

SCHEME AND SYLLABUS OF EXAMINATION FOR THE PURPOSE OF FILLING UP OF THE POST OF SCIENTIFIC OFFICER UNDER SIKKIM STATE AYUSH SERVICE.

The examination will consist of 2 papers:-

PAPERS	SUBJECT	FULL MARKS	TIME ALLOWED
PAPER I	GENERAL ENGLISH & GENERAL KNOWLEDGE	100 MCQ AND CONVENTIONAL	02 : 00 HOURS
PAPER II	MAIN PAPER	300 MCQ AND CONVENTIONAL	03 : 00 HOURS
VIVA-VOCE/ PERSONALITY		50 MARKS	

Paper I & Paper II will be objective type MCQ/ OMR and conventional mode.

PAPER – I : GENERAL ENGLISH

The question will be designed to test the candidate’s understanding and command of the English language.

English : Candidate will be required to answer questions designed to test their understanding of English. The pattern of questions would be broadly as follows:-

1. Comprehensive of given passage
2. Precise writing
3. Usages and vocabulary
4. Essay writing
5. Report writing

GENERAL KNOWLEDGE:

- i. Current events of local, national and international importance.
- ii. National level Scheme & projects undertaken by government of India or State Government.

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1. Standardization and quality control of ASU&H drugs- introduction and backgrounds
2. Parameters included in Ayurvedic Pharmacopoeia of India part 1
3. Introduction of GLP and GMP
4. **Determination of different physic o-chemical parameter** like foreign matter, loss on drying, total ash content, acid insoluble ash, extractive value.
5. **Physical tests and determination of ASU&H drugs**
 - a. Powder fines
 - b. Disintegration test
 - c. Determination of Alcohol contains
 - d. Determination of pH
 - e. Refractive index
 - f. Determination of boiling Range
 - g. Determination of melting Range
6. **Testing of drugs**
 - a. Microscopic methods of examining crude drugs
 - b. Determination of stomata number
 - c. Determination of moisture contains
 - d. TLC
7. **Drugs and cosmetic act 1940 (Schedule M2)**
8. **Non-steroidal Anti-inflammatory Drugs-** Introduction, classification, therapeutic uses & adverse effects of Indomethacin and salicylic acid derivatives.
9. **Ayurvedic Preparations:** Study of ayurvedic preparations like arishtas, asavs, gutikastailas, churans, lehyas and bhasmas.
10. **Evaluation of Drugs:** WHO & ICH guidelines for the assessment of herbal drugs. Stability testing of herbal drugs. Regulatory requirements for herbal medicines. WHO guidelines on safety monitoring of herbal medicines in pharmacovigilance systems.
11. **Pharmacognosy in various systems of medicine :** Role of Pharmacognosy in allopathy and traditional systems of medicine namely, Ayurveda, Unani, Siddha, Homeopathy and Chinese systems of medicine
12. **Basics of Phytochemistry :** Modern methods of extraction
13. **Drug Receptor -** Classification, Structure and mechanism of Receptors.
14. **Spectroscopic Methods-** Principle, Instrumentation and applications of UV-VISIBLE and IR Spectroscopy.
15. **Nutraceuticals:** General aspects, Market, growth, scope and types of products available in the market. Health benefits and role of Nutraceuticals in ailments like diabetes, CVS diseases, cancer. Irritable bowel syndrome and various Gastro intestinal diseases

VIVA-VOCE :

The test is intended to judge the mental caliber of candidate. In broad terms this is an assessment of not only his intellectual qualities but also social traits and an interest in current affairs, mental alertness and critical powers of assimilation, care and logical exposition, balance of judgment, variety and depth of interest.

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