject knowledge of concerned post	60	60	90 Minutes
Part - II	General Aptitude	10	10	
	General Awareness & English	10	10	
	Basic Computer Knowledge	10	10	

**B. For PA to Principal:**

Computer Based Test (CBT)				
Part	Particular	No. of Questions	Marks	Duration
Part - I	Subject knowledge of concerned post	60	60	90 Minutes
Part - II	General Aptitude	10	10	
	General Awareness & English	10	10	
	Basic Computer Knowledge	10	10	
Part-III	Skill Test as per the RR of each post			

**C. For Personal Assistant and Upper Division Clerk**

Part	Particular	No. of Questions	Marks	Duration
Part - I	General Intelligence & Reasoning	30	30	90 Minutes
	General Awareness	30	30	
	Quantitative aptitude	10	10	
	Basic Computer Knowledge	10	10	
	English Comprehension	10	10	
Part - II	Skill Test as per the RR of each post			

**D. No change for the post of Lab Technician and Lab Attendant Grade-II**

➤ Syllabus for each post is attached at '**Annexure - I**'.

**Note:** The Examination Schedules and Computer Based Test (CBT) related information will be provided shortly.

- Candidates are advised to visit AIIMS Mangalagiri website regularly for any updates or important notices of this advertisement.

**INDICATIVE SYLLABUS OF CBT FOR RECRUITMENT TO VARIOUS NON-FACULTY POSTS (GROUP B & GROUP C) ON DIRECT RECRUITMENT BASIS AT AIIMS MANGALAGIRI**

Post Name	Syllabus
<b>Senior Nursing Officer Staff Nurse Grade-II)</b>	<p><b><u>Part-I: Subject Knowledge</u></b> (60 Marks)</p> <p>As per the syllabus of B.Sc. (Nursing) including emerging trend and technology in the field and some case based/practical questions.</p> <p><b><u>Part-II:</u></b></p> <p><b>A. <u>General Aptitude:</u></b> (10 Marks)</p> <p>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. Ratio &amp; Proportion, Square roots, Averages, Interest, Profit and Loss, Discount, Partnership Business, Mixture and Allegation, Time and distance, Time &amp; Work, Basic algebraic identities of School Algebra &amp; 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 ratio, Degree and Radian Measures, Standard Identities, Complementary angles, Heights and Distances, Histogram, Frequency polygon, Bar diagram &amp; Pie chart.</p> <p><b>B. i.) <u>General Awareness:</u></b> (10 Marks)</p> <p>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 neighboring countries especially pertaining History, Culture, Geography, Economic Scene, General Policy &amp; Scientific Research.</p> <p style="text-align: center;"><b>And</b></p> <p><b>ii.) <u>English Language:</u></b></p> <p>Spot the Error, Fill in the Blanks, Synonyms/Homonyms, Antonyms, Spellings/ Detecting Mis-spelt words, Idioms &amp; 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, Cloze Passage, Comprehension Passage.</p> <p><b>C. <u>Basic Computers Knowledge:</u></b> (10 Marks)</p> <ol style="list-style-type: none"> <li>a. General Computer Processing ability in MS-Office like Word Processing, Excel, PowerPoint etc. &amp; Operating Systems.</li> <li>b. Professional Software/Hardware System relevant to the Post.</li> <li>c. Any other Computer/IT related questions.</li> </ol>
<b>Assistant Administrative Officer (And) Assistant (NS)</b>	<p><b><u>Part-I: Subject Knowledge</u></b> (60 Marks)</p> <p><b><u>Central Govt. Service Rules:</u></b></p> <p>Central Government Rules: Questions relating to CCS (Leave) Rule, CCS (Conduct) Rules, GFR, FR/SR, General Service Condition, Office Procedures, Types of correspondence, General Knowledge about IPC/CRPC,</p>

Post Name	Syllabus
	<p>CPC/CAT/High Court, RTI Act, 2005, Establishment, Reservation, Roster, LTC, Travelling Allowance etc.</p> <p><b><u>Part-II:</u></b></p> <p><b>A. <u>General Aptitude:</u></b> (10 Marks)</p> <p>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. Ratio &amp; Proportion, Square roots, Averages, Interest, Profit and Loss, Discount, Partnership Business, Mixture and Allegation, Time and distance, Time &amp; Work, Basic algebraic identities of School Algebra &amp; 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 ratio, Degree and Radian Measures, Standard Identities, Complementary angles, Heights and Distances, Histogram, Frequency polygon, Bar diagram &amp; Pie chart.</p> <p><b>B. i.) <u>General Awareness:</u></b> (10 Marks)</p> <p>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 neighboring countries especially pertaining History, Culture, Geography, Economic Scene, General Policy &amp; Scientific Research.</p> <p style="text-align: center;"><b>And</b></p> <p><b>ii.) <u>English Language:</u></b></p> <p>Spot the Error, Fill in the Blanks, Synonyms/Homonyms, Antonyms, Spellings/ Detecting Mis-spelt words, Idioms &amp; 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, Cloze Passage, Comprehension Passage.</p> <p><b>C. <u>Basic Computers Knowledge:</u></b> (10 Marks)</p> <ol style="list-style-type: none"> <li>a. General Computer Processing ability in MS-Office like Word Processing, Excel, PowerPoint etc. &amp; Operating Systems.</li> <li>b. Professional Software/Hardware System relevant to the Post.</li> <li>c. Any other Computer/IT related questions.</li> </ol>
<p><b>Medical Social Service Officer Grade-I</b></p>	<p><b><u>Part-I: Subject Knowledge:</u></b> (60 Marks)</p> <p><b>A. Nature and development of social work</b></p> <p><b>B. <u>Sociological concepts and contemporary concerns:</u></b></p> <p>Sociological concepts and contemporary concerns urban community development Human rights and social work practice, social policy</p> <p><b>C. <u>Human behavior and social environment:</u></b></p> <p>Human behavior and social environment, state, political economy and governance, social work with communities, social work with individuals, social work with group research in social work: quantitative approaches</p> <p><b>D. <u>Social action and social movements:</u></b></p> <p>Social action and social movements, social work with the elderly, environment and social work, social work with families and children, occupational social work.</p> <p><b>E. <u>Research in social work:</u></b></p>

Post Name	Syllabus
	<p>Research in social work, qualitative approaches</p> <p><b>F. Administration of welfare and development services:</b> Administration of welfare and development services, organizational behavior and employee development, social defense and correctional services, rural community development</p> <p><b>G. Social justice and empowerment:</b> Social justice and empowerment, social development, management of development organizations Social work with persons with disabilities, aspects of applied social work in hospitals etc. Human rights and social work practice Social work practice in mental health settings</p> <p><b>H. Social work and disaster management:</b> Social work and disaster management, conflict mitigation and peace building, gender and development.</p> <p><b>I. Counseling:</b> Counseling theory and practice</p> <p><b>J. HIV/AIDS:</b> HIV/AIDS and social work practice, health care social work practice.</p> <p><b>Part II:</b> Same as AAO</p>
<p><b>Librarian Grade-III</b></p>	<p><b>Part I: Subject Knowledge: (60 Marks)</b></p> <p><b>(Library methods and techniques):</b></p> <p>Library Methods and Techniques Library and Society: Laws of Library Science; Types of Libraries; Library Associations, Systems and Programmers; Library Movement and Library Legislation in India; Organizations and Institutions involved in the development of Library and Information Services-UNESCO, IFLA, FID, INIS, NISSAT, etc. Library Management: Collection development - Types of Documents and Selection Principles, Acquisition Procedure, Acquisition of Journals and Periodicals, Preparation of Documents for use; Library Personnel and Library Committee, Library Rules and Regulations; Library Finance and Budget; Principles of Library Management, Library Organization and Structure; Use and Maintenance of the Library - Circulation, Maintenance, Shelving, Stock Verification, Binding and Preservation, Weeding out, etc.; Library Classification Theory and Practice: Canons and Principles, Library Classification Schemes- DDC, CC, UDC; Library Cataloguing Theory and Practice: Canons and Principles; Library Cataloguing Codes - CCC and AACR; Reference and Information Sources: Bibliography and Reference Sources Types of Bibliography; Reference Sources- Dictionaries, Encyclopaedias, Ready Reference Sources, etc.; Sources of Information - Primary, Secondary, Tertiary, Documentary, Non-Documentary; E-Documents, EBooks, E-Journals, etc.; Information Services: Concept and need for Information; Types of Documents; Nature and organization of Information Services, Abstracting and Indexing Services; Computer based Information Services - CAS, SDI; Information Technology: Basics Introduction to Computers; Use of computers in Library housekeeping, Library Automation; Software and software packages; Networks DELNET, NICNET, etc.; National and International Information Systems NISSAT, NASSDOC, INSDOC, DESIDOC, etc.</p> <p><b>Part II:</b> Same as AAO</p>

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<b>PA to Principal</b>	<p><b><u>Part-I: Subject Knowledge:</u></b> (60 Marks)</p> <p><b><u>Central Govt. Service Rules:</u></b> Central Government Rules: Questions relating to CCS (Leave) Rule, CCS (Conduct) Rules, GFR, FR/SR, General Service Condition, Office Procedures, Types of correspondence, General Knowledge about IPC/CRPC, CPC/CAT/High Court, RTI Act, 2005, Establishment, Reservation, Roster, LTC, Travelling Allowance etc.</p> <p><b><u>Part II:</u></b> Same as AAO</p> <p><b><u>Part III:</u></b></p> <p><b><u>Skill Test in Stenography:</u></b></p> <p>The Skill Test will be of qualifying nature. Candidate will have to qualify the test for English or Hindi at the prescribed speed on Computer as per the advertisement.</p>
<b>Personal Assistant (And) Upper Divisional Clerk</b>	<p><b><u>PART-I</u></b></p> <p><b>A. <u>General Intelligence &amp; Reasoning:</u></b> (30 Marks)</p> <p>It would include questions of both verbal and non-verbal type. This component may include questions on analogies, similarities and differences, space visualization, spatial orientation, problem solving, analysis, judgement, decision making, visual memory, discrimination, observation, relationship concepts, arithmetical reasoning and figural classification, arithmetic number series, non-verbal series, coding and decoding, statement conclusion, syllogistic reasoning etc. The topics are, Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Semantic Classification, Symbolic/Number Classification, Figural Classification, Semantic Series, Number Series, Figural Series, Problem Solving, Word Building, Coding &amp; decoding, Numerical Operations, symbolic Operations, Trends, Space Orientation, Space Visualization, Venn Diagrams, Drawing inferences, Punched hole/pattern –folding &amp; unfolding, Figural Pattern –folding and completion, Indexing, Address matching, Date &amp; city matching, Classification of centre codes/roll numbers, Small &amp; Capital letters/numbers coding, decoding and classification, Embedded Figures, Critical thinking, Emotional Intelligence, Social Intelligence, Other sub-topics, if any.</p> <p><b>B. <u>General Awareness:</u></b> (30 Marks)</p> <p>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 neighboring countries especially pertaining History, Culture, Geography, Economic Scene, General Policy &amp; Scientific Research.</p> <p><b>C. <u>Quantitative Aptitude:</u></b> (10 Marks)</p> <p>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. Ratio &amp; Proportion, Square roots, Averages, Interest, Profit and Loss, Discount, Partnership Business, Mixture and Allegation, Time and distance, Time &amp; Work, Basic algebraic identities of School Algebra &amp; 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</p>

Post Name	Syllabus
	<p>Cone, Right Circular Cylinder, Sphere, Hemispheres, Rectangular Parallelepiped, Regular Right Pyramid with triangular or square base, Trigonometric ratio, Degree and Radian Measures, Standard Identities, Complementary angles, Heights and Distances, Histogram, Frequency polygon, Bar diagram &amp; Pie chart</p> <p><b>E. <u>Basic Computers Knowledge:</u></b> (10 Marks)</p> <ol style="list-style-type: none"> <li>General Computer Processing ability in MS-Office like Word Processing, Excel, PowerPoint etc. &amp; Operating Systems.</li> <li>Professional Software/Hardware System relevant to the Post.</li> <li>Any other Computer/IT related questions.</li> </ol> <p><b>D. <u>English Comprehension:</u></b> (10 Marks)</p> <p>Spot the Error, Fill in the Blanks, Synonyms/Homonyms, Antonyms, Spellings/ Detecting Misspell words, Idioms &amp; 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, Cloze Passage, Comprehension Passage.</p> <p>The Questions in all parts will be of matric level:</p> <p><b><u>PART-II</u></b></p> <p>The Skill Test will be of qualifying nature. Candidate will have to qualify the test for English or Hindi at the prescribed speed on Computer as per the advertisement.</p>
<p><b>Lab Technician</b></p>	<p><b>A. <u>Subject Knowledge:</u></b> (70 Marks)</p> <p><b><u>Biochemistry</u></b> –</p> <ul style="list-style-type: none"> <li>Cleaning and care of general laboratory glass ware and equipment. Types of pipettes, calibration of pipettes.</li> <li>Distilled water. Method of preparation and storage of distilled water. Type of water distillation plants.</li> <li>Preparation of solutions – units of weights and volume, Calculation of concentration and methods of expressing concentration of solution.</li> <li>Units of Measurement - S.I unit and CGS units. Normality, Molarity, Molality</li> <li>Calibration of volumetric apparatus</li> <li>Principle, working and maintenance of Analytical balance</li> <li>Quality control and quality assurance in a clinical biochemistry Laboratory</li> <li>Laboratory organization, management and maintenance of records</li> <li>Principles of assay procedures, Normal range in blood, Serum, Plasma and Urine and reference values.</li> <li>pH – Definition, Henderson Hasselbach equation, Pka value, pH indicator, Methods of measurement of pH, pH paper, pH meter, Principle, working, maintenance and calibration of pH meter</li> <li>Volumetric analysis- Normal and molar solutions, Standard solutions, Preparation of reagents, Storage of chemicals</li> <li>Working principles Types and applications of Electrophoresis – Paper, Agarose Gel, Cellulose Acetate and PAGE.</li> <li>Working principles, types and applications of Chromatography - Paper Chromatography, TLC, Ion Exchange, Affinity Gel, Filtration, Gas Chromatography and HPLC.</li> <li>Working principles, types and application of centrifugation - Working Principles and application of photometry, and atomic absorption, Spectrophotometry and colorimetry.</li> <li>Definition, basic concepts of classification mechanism of action and properties of enzymes, factors influencing enzyme action</li> </ul>

Post Name	Syllabus
	<ul style="list-style-type: none"> <li>• Basic and elementary concepts of chemistry and properties of carbohydrates as applicable to the human body. (Classification, Digestion and Absorption, Metabolism, Disorders of metabolism)</li> <li>• Overview of metabolism of carbohydrates – Methods for determining glucose, ketones, lactate, pyruvate reducing sugars and mucopolysaccharides and their clinical significance. Biochemistry, types, criteria parameters in diagnosis and prognosis of Diabetes mellitus.</li> <li>• Basic and elementary concepts of chemistry and properties of lipids as applicable to the human body. (Classification, Digestion and Absorption, Metabolism, Disorders of metabolism)</li> <li>• Overview of lipid. Importance of lipids in the body in body basic metabolic aspects and analytical importance. Disorders of lipid metabolism. Lipoproteins patterns in disease analytical methods and procedures applicable to detecting and monitoring such disorders.</li> <li>• Basic and elementary concepts of chemistry and properties of proteins &amp; amino acids as applicable to the human body. (Classification, Digestion and Absorption, Metabolism, Disorders of metabolism)</li> <li>• Overview of metabolism of amino acids and proteins – current methodologies for their determination and identification in biological specimens – disease associated with alteration in or deficiencies of amino acids and proteins.</li> <li>• Basic and elementary concepts of chemistry and properties of nucleic Acids as applicable to the human body.</li> <li>• Basic concepts of principles of nutrition and nutrients macro and micro nutrients. Vitamins &amp; Minerals. Vitamins- Fat soluble vitamins , Water soluble vitamins sources, Biochemical role, RDA, deficiency manifestations Minerals – Calcium, Phosphorous, Iron, Copper, Zinc, Magnesium, Manganese, Iodine.</li> <li>• Analytical methods and recommendations for testing and assessing nutritional deficiency – Methods for assessing concentration of vitamins in biological samples.</li> <li>• General requirements for laboratory assessment of trace elements including specimen collection, handling, selection of analytical methodology and establishing quality.</li> <li>• Overview of Biochemical roles of major electrolytes and blood gases and their changes in pathological states– relationship between major electrolytes and acid base balance application of physical and chemical principles to biological system laboratory measurements of electrolytes and blood gases. Acid base balance disorders.</li> <li>• Overview of current concepts in endocrinology RIA, ELISA, chemiluminescence assay procedure for hormones physiological effects produced by normal and abnormal levels of various hormones. Thyroid function test and Adrenal function test.</li> <li>• Introduction to molecular Biology. Recombinant DNA technology, Role of recombinant DNA technology as diagnostic tool. Polymerase chain reaction.</li> <li>• Overview of porphyrins, their precursors, primary and secondary disorders of porphyrin metabolism</li> <li>• diagnostic laboratory methodologies including appropriate specimen collection and preservation techniques related to porphyrins</li> <li>• Laboratory tests and analytical methods used in identification and evaluation of hepatobiliary disorders, renal disorders and disorders of Stomach, pancreas and intestinal tract</li> <li>• Overview of calcium and inorganic phosphate metabolism current laboratory analytical</li> </ul> <p><b><u>Microbiology –</u></b></p> <ul style="list-style-type: none"> <li>• History of Medical Microbiology - Host-Microbe relationship.</li> <li>• Safety Measures in clinical microbiology</li> <li>• Cleaning, care and handling of glassware</li> <li>• Care and maintenance of Equipment in Microbiology.</li> </ul>

Post Name	Syllabus
	<ul style="list-style-type: none"> <li>• Microscopy: Principle, types and uses of microscope</li> <li>• Sterilization and Disinfection - Definition, Types, principles, mode of action and methods. Qualities of a good disinfectant. Assay for various disinfectants.</li> <li>• Biomedical waste management in a lab</li> <li>• General characteristics &amp; classification of Microbes : Classification of microbes. Morphological classification of bacteria, Bacterial anatomy (Bacterial cell structures)</li> <li>• Growth and nutrition of bacteria, Culture media and culture methods-aerobic and anaerobic</li> <li>• Quality control and safety in microbiology.</li> <li>• Handling and care of laboratory animals.</li> <li>• Antimicrobial agents, Antimicrobial susceptibility tests.</li> <li>• Stains used in bacteriology Principle, procedures, significance and interpretation - Simple staining, Gram stain, Ziehl –Neelsen staining, Albert’s stain, Capsule staining.</li> <li>• Principle, procedures and interpretation of the biochemical tests for identification of different bacteria.</li> <li>• Immunity – innate and acquired immunity, humoral and cell mediated.</li> <li>• Antigen antibody reactions and their applications</li> <li>• Complement</li> <li>• Hypersensitivity</li> <li>• Vaccines</li> <li>• Gram positive &amp; Gram negative cocci – Staphylococci, Streptococci, Enterococci, Pneumococci, Neisseria</li> <li>• Gram positive bacilli – Corynebacterium, Mycobacterium, Actinomyces, Listeria, Bacillus, Clostridia</li> <li>• Gram negative bacilli – Enterobacteriaceae, Pseudomonas, Vibrio, Aeromonas, Plesiomonas, Campylobacter, Bacteroides, Fusobacterium, Brucella, Haemophilus, Bordetella, Pasteurella, Francisella</li> <li>• Spirochaetes, Chlamydia, Rickettsia, Mycoplasma, L forms</li> <li>• General properties of viruses – Structure, classification and replication.</li> <li>• Laboratory diagnosis of virus</li> <li>• - DNA virus –Adenovirus, Papova virus, Herpes virus, Varicella zoster virus, Cytomegalo virus, Hepatitis B virus</li> <li>• RNA virus – Polio virus, Influenza virus, Para influenza virus, Mumps virus, Measles virus, Rubella virus, Respiratory syncytial virus, Rhinovirus, Rotavirus, Hepatitis virus, Arbo viruses prevalent in India (Dengue, West Nile, Japanese Encephalitis, KFD), HIV, Rabies virus, SARS virus.</li> <li>• Bacteriophage</li> <li>• Introduction to Parasitology –Common definitions, Types and Classification of parasites.</li> <li>• Collection transport and preservation of specimens for parasitological examination</li> <li>• Protozoa: Entamoeba Trichomonas, Trypanosomes, Leishmania, Giardia, Plasmodium, Isospora, Balantidium, and Toxoplasma.</li> <li>• Cestodes - Diphyllbothrium, Taenia, Echinococcus, Hymenolepis.</li> <li>• Trematodes - Schistosoma, Fasciola, Fasciolopsis, Clonorchis, Paragonimus - Intestinal Nematodes - Ascaris, Ancylostoma, Necator, Strongyloides, Trichinella Enterobius, Trichuris</li> <li>• Tissue Nematodes - Wucherei, Brugia, Loa loa, Onchocerca, Dracunculus</li> <li>• Collection and preservation of specimens for parasitological examination, preservation of specimens of parasitic eggs and embryos, Preserving Fluids, Transport of specimens.</li> <li>• Morphology and classification of fungus</li> <li>• Laboratory diagnosis of fungus- Culture media used in mycology, Direct microscopy in Medical mycology laboratory, Processing of clinical samples for diagnosis of fungal infections i.e. Skin, nail, hair, pus, sputum, CSF and other body fluids.</li> <li>• Superficial fungal infections</li> </ul>



Post Name	Syllabus
	<ul style="list-style-type: none"> <li>• Subcutaneous fungal infections</li> <li>• Deep fungal infections</li> <li>• Opportunistic fungal infections</li> <li>• Techniques used for isolation and identification of medically important fungi</li> <li>• Methods for identification of yeasts and moulds</li> <li>• Preservation of fungal cultures</li> </ul> <p><b><u>Pathology</u></b> –</p> <ul style="list-style-type: none"> <li>• General-Haematology: Origin, development, morphology, maturation, function and fate of blood cells, nomenclature of blood cells.</li> <li>• Various methods of blood collection, anticoagulants-mechanism and uses.</li> <li>• Basic concepts of automation in haematology</li> <li>• Counting chamber-hemocytometry. Enumeration of RBC including various counting chambers, diluting fluids for RBC count.</li> <li>• Haemoglobinometry. Principles and methods of quantitating Hb. Concentration of blood including knowledge of errors and quality control in various method. Abnormal hemoglobin and its investigation.</li> <li>• ESR: introduction, factors affecting ESR, principles and methods of determining ESR, increasing and decreasing conditions of ESR.</li> <li>• WBC: introduction, development of WBC, diluting fluids. Absolute eosinophil count, errors in sampling, mixing, diluting and counting.</li> <li>• Cell counting, advantages and disadvantages, uses and mechanism of cell counting, quality control in cell counts.</li> <li>• Preparation of peripheral smear and bone marrow smear. Thin smear, thick smear. Buffy coat smear, wet preparation. Romanowsky stain. Preparation advantages and disadvantages.</li> <li>• Principle and methods of staining of Blood smears and bone marrow smears. Supravital stain. Reticulocyte count. Heinz bodies.</li> <li>• Description of morphology of normal and abnormal red cells. Blood differential WBC counting. Recognition of abnormal cell. Anaemia – definition etiology classification and laboratory diagnosis.</li> <li>• Methods of identification and estimation of abnormal hemoglobin including spectroscopy. HB electrophoresis. Alkali denaturation Test. Sickle cell preparation.</li> <li>• Various benign leucocyte reaction – Leukocytosis. Neutrophilia, Eosinophilia, Lymphocytosis. Infectious mononucleosis. leucopenias.</li> <li>• Leukemias – definition, causes, classification, detection of leukemia. Total leucocyte count in leukemias. Multiple myeloma.</li> <li>• Blood Coagulation and disorders of hemostasis. Classification of coagulation factors, Principles and methods of assessment of coagulation. BT, CT, Prothrombin time, partial thromboplastin time, thromboplastin regeneration time</li> <li>• Thrombocytopenia, thrombocythemias, platelet function test, platelet count. Clot retraction test. Platelet factor III Test.</li> <li>• LE cell – definition, morphology causative agents. Various methods of demonstrating LE cells. Blood parasites. Malaria, LD bodies, microfilaria and methods of demonstration.</li> <li>• Preparation of donor and collection of blood. Solution and apparatus used. Storage of blood. Preparation and storage of plasma. Preparation of packed red cells.</li> <li>• Principles involved in Blood grouping. ABO system and the methods used. Factors influencing the results of blood grouping, Rh system. Rh antigen. Principles and methods used.</li> <li>• Cross matching. Compatibility test, direct and indirect Coomb's test – Principle involved and the methods used. Blood transfusion and its Hazards. - Definition, sources and types histological specimens, kinds of histological presentations</li> <li>• Labelling, fixation, properties of fixing fluids, classification and composition of fixing fluids. Advantages and disadvantages of secondary fixatives. Post chroming.</li> </ul>

Post Name	Syllabus
	<ul style="list-style-type: none"> <li>• Tissue processing, dehydration and cleaning.</li> <li>• Embedding. Water soluble substances, embedding in paraffin nitrocellulose - Equipment for sectioning microtome, knife, honing and stropping. Types, care and use of microtome.</li> <li>• Technique for sectioning – frozen section. Technique for sectioning – Paraffin embedded tissue. Errors in sectioning and remedies. Attaching blocks to carriers.</li> <li>• Technique of processing bone for histological studies. Mounting and covering. Mounting media.</li> <li>• Staining – theory, types of staining agent. Mordents and differentiation. H &amp; E staining. Types of hematoxylin and its preparation. Eosin stock stain and other counter stain used.</li> <li>• Demonstration of collagen, reticulin, elastin, fat, amyloid, glycogen, mucin, pigments and minerals (malarial, mercury, bile, lipofuscin, calcium, iron, copper).</li> <li>• Principles of histochemistry and its application</li> <li>• Demonstration of neuron, neuroglia, myelin and axon. Processing of eye ball for histology.</li> <li>• Demonstration of fat, iron, amyloid, bile in large sections of tissue.</li> <li>• Cytology – introduction, definition, types of cytological specimen, preparation of slide for microscopic studies, stains used.</li> <li>• Museum technique. Preparation, setting up of and arrangement of museum.</li> <li>• Preparation of cell blocks, mailing of slides.</li> <li>• FNAC, definition, techniques involved in preparation of smear and staining. PAP smear.</li> <li>• Calibration and Validation of Clinical Laboratory instruments.</li> </ul> <p><b>B. <u>Basic Computers Knowledge:</u></b> (15 Marks)</p> <ol style="list-style-type: none"> <li>a. General Computer Processing ability in MS-Office like Word Processing, Excel, PowerPoint etc. &amp; Operating Systems.</li> <li>b. Professional Software/Hardware System relevant to the Post.</li> <li>c. Any other Computer/IT related questions.</li> </ol> <p><b>C. <u>English Comprehension:</u></b> (15 Marks)</p> <p>Spot the Error, Fill in the Blanks, Synonyms/Homonyms, Antonyms, Spellings/ Detecting Misspell words, Idioms &amp; 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, Cloze Passage, Comprehension Passage.</p>
<p><b>Lab Attendant Grade-II</b></p>	<p><b>A. <u>Subject Knowledge:</u></b> (70 Marks)</p> <ol style="list-style-type: none"> <li>a. Biomedical Waste Management</li> <li>b. Infection Prevention and Control</li> <li>c. Basic Medical Terms</li> <li>d. Common Laboratory associated Hazards &amp; Bio-safety measures.</li> <li>e. Concept of Quality care in laboratory</li> <li>f. Quality Improvement Tools</li> <li>g. NABH Guidelines</li> <li>h. Basic Biochemistry including Normal values</li> <li>i. HIV, Hepatitis-B and Hepatitis-C, Pre and Post exposure guidelines.</li> <li>j. Medical Ethics</li> <li>k. Basic Anatomy and Physiology.</li> </ol> <p><b>B. <u>Basic Computers Knowledge:</u></b> (15 Marks)</p> <ol style="list-style-type: none"> <li>a. General Computer Processing ability in MS-Office like Word Processing, Excel, PowerPoint etc. &amp; Operating Systems.</li> <li>b. Professional Software/Hardware System relevant to the Post.</li> <li>c. Any other Computer/IT related questions.</li> </ol>

Post Name	Syllabus
	<p><b>C. <u>English Comprehension</u>:</b> (15 Marks)</p> <p>Spot the Error, Fill in the Blanks, Synonyms/Homonyms, Antonyms, Spellings/ Detecting Misspell words, Idioms &amp; 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, Cloze Passage, Comprehension Passage.</p>

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Sd/-  
**Director & CEO**  
**AIIMS, Mangalagiri**