

**Syllabus for Conducting of Written Test for  
Subject Matter Specialist (Agro-meteorology) and  
Technical Officer (Agro-meteorology) positions on contractual basis**

<b>Examination Type</b>	<b>Name of the Subject</b>	<b>No. of Questions</b>	<b>Marks Out of 80</b>
Written test (objective type)	Agro-meteorology	80	One mark to each question

- Meaning and scope of agricultural meteorology.
- Composition and structure of atmosphere and definition of weather and climate, aspects involved in weather and climate, atmospheric humidity, evaporation and transpiration, monsoons, rainfall, clouds, droughts, weather disasters and their management atmospheric pollution and role of meteorology.
- Wind, types of wind, daily and seasonal variation of wind speed, cyclone, anticyclone, land breeze and sea breeze.
- Energy balance of earth.
- Monsoon mechanism and importance in Indian agriculture.
- Weather hazards – drought, floods, frost, tropical, cyclones and extreme weather condition such as heat- wave and cold-wave.
- Agriculture and weather relations, modification of crop microclimate, climatic normals for crop and livestock production, Crop weather charts, calendar and diagrams,
- Weather forecasting – types of weather forecast and their uses.
- Instruments for measurements of meteorological elements, weather forecasts for agriculture at short, medium and long range levels; agro met advisories, preparation, dissemination and economic impact analysis, use of satellite imageries in weather forecasting; synoptic charts and synoptic approach to weather forecasting
- Concept definition, types of drought and their causes; prediction of drought; crop water stress index crop stress detection; air pollution and its influence and vegetation. Automatic weather stations- data logger and sensor nano-sensor for measurements of weather variables; computations and interpretation of data.
- Climate change, green house effect. CO<sub>2</sub> increase, global warming and their impact on region and national agriculture; concept and types of drought; climatic classification, agro climatic zones and agro-climate zones and agro- ecological regions of India.



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**Syllabus for Conducting of Written Test for Agromet Observer position on Contractual basis**

Question paper shall contain Total 100 questions and the candidates have to attend all the questions. All questions carry equal marks

Examination Type	Name of the Subject	Total Marks 100
<b>Written test (objective type)</b>	<b>English Language</b>	<b>20</b>
	<b>General Intelligence / Reasoning</b>	<b>20</b>
	<b>Quantitative Aptitude (Basic Arithmetic skill)</b>	<b>20</b>
	<b>General Knowledge</b>	<b>20</b>
	<b>Knowledge of Computers</b>	<b>20</b>

**English Language :** Phrases, Use of correct verbs, Choosing appropriate words, Antonyms & Synonymous, Fill in the blanks etc.

**General Intelligence/Reasoning:** It would include questions of both verbal and non-verbal type. The test will include questions on analogies, blood relations, order and ranking, syllogism, inequality, data sufficiency, input – output, coding – decoding, puzzles, alphanumeric series, direction based questions, logical reasoning. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationship, numerical aptitude, arithmetical computation and other analytical functions.

**Quantitative Aptitude (Basic Arithmetic Skill):** Addition, Subtraction, Multiplication, Division, Percentage, Ratio, Average etc.

**General Knowledge:** Questions will be designed to test the ability of the candidate's general awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observation and experience in their scientific aspects as may be expected of an educated person. The test will also include questions relating to Indian politics, Indian Parliament, Indian history, Indian culture, Indian Economy, botany, famous books & authors, geography, zoology, chemistry, environment, physics, famous days & dates, sports, inventions in the world etc.

**Knowledge of computers:** History of computer, Computer and its components. CPU, VDC, Key board, mouse and other devices. Computer memory, important abbreviation, input-output devices, internet, hardware and software concepts. Data and information concepts. Computer shortcuts, Operating system essentials. Window operating system and Microsoft office, Use of Internet / Social Websites and Inpage Urdu Software etc.



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