

ANNEXURE (A)

SCHEME OF EXAMINATION / SYLLABUS FOR POST OF DRUG INSPECTOR.

(I) The examination will comprise of :-

(a) **Written examination:** The Candidates will take the examination in the following two papers each of one & half hours duration each carrying a maximum of 150 marks the questions in both the papers will be so designed as to give the following different subjects.

Paper – I (Code No.1): 150 marks

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|------|----------------------------|-----------|
| (i) | General English & Essay :- | 100 marks |
| (ii) | General Knowledge :- | 50 marks |

Paper – II (Code No.2): 150 marks

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|-------|---|----------|
| (i) | Pharmaceutical Jurisprudence (legal subject) :- | 30 marks |
| (ii) | Human Anatomy & Physiology :- | 20 marks |
| (iii) | Pharmaceutics :- | 20 marks |
| (iv) | Pharmaceutical Microbiology :- | 20 marks |
| (v) | Medical Chemistry :- | 20 marks |
| (vi) | Pharmacology :- | 20 marks |
| (vii) | Pharmacognosy & Phytochemistry :- | 20 marks |

(b) **VIVA –VOCE :- 40 marks**

- (II) The examination in both the papers will be completely of objective (Multiple Choice answer type). The question papers (Test Booklets) will be set in English only.
- (III) Candidates must write the papers in their own handwriting. In no circumstances will they be allowed the help of scribe to write answer for them.
- (IV) Candidates are not permitted to use calculators for answering objective type paper (Test Booklets) they should not, therefore, bring the same inside the examination Hall.
- (V) Selection will be made on the basis of combined maximum marks in written and Viva – Voce.
- (VI) Minimum pass marks shall be as per the provisions contained in the OM No.54/2006,dated 07.01.2006.

Signed by Songnyan Tante

Date: 10-12-2021 14:16:17

Reason: Approved
(Songnyan. Tante)

Under Secretary (Health & Fw)
Govt. of Arunachal Pradesh
Itanagar.

SYLLABUS FOR OPTIONAL PAPERS FOR THE POST OF DRUGS INSPECTOR

1. HUMAN ANATOMY AND PHYSIOLOGY

- **Introduction to human body**
Definition and scope of anatomy and physiology, level of structural organization and body systems, basic life process, homeostasis, basic anatomical analysis.
- **Cellular level of organization**
Structure and function of cell, transport across cell membrane, cell division, general principles of cell communication, Intracellular signaling pathway activation by extracellular signal molecule, Forms of intracellular signaling.
- **Tissue level of organization**
Classification of tissues, structure, location and functions of epithelial, muscular and nervous and connective tissues.
- **Integumentary system**
Structure and functions of skin
- **Skeletal muscles**
Divisions of skeletal system, Types of bone, salient features and functions of bones of axial and appendicular skeletal system, Organization of skeletal muscle, physiology of muscle contraction, neuromuscular junction.
- **Joints**
Structural and functional classification, types of joints movements and its articulation.
- **Body fluids and blood**
Body fluids, composition and functions of blood, hemopoiesis, formation of hemoglobin, anemia, mechanism of coagulation, blood grouping, RH factors, transfusion, Its significance and disorder of blood, Reticuloendothelial system.
- **Lymphatic system**
Lymphatic organs and tissues, lymphatic vessels, lymph circulation and functions of lymphatic system.
- **Peripheral Nervous system**
Classification of peripheral nervous system: Structure and functions of sympathetic and parasympathetic nervous system.
- **Special senses**
Structure and function of eye, ear, nose, and tongue and their disorders.
- **Cardiovascular system**
Heart: anatomy of heart, blood circulation, blood vessels, structures and functions of artery, veins and capillaries, elements of conduction system of heart and heart beats, its regulation by autonomic nervous system, cardiac output, cardiac cycle. Regulation of blood pressure, pulse, electrocardiogram and disorders of heart.
- **Nervous system**
Organization of nervous system, neuron, neuroglia, classification and properties of nerves fiber, electrophysiology, action potential, nerve impulse, receptors, synapse, neurotransmitters.
Central nervous system: Meninges, ventricles of brain and cerebrospinal fluid. Structure and function of brain (cerebrum, brainstem, cerebellum), spinal cord (gross structure, function and afferent and efferent nerves tracts, reflex activity).
- **Digestive system**
Anatomy of GI tract with special reference to anatomy and function of stomach (acid production in the stomach, regulation of acid production through parasympathetic nervous system, pepsin role in protein digestion) small intestine and large intestine, anatomy and functions of salivary glands, pancreas and liver, movements of GIT, digestion and absorption of nutrients and disorders of GIT.
- **Energetics**
Formation and role of ATP. Creatinine phosphate and BMR.