**Sher-e-Kashmir**
**University of Agricultural Sciences & Technology of Kashmir (SKUAST-K)**
***OFFICE OF THE CONTROLLER OF EXAMINATIONS***
**Main Campus, Shalimar, Srinagar – 190025**
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# NOTICE

It is notified for the information of all the candidates/aspirants who have applied for the post(s) of Farm Manager & Program Assistant (Computer) against the University advertisement notice no. 05 of 2023 dated. 31-03-2023, that the OMR based written examination will tentatively be held on the dates mentioned against each below:

| S. No. | Post | Tentative Date of OMR Based Written Examination |
|---|---|---|
| 01 | Farm Manager | 18th February, 2024 (Sunday) |
| 02 | Program Assistant (Computer) | 25th February, 2024 (Sunday) |

The syllabus/revised syllabus for the above posts has been notified earlier and is once again enclosed as Annexure-"**A**" & Annexure-"**B**" for the posts of Farm Manager & Program Assistant (Computers) respectively.

This is an advance notice for the information of candidates. The final dates of examination, along-with the schedule for downloading of Admit Cards shall be notified separately in due course of time.

**Prof. (Dr.) K. N. Qaisar**
Controller of Examinations

No. AU/CoE/R-5/(FM/PA-LT/PA-C)2024/2176-2178
Dated: 16.01.2024

**Copy for information to the:**

- Registrar, SKUAST-K, Shalimar.
- Officer In-Charge ARIS with the request that the notice along with the syllabus be uploaded on the University Website.
- Secretary to Vice-Chancellor for information of Hon'ble Vice-Chancellor.

**Annexure-"A"** **Syllabus for the post of Farm Manager**

The details of the Written Test to be conducted will be as under.

1) The question paper will contain 100 questions having total 100 Marks

2) The question paper of 100 marks will consist of sets of questions of following subjects.

| | | | |
|---|---|---|---|
| I) | **English** | **25 questions** | **25 Marks** |
| II) | **Aptitude Test** | **25 questions** | **25 Marks** |
| III) | **Agriculture and Allied Sciences** | **50 questions** | **50 Marks** |

3) The Medium of Examination will be English

4) Syllabus for written test for the post of Farm Manager. The standard for the written test will be equivalent with graduate level. The medium of examination will be English.

**1. English : (25 Marks)**

The subject will include Spelling, English Grammar, English Transformation, Sentences and use of words, Vocabulary of graduate level.

**2. Aptitude Test : (25 Marks)**

The questions of general intelligence and reasoning in order to judge ability and promptness of the candidate in giving correct answers

**3. Agriculture and Allied Sciences: (50 Marks)**

**Agronomy**: Botanical classification, cropping system, essential nutrients, plant competition, deficiency and excess symptoms and control measures, water management, nutrient management, conservation tillage, irrigation scheduling, critical stages, irrigation methods, seed rate, seed testing methods, planting distance, diseases and insect management, harvesting, yield components.

**Soil Science**: Definitions, type of soil, classification, physical, chemical and biological properties, soil fertility management, acidic, alkaline, saline and sodic soils, soil reclamation practices. Role of biofertilizers in fertility management.

**Genetics and plant breeding**: Definitions, cell structure and its components, chromosome, law of heredity, mendelian genetics, qualitative and quantitative traits, pollination and fertilization, apomixis, parthenocarpy, polyembryony, breeding methods and achievements in agricultural crops.

**Plant protection**: Insect taxonomy, classification of insects, pest surveillance, diseases of cereals, legumes, oil seeds and horticultural crops, etiology of diseases, disease forecasting systems and integrated disease and pest management. Pesticides, Maximum Residue Levels.

**Horticultural crops**: Classification of horticultural crops, training and pruning, training systems, temperate, subtropical and tropical fruits, diseases of horticultural crops and their management, commercial vegetables, seed rate, planting and their management, flower and ornamental crops, value addition of flower crops, garden types, formal and informal gardens, use of plant growth regulators in horticulture production, postharvest physiology of horticultural crops.

**Agriculture Mechanization:** Machines used in farm operations, AI in Agriculture Mechanization, Water conservation, Precision Agriculture, Protected cultivation, Pesticide applications. Government scheme for Agriculture Mechanization.

**Farm Economics, Marketing, inputs and Resource use efficiency:** Farm Business Management, economic principles applied to farm management, Farm Planning, records and accounts, input and output marketing, resource use efficiency in agriculture.

**Post Harvest management:** Maturity and Ripening-Maturity indices of fruit and vegetables, changes during ripening, Post harvest handling and packaging of horticulture crops, controlled atmospheric storage of temperate fruits. Quality evaluation of fruits and vegetables.

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**Annexure-"B"** **Syllabus for the post of Program Assistant (Computer)**

The details of the Written Test to be conducted will be as under.

1) The question paper will contain 100 questions having total 100 Marks

2) The question paper of 100 marks will consist of sets of questions of following subjects.

| | | | |
|---|---|---|---|
| I) | **English** | **25 questions** | **25 Marks** |
| II) | **Aptitude Test** | **25 questions** | **25 Marks** |
| III) | **Computer Application, Computer Science and aboutknowledge of Computer** | **50 questions** | **50 Marks** |

3) The Medium of Examination will be English.

4) Syllabus for written test for the post of Program Assistant (Computer). The standard for the written test will be equivalent with graduate level.

## 1. English : (25 Marks)

The subject will include Spelling, English Grammar, English Transformation, Sentences and use of words, Vocabulary of graduate level.

## 2. Aptitude Test : (25 Marks)

The questions of general intelligence and reasoning in order to judge ability and promptness of the candidate in giving correct answers.

## 3. Computer Subject (50 Marks)

**Computer Science Fundamentals:**

Introduction to Computers, Basic Components & Storage systems, Computer Software & Languages, Introduction to MS DOS & Windows

**Programming Languages and Technologies:**

Programming in languages like C, C++, Java, Python

**Data Analysis and Manipulation:**

Data analysis and visualization using tools Excel and R

**Web / Software Development and Tools:**

Front-end development (HTML, CSS, JavaScript), Back-end development (SQL, MySQL), Web security best practices, web development environments, text editors, integrated development environments (IDEs) and debugging tools

**Software Development Lifecycle:**

SDLC phases (requirements gathering, design, development, testing, deployment, maintenance), Agile and Scrum methodologies

**Computer and Cyber Security:**

Basic principles of computer security, Cybersecurity best practices, Secure coding practices

**Operating Systems and System Administration:**

Familiarity with Windows and Linux operating systems (concepts, processes, memory management, and file systems), system administration tasks and concepts.

**Networking:**

Basic networking concepts, topologies and devices, IP addressing, OSI and TCP/IP models, TCP/IP, DNS, DHCP, HTTP, HTTPS, FTP, SMTP, POP3, IMAP, DNS, DHCP, ICMP protocols and IoT concepts.

**Databases management systems:**

Relational database concepts, SQL queries and database management, Database models and modelling, Entity-Relationship Diagrams (ERD), Normalization, Transactions & Concurrency Control and Big Data & Data Warehousing.

**Data Structures and Algorithms:**

Arrays, linked lists, stacks, queues, trees (binary trees, binary search trees, AVL trees) and algorithms (sorting and searching and their complexities)

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