



छत्रपति शाहू जी महाराज विश्वविद्यालय, कानपुर  
CHHATRAPATI SHAHU JI MAHARAJ UNIVERSITY, KANPUR  
(पूर्ववर्ती कानपुर विश्वविद्यालय, कानपुर)  
Formerly Kanpur University, Kanpur 208024

पत्रांक: सी.एस.जे.एम.वि.वि./पाठस्ववि0पो0पाठ/115/2023

दिनांक: 06/04/2023

**सूचना**

विश्वविद्यालय परिसर में संचालित स्ववित्तपोषित योजनान्तर्गत विभिन्न स्कूल ऑफ स्टडीज हेतु शिक्षणेत्तर कर्मचारियों के नव सृजित एवं रिक्त पदों पर चयन हेतु सक्षम स्तर द्वारा निम्नोक्त चयन प्रक्रिया का निर्धारण किया गया है।

पद का नाम	चयन प्रक्रिया																												
Senior Establishment Accountant	साक्षात्कार—100% अधिभार																												
Accountant	लिखित परीक्षा—40% अधिभार <b>Objective Type Test: Mark: 200</b> 1- Balance sheet, Profit & Loss, Income & Expenditure 2- Ratio analysis 3- Funds flow Statement 4- Income Tax provisions effective for the assessment 2023-24 in context of salaried employees 5- GST Liability for Higher Education Institution 6- TDS Provisions with respect Income Tax & GST स्किल टेस्ट—45% अधिभार 1- Preparation of Account with help of Tally Software साक्षात्कार—15% अधिभार (चयन, उपरोक्त तीनों विशेषताओं के सकल योग पर निर्धारित योग्यता सूची के अनुसार)																												
Programmer/Web Developer	स्किल टेस्ट (स्किल टेस्ट में उत्तीर्ण होने के लिए न्यूनतम अर्हकारी अंक 60% हैं। अर्हकारी प्राप्तांक प्राप्त करने वाले अभ्यर्थी को ही चयन के द्वितीय चरण में सम्मिलित होने की अनुमति होगी) <b>Skill Test*: Mark: 100</b> <table><tr><td>1</td><td>Basic programming skills</td><td>2</td><td>Relational Databases</td></tr><tr><td>3</td><td>Web Technology</td><td>4</td><td>Version Control System</td></tr></table> <p>*Programming/skill test exercises will be independent of programming languages.</p> लिखित परीक्षा—85% अधिभार <b>Objective Type Test: Mark: 200</b> <table><tr><td>1</td><td>General Aptitude</td><td>2</td><td>Critical Reasoning</td></tr><tr><td>3</td><td>Numerical Ability</td><td>4</td><td>Data Structures</td></tr><tr><td>5</td><td>Basic Algorithms</td><td>6</td><td>Basic Cryptography &amp; Network Security</td></tr><tr><td>7</td><td>Networking Fundamentals</td><td>8</td><td>Relational Databases</td></tr><tr><td>9</td><td>Web Technology</td><td>10</td><td>Software Engineering</td></tr></table> साक्षात्कार—15% अधिभार (चयन, उपर्युक्त दोनों विशेषताओं के सकल योग पर निर्धारित योग्यता सूची के अनुसार)	1	Basic programming skills	2	Relational Databases	3	Web Technology	4	Version Control System	1	General Aptitude	2	Critical Reasoning	3	Numerical Ability	4	Data Structures	5	Basic Algorithms	6	Basic Cryptography & Network Security	7	Networking Fundamentals	8	Relational Databases	9	Web Technology	10	Software Engineering
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Junior Server Administrator	स्किल टेस्ट (स्किल टेस्ट में उत्तीर्ण होने के लिए न्यूनतम अर्हकारी अंक 60% हैं। अर्हकारी प्राप्तांक प्राप्त करने वाले अभ्यर्थी को ही चयन के द्वितीय चरण में सम्मिलित होने की अनुमति होगी) <b>Skill Test*: Mark: 100</b>																												

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	<div>1. Client Site configuration &amp; creation of virtual machine</div> <div>2. Fire wall configuration</div> <div>3. Server configuration</div> <div>लिखित परीक्षा</div> <div>Objective Type Test: Mark: 200</div> <table><tr><td>1</td><td>Linux</td><td>2</td><td>Web Server Configuration</td></tr><tr><td>3</td><td>Windows Server</td><td>4</td><td>Active Directory</td></tr><tr><td>5</td><td>AWS</td><td>6</td><td>Sophos Firewall</td></tr><tr><td>7</td><td>SAN Storage</td><td>8</td><td>LAN Creation</td></tr><tr><td>9</td><td>LAN Mapping</td><td>10</td><td>NATting in Sophos</td></tr><tr><td>11</td><td>VPN Creation in Sophos</td><td></td><td></td></tr></table> <div>(चयन, लिखित परीक्षा के प्राप्तांक के आधार पर निर्धारित योग्यता सूची के अनुसार)</div>	1	Linux	2	Web Server Configuration	3	Windows Server	4	Active Directory	5	AWS	6	Sophos Firewall	7	SAN Storage	8	LAN Creation	9	LAN Mapping	10	NATting in Sophos	11	VPN Creation in Sophos														
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Hardware Support Technician	<div>स्किल टेस्ट</div> <div>(स्किल टेस्ट में उत्तीर्ण होने के लिए न्यूनतम अर्हकारी अंक 60% हैं। अर्हकारी प्राप्तांक प्राप्त करने वाले अभ्यर्थी को ही चयन के द्वितीय चरण में सम्मिलित होने की अनुमति होगी)</div> <div>Skill Test*: Mark: 100</div> <table><tr><td>1</td><td>Installation of Printer</td><td>2</td><td>Troubleshooting of Computer</td></tr><tr><td>3</td><td>OS Installation</td><td>4</td><td>Networking Troubleshooting</td></tr><tr><td>5</td><td>Computer Hardware Maintenance</td><td></td><td></td></tr></table> <div>लिखित परीक्षा</div> <div>Objective Type Test: Mark: 200</div> <table><tr><td>1</td><td>Fundamentals of Computer</td><td>2</td><td>Fundamentals of Operating System</td></tr><tr><td>3</td><td>Word Processing</td><td>4</td><td>Spreadsheet</td></tr><tr><td>5</td><td>Presentation</td><td>6</td><td>Fundamentals of Internet and WWW</td></tr><tr><td>7</td><td>E-mail, Social Networking and e-Governance Services</td><td></td><td></td></tr></table> <div>(चयन, लिखित परीक्षा के प्राप्तांक के आधार पर निर्धारित योग्यता सूची के अनुसार)</div>	1	Installation of Printer	2	Troubleshooting of Computer	3	OS Installation	4	Networking Troubleshooting	5	Computer Hardware Maintenance			1	Fundamentals of Computer	2	Fundamentals of Operating System	3	Word Processing	4	Spreadsheet	5	Presentation	6	Fundamentals of Internet and WWW	7	E-mail, Social Networking and e-Governance Services										
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**Technical Assistant**

Computer  
Application/  
Computer Sci. &  
Eng.  
Mechanical Eng.  
Agriculture Sci. &  
Tec.  
Physics  
Chemistry

**स्किल टेस्ट**

(स्किल टेस्ट में उत्तीर्ण होने के लिए न्यूनतम अर्हकारी अंक 60% हैं। अर्हकारी प्राप्तांक प्राप्त करने वाले अभ्यर्थी को ही चयन के द्वितीय चरण में सम्मिलित होने की अनुमति होगी)

**Skill Test\*: Mark: 100**

**Computer Application/Computer Sciences & Engineering**

Installing new hardware and software, Troubleshooting, implementing repairs and updates to computer systems. Database Concepts, Digital Logic, Computer Organization and Architecture, Basic Programming concepts (Java/ C/ C++) and Data Structures, Algorithms, Data Analytics Languages (Python3 /R), AI/ ML, Operating System, Networking Concepts, Information & Cyber Security Concepts

**Mechanical Engineering**

**Agriculture Sci. & Tec.**

1	Manure and fertilizers: Method of application and dosage.	2	Bio-fertilizers
3	Orchard planning and layout	4	Care and management of orchard
5	Post- harvest management of horticultural crops	6	Value- addition of horticultural crops
7	Propagation techniques of different horticultural crops	8	Nursery management
9	Plant protection measures	10	Floriculture and landscaping

**Physics**

1. To measure diameter of a pencil with help of vernier caliper.
2. To identify value of two resistance with help of colour code.
3. Verification of Ohm's Law with help of a battery, volt meter a-meter, rheostat.
4. To plot a graph through MS Excel with given set of data point.

**Chemistry**

BOD, COD, ph meter, conductivity meter, distillation assembly.

**Objective Type Test: Mark: 200**

MCQ Question based on Syllabus of Diploma (Mechanical Engineering)

**लिखित परीक्षा**

**Objective Type Test: Mark: 200**

**Computer Application/Computer Sciences & Engineering**

1	Fundamentals of Computer	2	Fundamentals of Operating System
3	Word Processing	4	Spreadsheet
5	Presentation	6	Fundamentals of Internet and WWW
7	E-mail, Social Networking and e-Governance Services		

**Mechanical Engineering**

**Objective Type Test: Mark: 200**

MCQ Question based on Syllabus of Diploma (Mechanical Engineering)

**Agriculture Sci. & Tec.**

Layout and establishment of orchards; pruning and training; propagation, climatic requirement and cultivation of fruits like mango, banana, guava, grape, pineapple, papaya, apple, pear, peach and plum; cultivation of plantation crops like coconut and cashew nut and spices like black pepper, coriander, turmeric, important physiological disorders; major vegetable crops of tropical, subtropical and temperate regions like cole crops (cauliflower, cabbage and knoll khol), cucurbits (pumpkin,



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bottle gourd, bitter melon, luffa, muskmelon and watermelon, cucumber), root crops (radish, tapioca sweet potato and potato), leafy vegetables (fenugreek and spinach); solanaceous crops (tomato, chillies and brinjal); techniques for raising the nursery; nutritive value of fruits and vegetables and their role in human nutrition; basic physiology of ripening in fruits and vegetables and their products; type of fruits and vegetable products and control of fungal and bacterial diseases; major floricultural crops grown in India for commercial purposes like rose, carnation, chrysanthemum, marigold, tuberose, gladiolus, orchids; establishment and maintenance of lawns, trees, shrubs, creepers, hedges and annuals; type of gardens, methods of crop improvement; male sterility and incompatibility; pure line and pedigree selection; backcross, mass selection; heterosis; plant nutrients, deficiency symptoms of nutrients, manures and fertilizers, systems of irrigation, management of important pests and diseases of fruits and vegetables.

**Physics**

1. Measurement of wavelength of He-Ne laser using a steel scale.
2. Passive Filter
3. Resolving power of prism
4. Young's Modulus and Poisson's ratio of glass by Cornu's fringes
5. Verification of Fresnel's formula
6. Thermal and electrical conductivity of copper and thermal conductivity of a poor conductor
7. Verification of Curie and Weiss law for a ceramic capacitor
8. Calibration of a silicon diode and copper constantan thermocouple against Pt Resistance thermometer
9. Measurement of inductance and capacitance and study of LCR series and parallel
10. I-V characteristics of Silicon controlled rectifier
11. I-V characteristics of Uni-junction transistor
12. MOSFET characteristics.
13. Measurement of inductance and capacitance using AC bridges
14. AC Experiments Measurements of L and C and Series and parallel Resonant circuits.
16. Rigidity modulus of a brass wire.
17. Measurement of resistivity of semiconductor by four probe method and determination of band gap.
18. Measurement of Hall coefficient of given semiconductor to estimate charge carrier.
19. Measurement of thermal and electrical conductivity of copper and determination of Lorentz number.
20. B-H curve of a ferromagnetic material.
21. Measurement of polarizability of nonpolar liquid and dipole moment of polar liquid.
22. Dielectric constant of solid (Wax) by Lecher wire

**Chemistry**

**Theory/Objective Type Test: Mark: 400**

**Inorganic Chemistry:** Qualitative semimicro analysis of mixtures of anions, cations, interfering radicals. Oxidation-Reduction Titration, Acid-Base Titrations, Iodo / Iodimetric Titrations, complexometric titration, Gravimetric Analysis, Chromatography of metal ions, Solvent Extractions, Spectrophotometry, Inorganic complex Preparations.

**Physical Chemistry:** Surface tension measurements, Viscosity measurement using Ostwald's viscometer, pH metry, Conductometry, Potentiometry, Determination of heat capacity, Determination of enthalpy Determination of basicity / proticity, Calculation of the enthalpy, Study the kinetics, Phase equilibria, Determination of critical solution temperature and composition, Polymer synthesis.

**Organic Chemistry:** Purification of organic compounds by crystallization, Determination of the melting points, Effect of impurities on the melting point, Detection

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	<p>of extra elements, Functional group test for nito, amine and amide, alcohols, phenols, carbonyl and carboxylic acid groups, Organic preparations.</p> <p>(चयन, लिखित परीक्षा के प्राप्तांक के आधार पर निर्धारित योग्यता सूची के अनुसार)</p>
<b>Data Entry Operator</b>	<p>स्किल टेस्ट</p> <p><b>Soft skill test in computing (Computer based practical test with maximum marks 100)</b></p> <p>Use of Microsoft package to create a document/database &amp; export/import of this information among different software of Microsoft office.</p> <p><b>Typing Skill</b></p> <p>minimum eligibility 25 wpm in Hindi and 30 wpm in English (candidate scoring these level collectively will be deemed to have score 60% Marks.</p> <p>(स्किल टेस्ट में उत्तीर्ण होने के लिए उपरोक्त दोनों विशेषताओं में स्वतंत्र रूप से न्यूनतम अर्हकारी अंक [60%] प्राप्त करना अनिवार्य हैं। अर्हकारी प्राप्तांक प्राप्त करने वाले अभ्यर्थी को ही चयन के द्वितीय चरण में सम्मिलित होने की अनुमति होगी)</p> <p>लिखित परीक्षा</p> <p><b>Objective Type Test: Mark: 200</b></p> <ol style="list-style-type: none"> <li>1- Fundamentals of Computer</li> <li>2- Fundamentals of GUI Based Operating System</li> <li>3- Fundamentals of Word Processing</li> <li>4- Spreadsheet</li> </ol> <p>(चयन, लिखित परीक्षा के प्राप्तांक के आधार पर निर्धारित योग्यता सूची के अनुसार)</p>
<b>Junior Establishment Officer</b>	<p>लिखित परीक्षा—60% अधिभार</p> <p><b>Objective Type Test: Mark: 200</b></p> <ol style="list-style-type: none"> <li>1- CCS Leave rules</li> <li>2- Fundamentals of Disciplinary Proceeding</li> <li>3- Major &amp; minor Punishment &amp; its consequences</li> <li>4- Drafting of minutes of meeting</li> </ol> <p>प्रस्तुतीकरण—25% अधिभार</p> <p>साक्षात्कार—15% अधिभार</p> <p>(चयन, उपरोक्त तीनों विशेषताओं के सकल पर निर्धारित योग्यता सूची के आधार पर)</p>
<b>Senior Lab Technician</b>	<p>स्किल टेस्ट</p> <p>(स्किल टेस्ट में उत्तीर्ण होने के लिए न्यूनतम अर्हकारी अंक 60% हैं। अर्हकारी प्राप्तांक प्राप्त करने वाले अभ्यर्थी को ही चयन के द्वितीय चरण में सम्मिलित होने की अनुमति होगी)</p> <p><b>Skill Test*: Mark: 100</b></p> <ol style="list-style-type: none"> <li>1. Test for ketone Bodies in given urine sample.</li> <li>2. Perform the process of peripheral blood smear making and stain it.</li> <li>3. Perform SGPT &amp; SGOT tests of given serum sample</li> <li>4. Identify the colony of bacteria on given culture plate by gram's on given culture plate by gram's staining</li> <li>5. Perform CBC.</li> </ol> <p>लिखित परीक्षा</p> <p><b>Objective Type Test: Mark: 200</b></p> <p><b>Blood Banking and Immune Haematology</b></p> <ul style="list-style-type: none"> <li>• Blood Group- methods of grouping and ungrouping</li> <li>• Methods of determination of PCV</li> <li>• Blood transfusion and hazards</li> <li>• Methods of estimation of Hemoglobin</li> </ul>



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	<p><b>Basic Haematology</b></p> <ul style="list-style-type: none"> <li>Origin, Development, and morphology of Blood cells</li> <li>Composition of blood and its functions</li> <li>Basic concepts of Anaemia, Leukaemia, and hemorrhagic disorder</li> <li>Bleeding time, clotting time, prothrombin time, PTT</li> <li>Clotting disorder tests &amp; test for bleeding disorders</li> </ul> <p><b>Clinical Pathology (body fluids) and Parasitological</b></p> <ul style="list-style-type: none"> <li>The Microscope- Types, Parts, Cleaning, and Care</li> <li>Reception of Patients</li> <li>Examination of Body Fluids</li> <li>Examination of Urine and sputum.</li> </ul> <p><b>Clinical Biochemistry</b></p> <ul style="list-style-type: none"> <li>Disorders of Carbohydrates</li> <li>Nutritional Disorders</li> <li>Clinical Enzymology</li> <li>Kidney function tests</li> <li>Liver function tests</li> <li>Autoimmune diseases</li> <li>Metabolic disorder tests</li> <li>Lipid Profile tests</li> </ul> <p><b>Microbiology &amp; Immunology</b></p> <ul style="list-style-type: none"> <li>Examination of stool for ova and parasites</li> <li>Media used in lab</li> <li>Laboratory diagnosis of various bacterial infections.</li> <li>Biosafety measures</li> <li>Antibiotic sensitivity testing</li> <li>Antigens</li> <li>Antibodies</li> <li>Types of Antigens &amp; antibodies</li> <li>Immunoglobulins</li> <li>Antigen &amp; antibody reactions</li> </ul> <p>(चयन, लिखित परीक्षा के प्राप्तांक के आधार पर निर्धारित योग्यता सूची के अनुसार)</p>
Physiotherapist	<p>स्किल टेस्ट (स्किल टेस्ट में उत्तीर्ण होने के लिए न्यूनतम अर्हकारी अंक 60% हैं। अर्हकारी प्राप्तांक प्राप्त करने वाले अभ्यर्थी को ही चयन के द्वितीय चरण में सम्मिलित होने की अनुमति होगी)</p> <p><b>Skill Test*: Mark: 100</b></p> <ol style="list-style-type: none"> <li>Show types of placement of S.W.D. electrodes.</li> <li>Show Mobilization of shoulder joint in PA Shoulder.</li> <li>Placing of electrodes of IFT &amp; TENS in LBP</li> <li>Enumerate use of Ultrasound Therapy</li> <li>Advise various exercises for OA knee &amp; LBP.</li> </ol> <p>लिखित परीक्षा</p> <p><b>Objective Type Test: Mark: 200</b></p> <p><b>Electrotherapy</b></p> <ul style="list-style-type: none"> <li>Low frequency, IFT, TNS</li> <li>Motor nerve activation</li> <li>Magnetic energy to valves &amp; condensers</li> <li>Electrical fundamentals</li> <li>UV &amp; Hydro collateral</li> </ul>

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छत्रपति शाहू जी महाराज विश्वविद्यालय, कानपुर  
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(पूर्ववर्ती कानपुर विश्वविद्यालय, कानपुर)

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	<ul style="list-style-type: none"> <li>• I.R.R</li> <li>• Cryotherapy</li> <li>• High-frequency current – Treatment</li> <li>• Electro-diagnostic therapeutic hear</li> <li>• Low-frequency current</li> <li>• Muscle stimulation</li> <li>• S W D, US Microwave</li> </ul> <p><b>Exercise Therapy</b></p> <ul style="list-style-type: none"> <li>• Massage</li> <li>• Posture, Coordination &amp; Breathing exercise</li> <li>• Suspension Therapy</li> <li>• Passive, Active, Assisted, Resisted Movement</li> <li>• Yoga, Joint &amp; Joint analysis</li> <li>• P.N.F., Joint movement</li> <li>• Muscle Strength</li> <li>• Muscle Assessment</li> </ul> <p><b>Biomechanics &amp; Kinesiology</b></p> <ul style="list-style-type: none"> <li>• Structure and function of shoulder complex</li> <li>• Structure and function of knee complex</li> <li>• Structure and function of hip complex</li> <li>• Structure and function of elbow complex</li> </ul> <p><b>Physiotherapy in Orthopaedics Conditions</b></p> <ul style="list-style-type: none"> <li>• Fracture, dislocation &amp; Amputation</li> <li>• Inflammatory conditions &amp; deformity</li> <li>• Operative procedures</li> <li>• Soft tissue injuries &amp; Arthritis</li> <li>• Paraplegic quadriplegia rehabilitation</li> </ul> <p><b>Physiotherapy in Neurological &amp; Surgical Conditions</b></p> <ul style="list-style-type: none"> <li>• Spinal surgery</li> <li>• Chest Physiotherapy</li> <li>• Plastic surgery</li> <li>• Anti natal &amp; post-natal physiotherapy</li> <li>• Pre and post-operative physiotherapy</li> <li>• Cervical &amp; Lumbar spondylosis</li> <li>• Role of Physiotherapy in surgery</li> <li>• Disc prolapse</li> <li>• Neuro Surgical conditions with traumatic brain injuries</li> <li>• Management in Abdominal surgery</li> <li>• Lobectomy</li> <li>• Postural drainage</li> <li>• Burns</li> <li>• Spinal Cord injuries</li> </ul> <p>(चयन, लिखित परीक्षा के प्राप्तार्क के आधार पर निर्धारित योग्यता सूची के अनुसार)</p>
Training & Placement Officer	<p>लिखित परीक्षा-40% अधिभार</p> <p><b>Objective Type Test: Mark: 200</b></p> <ol style="list-style-type: none"> <li>1- General Aptitude and Verbal Reasoning</li> <li>2- Communication Skills(English)</li> <li>3- Human Resource Management &amp; Development</li> <li>4- OrganizationalBehaviors&amp; Industrial Relations</li> </ol>





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	प्रस्तुतीकरण-45% अधिभार साक्षात्कार-15% अधिभार (चयन, उपरोक्त तीनों विशेषताओं के सकल योग पर निर्धारित योग्यता सूची के अनुसार)
<b>Lab Assistant</b> Agriculture Sci. & Tec. School of Language Psychology School of Basics Sciences	स्किल टेस्ट Capable to handle equipments/chemicals/Glass wares of concerned lab. लिखित परीक्षा <b>Lab Assistant:(Agriculture, Language, Psychology, Basic Science)</b> <b>Objective Type Test: Mark: 200</b> 1- General Aptitude 2- Critical Reasoning 3- Numerical Ability (लिखित परीक्षा के प्राप्तांक के आधार पर निर्धारित योग्यता सूची के अनुसार)

कुलसचिव