

SCHEME OF EXAMINATION

The competitive examination comprises of 3 successive stages.

1st Stage: Preliminary Examination (Objective Type) as a screening test (02 papers).

Preliminary examination is meant to serve as a screening test only. **The marks obtained in the preliminary examination by the candidate who is declared qualified for Physical Efficiency cum Physical Endurance Test and subsequently for the Main Examination will not be counted for determining his final order of merit.** Number of candidates who will be called after qualifying in screening test for Physical Efficiency cum Physical Endurance Test will be approximately 12 to 15 times of the number of vacancies to be filled in order of merit in each category wise. The successful candidates qualifying in Physical Efficiency cum Physical Endurance Test will only be allowed to sit in the main examination.

Syllabus of preliminary examination**Paper-I - General Studies (200 marks/ 2 hrs)**

1. Current Events of State, National and International Importance
2. History of Indian and Indian National Movement
3. Indian and World Geography – Physical , Social, Economic Geography of India and the World.
4. Indian Polity and Governance-Constitution, Political System, Panchayati Raj, Public Policy, Rights Issue etc.
5. Economic and Social Development- sustainable development, poverty, demographics etc.
6. General issues on Environment ecology, Bio-diversity and Climate change
7. General Science

Paper-II – Aptitude Test (200 marks / 2 hrs)

1. Comprehension
2. Interpersonal skills including communication skills
3. Logical reasoning and analytical ability
4. Decision making and problem solving

Note: The preliminary examination shall consist of two papers of 200 marks each of multiple choice/objective type. It is mandatory for the candidate to appear in both the papers of preliminary examination for the purpose of evaluation.

2nd Stage: Physical Endurance-cum-Physical Efficiency Test (PET) – 100 Marks.

1. Candidates appearing in the PET should qualify in each of the following five events. Failure to qualify in any one of the events would mean their disqualification for the post of Sub Fire Officer.
2. Sikkim Public Service Commission shall draw a merit list to call for appearing in the main examination from the candidates qualified in PET.

The standards of Physical Endurance-cum-Physical Efficiency Test prescribed for Sub Fire Officer are as follows:-

(a) 100 Meter Race :

Male Candidates	Female Candidates	Level	Marks allotted
Below 13.00 seconds	Below 16.50 seconds	A	20
13.00 to 14.50 seconds	16.50 to 18.00 seconds	B	16
14.51 to 16.00 seconds	18.01 to 19.50 seconds	C	12
Above 16.00 seconds	Above 19.50 seconds	D	Failed and disqualified


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The time taken from start to finish is noted by means of a stopwatch and recorded. Candidates will have only one chance at the event.

(b) 1500 Meter Race :

Male Candidates	Female Candidates	Level	Marks allotted
Below 5:50 minutes	Below 6:50 minutes	A	20
5:50 to 6:75 minutes	6:50 to 8:00 minutes	B	16
6.76 to 8:00 minutes	8.01 to 9:50 minutes	C	12
Above 8:00 minutes	Above 9:50 minutes	D	Failed and disqualified

The time taken from start to finish is noted by means of a stopwatch and recorded. Candidates will have only one chance at the event.

(c) High Jump (Maximum three chances at the qualifying level and one chance at each subsequent level)

Male Candidates	Female Candidates	Level	Marks allotted
Above 1.40 meters	Above 1.15 meters	A	20
1.25 to 1.40 meters	1.00 to 1.15 meters	B	16
1.10 to 1.25 meters	0.85 to 1.00 meters	C	12
Below 1.10 meters	Below 0.85 meters	D	Failed and disqualified

The cross bar is placed at the minimum height. Those who qualify in three or less attempts will be allowed one attempt at the next level. Those who qualify this level will be allowed one attempt at the last level. Candidates are placed in the level A, B or C as per their best jump and given marks accordingly.

(d) Long Jump (Maximum three chances)

Male Candidates	Female Candidates	Level	Marks allotted
Above 4.50 meters	Above 3.40 meters	A	20
4.05 to 4.50 meters	3.00 to 3.40 meters	B	16
3.60 to 4.05 meters	2.60 to 3.00 meters	C	12
Below 3.60 meters	Below 2.60 meters	D	Failed and disqualified


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Three lines are marked at the three distances indicated above from the front edge of the take off point. Each candidate will have three jumps and will be placed in level A, B or C as per his best jump and marks awarded accordingly. If while jumping a candidate touches the ground beyond the front edge of the take off point it will be treated as a foul. Whether fair or foul, only three jumps will be allowed.


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(e) Shot-Put (three chances)

Male Candidates	Female Candidates	Level	Marks allotted
Above 6.75 meters	Above 4.75 meters	A	20
5.75 to 6.75 meters	4.25 to 4.75 meters	B	16
4.75 to 5.75 meters	3.75 to 4.25 meters	C	12
Below 4.75 meters	Below 3.75 meters	D	Failed and disqualified

A circle 7 ft in diameter will be drawn. Two lines 30° and 60° will be drawn to form the sector in which the shot is to be thrown. Three arcs will then be drawn in this sector at distances stated above from the front edge of the circle. Each candidate will have three chances with 16 lb weight for men and 12 lb weight for women and his/her best performance level A, B or C will be recorded and marks awarded accordingly. If while throwing, a candidate touches the ground in front of circle it will be treated as a foul. Whether fair or foul only three chances will be allowed.

3rd Stage: MAIN (WRITTEN) EXAMINATION: 500 MARKS

- (1) The written examination shall include three compulsory subjects (English, General Knowledge and one paper of the 04 subjects listed below). Syllabus for the main examination subjects is given in Annexure – III.

Compulsory Subjects

- (i) **ENGLISH (in conventional type / MCQ)** includes Essay writing, Letter writing, Comprehension of given passage, Grammar etc.)-**100 Marks**
- (ii) **General Knowledge (Multiple Choice Questions)** pertaining to the World, India & Sikkim, including current affairs & reasoning. – **100 Marks.**
- (iii) **Main Paper (Objective and Subjective Type)** comprises of Mathematics, Biology, Physics and Chemistry of Class – X & XII level – **300 marks**


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Syllabus for Main (written) examination for Recruitment of Sub Fire Officer (Objective and Subjective type questions)-300 marks**I. MATHEMATICS – CLASS X STANDARD**

1. Real Numbers
2. Polynomials
3. Arithmetic Progressions
4. Triangles
5. Circles and Constructions
6. Areas Related to Circles
7. Surface Areas and Volumes
8. Statistics

II. BIOLOGY – CLASS XII STANDARD

1. Reproduction
2. Genetics and Evolution
3. Biology and Human Welfare
4. Biotechnology
5. Ecology

III. PHYSICS – CLASS XII STANDARD

1. Electric Charges and Fields
2. Current Electricity
3. Moving Charges and Magnetism
4. Magnetism and Matter
5. Electromagnetic Waves
6. Ray Optics and Optical Instruments
7. Dual Nature of Radiation and Matter
8. Atoms
9. Communication Systems.

IV. CHEMISTRY – CLASS XII STANDARD

1. The Solid State
2. Solutions
3. Electrochemistry
4. The p-Block Elements
5. The d- and f-Block Elements
6. Haloalkanes and Haloarenes
7. Alcohols, Phenols and Ethers
8. Aldehydes, Ketones and Carboxylic Acids
9. Amines
10. Biomolecules
11. Polymers
12. Chemistry in Everyday Life

Total marks of Stage II & III - 600 Marks


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