

Syllabus for Pharma Assistant (संविदा फार्मा सहायक) RSSB

Part A- GENERAL KNOWLEDGE & GENERAL SCIENCE, CURRENT AFFAIRS, HINDI, ENGLISH, COMPUTER & HEALTH PROGRAM- 60 MCQs/180 Marks

1. GENERAL KNOWLEDGE & GENERAL SCIENCE AND CURRENT AFFAIRS	<ol style="list-style-type: none">History of India.Indian National Movement with important events in Rajasthan.India & Rajasthan-Geography, Physical, Social & Economic. India & Rajasthan-State & Governance, Constitution, Political System, Panchayati Raj System.Biodiversity in environmental conditions, climate change.Human (Economic & Social Development) & social problems.Current events - India, Rajasthan & World General Science-10th Standard	45 marks
2. GENERAL ENGLISH & HINDI	<ol style="list-style-type: none">TensesRearranging of jumbled sentencesNarration (Direct & Indirect)ModalsArticles & DeterminesComprehension with blanks to be filled in with<ol style="list-style-type: none">PhrasesPronounsHomonyms/HomophonesClausesSynonyms and antonymsPairs of words and their use in meaningful sentencesIdioms and phrasesUses of prepositionsActive and passive voice <p>सामान्य हिन्दी:-</p> <ol style="list-style-type: none">दिये गये शब्दों की संधि एवं शब्दों का संधिविच्छेद।-उपसर्ग एवं प्रत्ययसंरचना तथा शब्दों से उपसर्ग इनके संयोग से शब्द-एवंप्रत्यय को पृथक करना, इनकी पहचान।समस्त (सामासिक) पद की रचना करना, समस्त (सामासिक) पद का विग्रह करना।शब्द युग्मों का अर्थ भेद।पर्यायवाची शब्द और विलोम शब्द ।शब्द शुद्धि दिये गये अशुद्ध शब्दों को शुद्ध लिखना। -वाक्य शुद्धि वर्तनी संबंधी अशुद्धियों को छोड़कर वाक्य संबंधी अन्य व्याकरणिय अशुद्धियों का शुद्धीकरण।वाक्यांश के लिये एक उपयुक्त शब्द।पारिभाषिक शब्दावली प्रशासन से सम्बन्धित अंग्रेजी शब्दों के समकक्ष	45 marks

	हिन्दी शब्द। 10. मुहावरे एवं लोकोक्ति	
3. KNOWLEDGE OF COMPUTERS	1. Basic Applications of computer and its component. 2. Fundamentals of computer sciences. 3. Concept of open source technologies. 4. Input & Output Devices. 5. Operating system 6. Knowledge of MS Word, MS Excel, MS Access, MS PowerPoint, PDF Internet and E-mail. 7. Concept of computer virus and anti-virus. 8. Hardware & software, elements of computers processing system Hardware, CPU, peripherals, storage media, software definition, role and categories firmware and human-ware. 9. Role of information technology in governance & IT Acts & Regulations.	45 Marks
4. National Health Programs:	1. Knowledge of National Health Mission, its various programs like RCH, Communicable and Non-Communicable Disease Control Programs and their activities. 2. Ayushman Bharat and related health programs.	45 Marks
Total		180 Marks

Part B- Pharmacy (Professional Qualification):-270 Marks (90 MCQs)

Subjects	Topic
Pharmaceutics	1. Introduction of different dosage forms, 2. Metrology, 3. Packaging of pharmaceuticals, 4. Size separation, 5. Mixing and Homogenization, 6. Clarification and Filtration, 7. Extraction and Galenicals, 8. Distillation, 9. Introduction to drying process, 10. Sterilization & Aseptic techniques, 11. Processing of Tablets, 12. Processing of Capsules, 13. Study of immunological products. 14. Prescriptions, 15. Incompatibilities in prescriptions,

	16. Posology, 17. Dispensed Medications, 18. Powders, 19. Liquid oral Dosage forms: Monophasic, Biphasic Liquid Dosage Forms: Suspensions, Emulsions, 20. Semi-Solid Dosage Forms: Ointments, Pastes, Jellies, Suppositories and pessaries, 21. Dental and cosmetic preparations, 22. Sterile Dosage forms: Parenteral dosage forms, Sterility testing 23. Ophthalmic products.
Pharmaceutical Chemistry	1. Acids, bases and buffers, 2. Antioxidants, 3. Gastrointestinal agents, 4. Topical Agents, 5. Antimicrobials and Astringents, 6. Dental Products, 7. Respiratory stimulants, 8. Expectorants and Emetics, 9. Antidotes, 10. Major Intra and Extra cellular electrolytes, 11. Inorganic official compounds, 12. Radiopharmaceuticals and contrast media, 13. Quality control of Drugs and pharmaceuticals, 14. Identification tests for cations and anions. 15. Introduction to the nomenclature of organic chemical systems, The chemistry of pharmaceutical organic compounds <ol style="list-style-type: none"> Antiseptics and Disinfectants, Sulphonamides, Antileprotic Drugs, Anti tubercular Drugs, Antiamoebic and Anthelmintic Drugs, Antibiotic & Antifungal agent, Antimalarial Drugs, Tranquilizers & Hypnotics, General, Anaesthetics, Antidepressant Drugs, Adrenergic drugs, Adrenergic antagonist, Cholinergic Antagonists, Diuretic Drugs, Cardiovascular Drugs, Hypoglycemic Agents, Coagulants and Anticoagulants, Local Anesthetics, Analgesics and Antipyretic, Non-steroidal anti-inflammatory agents. Diagnostic Agents, Anticonvulsants, cardiac glycosides, Antiarrhythmic, Antihypertensive Vitamins, Steroidal Drugs, Antineoplastic Drugs.
Pharmacognosy	1. Definition, history and scope of Pharmacognosy, 2. Various system of classification of drugs and natural origin, 3. Adulteration and drug evaluation, 4. Brief outline of alkaloids, terpenoids, glycosides, volatile oils, tannins and resins,

	<ol style="list-style-type: none"> Occurrence, distribution, organoleptic evaluation, chemical constituents including test wherever applicable and therapeutic efficacy of various drugs, Pharmaceutical aids, Miscellaneous drugs.
Clinical Pathology and Biochemistry	<ol style="list-style-type: none"> Introduction to biochemistry, Carbohydrates, Lipids, Vitamins, Enzymes, Therapeutics, Introduction to Pathology of blood and urine. Lymphocytes and platelets, their role in health and disease, Erythrocytes. Anatomy of the Human and Physiology Scope of Anatomy and physiology, Elementary tissues, Skeletal System, Cardiovascular System, Respiratory system, Urinary System, Muscular System, Central Nervous System, Sensory Organs, Digestive System, Endocrine System, Reproductive system. Health Education & community pharmacy Concept of health, Nutrition and health, First aid, Environment and health, Fundamental principles of microbiology, Communicable diseases, Respiratory infections, Intestinal infection, Arthropod borne infections, Surface infection, Sexually transmitted diseases, Non-communicable diseases, Epidemiology.
Pharmacology & Toxicology	<ol style="list-style-type: none"> Introduction to pharmacology, Routes of administration of drugs, General mechanism of drugs action, Drugs acting on the central Nervous system, Drugs acting on respiratory system, Autacoids, Cardiovascular drugs, Drugs affecting renal function, Hormones and hormone antagonists, Drugs acting on digestive system, Chemotherapy of microbial diseases, Disinfectants and antiseptics
Pharmaceutical Jurisprudence	<ol style="list-style-type: none"> Origin and nature of pharmaceutical legislation in India, Principles and significance of professional Ethics, Pharmacy Act, 1948, The Drugs and Cosmetics Act, 1940, The Drugs and Magic Remedies (objectionable Advertisement) Act, 1954, Narcotic Drugs and psychotropic substances Act, 1985, Latest Drugs (price control) order in force. Poisons Act 1919 (as amended to date) Medicinal and Toilet preparations (excise Duties) Act, 1955(as amended to date). Medical Termination of Pregnancy Act, 1971(as amended to date).
Drug Store and Business Management	<p>Part-I: Commerce Introduction, Drug House Management, Sales, Recruitment, training, Banking and Finance.</p> <p>Part-II: Accountancy Introduction to the accounting concepts and conventions. Double entry, bookkeeping, different kinds of accounts, cash book, general ledger and trial balance, profit and loss account and balance sheet Simple techniques of analyzing, financial statements introduction to budgeting</p>

Hospital & clinical
Pharmacy

Part-I:

1. Hospital Pharmacy-Hospital and Hospital Pharmacy,
2. Drug Distribution system in Hospitals, Manufacturing,
3. Sterile manufacture, Non-sterile manufacture,
4. P.T.C. (Pharmacy Therapeutic Committee),
5. Hospital Formulary system,
6. Drug Information service,
7. Surgical dressing,
8. Application of computers.

Part II:

1. Clinical Pharmacy- Introduction to Clinical pharmacy practice
2. Modern dispensing aspects, Common daily terminology used in the practice of Medicine.
3. Disease, manifestation and patho-physiology,
4. Physiological parameters with their significance. Drug Interactions, Adverse Drug Reaction,
5. Drugs in Clinical Toxicity,
6. Drug dependencies,
7. Bioavailability of drugs.