

**GENERAL AWARENESS & APTITUDE TEST**  
**Compulsory for all Group B, C & MTS**

**PAPER- I**  
**MARKS – 100.**

	Mode of Examination	Scheme	No. of Questions	Marks
Paper I  General Awareness & Aptitude Test	<b>Written Test</b> i) MCQ for Scheme (a) to (f).	a) General Intelligence and Reasoning	30 (1x30=30)	30
		b) General Awareness		
	ii) Language Skills/ Basic Grammar can be of MCQ type or single word/idiom answer type (At least 2 questions from each category or not more than 3 questions from one type mentioned below)	c) Quantitative Aptitude	15 (1x15=15)	15
		d) Basic Computer Knowledge	05 (1x5=5)	05
		e) Language Skills/ Basic Grammar	25 (1x25=25)	25
		f) Comprehension	05 (1x5=5)	05
		g) Composition: Essay/Précis & Letter/ Application	02 (2x10= 20)	20
	iii) English Comprehension questions will also be developed in MCQ			
iv) <b>Descriptive</b> Essay/Précis & Letter/ Application as per the required norm of the type and marks allotted to each question (One from the former two and one from the latter two)				
<b>TOTAL</b>				<b>100</b>

\* From the given syllabus, questions have to be set for three different levels, viz,

(i) Graduate and above (ii) Class XII and (iii) Class X

Therefore, standards of the three levels have to be maintained in consistent with the educational qualifications prescribed for the post while developing the questions basing on the framed syllabus.



**General Intelligence & Reasoning \***

This component may include questions on analogies, similarities and differences, space visualization, spatial orientation, problem analysis, judgment, 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.

**General Awareness \***

Questions in this component will be aimed at testing the candidate's general awareness of the environment around and its application to society. It will also be designed to test the knowledge of current events and of such matters of every day observations and experiences 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 to History, Culture, Geography, Economics, General Policy & Politics and Scientific Research.

**Quantitative Aptitude \*\***

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 the computation of whole numbers, HCF & LCM, Decimals, Percentage, Ratio & Proportion, Averages, Interest, Profit and Loss, Time and distance, Time & Work, Heights and Distances, Bar diagram & Pie chart.

**Quantitative Ability \*\*\***

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 the computation of number systems, LCM, Decimals, Percentage, Averages, Profit and Loss, Time and distance, Heights and Distances.

**Language Skills/ Basic Grammar \***

Questions in this component will be aimed at testing the language proficiency, especially the basic grammar and vocabulary: Prepositions, Articles, Modals, Verbs & Subjects, Adverbs, Adjectives, Parts of Speech, Tenses, Antonyms & Synonyms, and Idioms.

**Comprehension: \***

A text comprehensible by candidates of a particular category and will be aimed at testing the ability to understand the content of the given text and to perceive, abstract, infer, syllogise/compare, etc the information and meanings from it. Questions will include both direct and indirect testing.

Précis also falls in this category of comprehension but for the sake of question type, this is clubbed with the category of 'composition.' This will be aimed at an exercise in comprehending the given passage and orderly presenting the crux of indispensably crucial points of the given passage. Therefore, it will also be aimed at testing the ability of reading, writing, self-expression, etc. basing on the given text and presenting it in a summarized form.

**Composition: \***

This component will be aimed at testing the writer's composition ability in a particular type, especially the unity, orderly, brevity, style and personal touch to the subject treated. The form of a particular type will also be tested.

**Note:**

- \* : For both Graduate level and below
- \*\* : Graduate Level
- \*\*\* : Below Graduate Level

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**PHARMACIST****PAPER – II**  
**MARKS – 100****Unit I: Pharmaceutics (20 marks)**

Prescriptions, Incompatibilities in Prescriptions- physical, chemical and therapeutics. Posology- Dose and Dosage of drugs, Introduction to Pharmacopoeias with special reference to the Indian Pharmacopoeia. Introduction of different dosage forms. Packing of Pharmaceuticals. Sterilizations-Concept and process. Aseptic techniques, Processing of Tablets, Processing of Capsules, immunological products like sera vaccines, toxoids & their preparations.

Parenteral dosage forms, Sterility testing, particulate matter monitoring, Ophthalmic product-characteristics of different ophthalmic preparation, Formulation additives, special precaution in handling and storage of ophthalmic products.

**Unit II: Pharmaceutical Chemistry (10 marks)**

The Chemistry of following Pharmaceutical organic compounds, covering their nomenclature, uses and their important physical and chemical properties, stability and storage conditions of the different types of Pharmaceutical formulations of drugs:

Antiseptics and Disinfectants, Sulfonamides, Anti-tubercular Drugs, Pyrazinamid Antiamoebic and Anthelmintic Drugs, Antibiotics, Anti malarial Drugs, Tranquilizers, Hypnotics, Antidepressant Drugs, Diuretic Drugs, Cardiovascular, Drugs, Hypoglycemic Agents, Histamine and Anti-histaminic Agents, Analgesics and Anti-pyretics; Steroidal Drugs, Anti-Neoplastic Drugs.

**Unit III: Biochemistry and Clinical Pathology (10 marks)**

Chemistry and role of Vitamins and Coenzymes. concept of normal and abnormal metabolism of proteins, carbohydrates and lipids. pathology of blood and urine: Lymphocytes and Platelets, their role in health and disease; Erythrocytes Abnormal cells and their significance; Abnormal constituents of urine and their significance in diseases.

**Unit IV: Human Anatomy and Physiology (10 marks)**

Cell, blood, lymph glands, heart, Arterial and venous system, Blood pressure and its recording, Cardiovascular disorders.

Respiratory system, Urinary system and kidney, Physiology of urine formation, Pathophysiology of renal diseases and oedema. Digestive system, liver, Reproductive system.

**Unit V: Health Education & Community Pharmacy (10 marks)**

Nutrition and health, Fundamental principles of microbiology, classification of microbes, isolation and staining techniques of organisms of common diseases. Communicable diseases: Respiratory infections, Intestinal infections, Arthropod borne infections; Surface infections; Sexually transmitted diseases; Non-communicable diseases; Epidemiology; Disinfection- types and procedures.



**Unit VI: Pharmacology & Toxicology (10 marks)**

Routes of administration of drugs, various processes of absorption of drugs and the factors affecting them, Metabolism, distribution and excretion of drugs.

Pharmacological classification, Pharmacological action and adverse effects of the following drugs: Drugs acting on the Central Nervous System, autonomic nervous system, respiratory system, Cardio Vascular drugs, Cardiotonics, Antiarrhythmic agents, Antianginal agents, Antihypertensive agents, Peripheral Vasodilators and drugs used in atherosclerosis, Drugs affecting renal function, Hormones and hormone antagonists.

Chemotherapy of microbial disease; Chemotherapy of protozoal diseases. Anthelminthic drugs; Chemotherapy of cancer; Disinfectants and antiseptics.

**Unit VII: Pharmaceutical Jurisprudence (10 marks)**

Pharmacy Act, 1948 - The general study of the pharmacy Act with special reference to education regulations, working of state and central councils, constitution of these councils and function, registration procedure under the act.

The Drugs and cosmetic Act 1940 - General study of the Drugs and cosmetic Act and the rules there under. Definitions and salient features related to retail and wholesale distribution of drugs. The powers of inspectors, the sampling procedures and the procedure and formalities in obtaining license under the rules. Facilities to be provided for running a Pharmacy effectively. General study of the schedule with special reference of schedule C, C<sub>1</sub>, F, G, J, H, P & X and salient features of labeling and storage condition of drugs.

**Unit VIII: Hospital & Clinical Pharmacy (10 marks)**

Nomenclature and uses of surgical instruments and Hospital Equipments and health accessories; P.T.C. (Pharmacy Therapeutic Committee), Hospital Formulary System and their organisation, functioning, composition; Surgical dressing like cotton, gauze, bandages, and adhesive tapes including their pharmacopoeial tests for quality. Other hospital supply, e.g. I.V. sets B.G. sets, Ryals tubes, Catheters, Syringes etc. Disease, manifestation and pathophysiology including salient symptoms to understand the disease like Tuberculosis, Hepatitis, Rheumatoid Arthritis, Cardiovascular diseases, Epilepsy, Diabetes, Peptic Ulcer, Hypertension; Drugs in Clinical Toxicity- Introduction, general treatment of poisoning, systematic antidotes. Treatment of insecticide poisoning, heavy metal poison, Narcotic drugs, Barbiturate, Organophosphorus poisons; Bio-availability of drugs, including factors affecting it; Drug Interactions; Adverse Drug Reactions.

**Unit IX : Pharmacognosy (10 marks)**

Occurrence, distribution, organoleptic evaluation, chemical constituents including tests wherever applicable and therapeutic efficacy of following categories of drugs.

Laxatives : Aloes, Rhubarb, Castor oil, Ispaghula, Senna, Cardiotonics-Digitalis and Arjuna; Carminatives & G.I. regulators- Umbelliferous fruits, Coriander, Fennel, Ajowan, Carda-mom, Ginger, Black pepper, Asafoetida, Nut- meg, Cinnamon, Clove; Astringents-Catechu; Drugs acting on nervous system-Hyoscyamus, Belladonna, Aconite, Ashwagandha, Ephedra, Opium, Cannabis and Nux vomica; Antihypertensives-Rauwolfia; Antitussives-Vasaka, Tolu balsam and Tulsi; Antirheumatics-Guggul, Colchicum; Antitumour-Vinca; Antileprotics-Chaulmoogra Oil; Antidiabetics-Pterocarpus, Gymnema and Sylvestro; Diuretics-Gokhru, Punarnava; Antidysentrics-Ipecacuanha; Antiseptics and disinfectants Benzoin, Myrrh. Neem, curcuma; Antimalarials-Cinchona; Oxytocics-Ergot; Vitamines-Shark liver Oil and Amla; Enzymes-Papaya, Diastase, Yeast.

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