



Central University of Jammu

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SELECTION PROCEDURE FOR GROUP A POSTS ADVERTISED UNDER EMPLOYMENT NOTIFICATION

NO. 17 DATED 22.09.2016

Selection of the candidates will be done on the basis of 2-tier examination/test, performance in Interview and candidates entry score marks.

A. 2-tier Examination/tests

The 2-tier examination consists of the following two tests:

1. Written test
2. Skills test

It will be mandatory for candidates to score a minimum of 40% marks in each tier and 50% marks in aggregate in two tests. The standard of test will be as per Basic qualification requirement of the job/post applied for. There will be no negative marking for wrong answers in tests.

The distribution of marks in the written test is as under:

1. Written Test – Maximum marks 50

Category	No. of Questions	Marks Allotted	Type of Paper	Time Allotted
General Awareness/Current Affairs/General Aptitude	05	05	Objective	Composite time of 1 hour and 30 minutes
General English	05	05		
Reasoning/Numerical Aptitude/Mental Ability	10	10		
Domain Knowledge	30	30		
Total	50	50		

Qualifying marks of written test: 20 marks.

Candidates scoring equal to or more than qualifying marks (i.e. equal to or more than 20 marks) shall be permitted to appear in the skills test.

2. Skills test: 15 marks

This test will be of applied and practical nature conducted by the expert committee in respective Laboratory/ Library/Field/Workstation applicable to the post.

Qualifying marks for skills test: 06 marks

B. Interview – Maximum 20 marks

Candidates scoring minimum of 50% marks in 2-Tier Examination (written test and skill test combined) shall be allowed to appear before the selection committee for Interview.

C. Entry score of Candidates – Maximum 15 marks

Aggregate marks for consideration in the final merit list will have a component of candidate's entry score based on the following marks scheme/grades as below:

1. Basic Qualification:

Percentage or equivalent grade	Upto 50%	50 to less than 60	60 to less than 70	70 to less than 80	80 to less than 90	90 to 100
Marks	1	2	3	4	5	6

2. Post Basic qualification experience from Government / Semi Government/ PSUs/ Autonomus Bodies only:

Experience	Upto 1 year	1 year to less than 2 years	2 years to less than 3 years	3 years to less than 4 years	4 years to less than 5 years	More than 5 years
Marks	1	2	3	4	5	6

3. Marks/ Grade scored in additional qualification (Degree/Diploma) directly related to job/post applied for (only one highest degree/diploma to be considered issued by UGC/Universities/Boards/Affiliated bodies)

Percentage or equivalent grade	Upto 50%	50% to less than 60%	60% or above
Marks	1	2	3

Final Selection/Merit List

Final Merit list will be prepared taking into consideration the following:

Sl.No.	Category	Marks Allotted	Minimum Qualifying marks
(A-1)	Written test	50	20 (40%)*
(A-2)	Skill test	15	06 (40%)*
(B)	Interview	20	
(C)	Entry Score / Marks	15	
	Total	100	

* Aggregate of (b) and (c) should be minimum of 32.5 marks (50% of total marks of written test) for being considered for final merit list.

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Registrar

CENTRAL UNIVERSITY OF JAMMU
WRITTEN-TEST SYLLABUS FOR THE POST OF
SYSTEM ANALYST (Modified)

Unit-I:

Engineering Mathematics

Mathematics Logic: Propositional Logic: First Order Logic. Probability: Conditional Probability: mean, Median, Mode and Standard Deviation; Random Variables; Distributions; uniform, normal, exponential, Poisson, Binomial Set Theory & Algebra; Sets; Relations; Functions; Groups; partial Orders; Lattice; Boolean Algebra, Recurrence relations, asymptotic analysis, Linear Algebra; Algebra of matrices, determinants, and systems of linear equations, Numerical Methods; LU decomposition for systems of linear equations; numerical solutions of non-linear algebraic equations by Secant, Bisection and Newton-Raphson Methods; Numerical integration by trapezoidal and Simpson's rules. Calculus: Limit. Continuity & differentiability, Mean value Theorems. Theorems of integral calculus evaluation of definite & improper integrals, partial derivatives, Total derivatives, maxima & Minima.

Unit- 2:

Computer Networks & Operating System

Computer Networks, TCP/IP, Model, Routing Protocols, SMTP (Simple Mail Transfer Protocol), Virtual LAN (VLAN), VoIP (Voice over IP), Wireless Networks, WLAN, Wi-Fi, LAN Testing Networks Extensions. Network **Protection & Security Threats, Networks** Change Management, Proxy Server, Web Server & File Servers. Operating System: Types process management. Memory Management. Microsoft Windows & Linux Installation & Configuration.

Unit-3:

IT Project Management

Software Development Life Cycle, Requirement Analysis & Engineering, IT Project planning & Execution, Rational Unified Process, Unified Modeling Language. Software Analysis & Design, Concepts of OOPs. Object Oriented Analysis and Design, Cost & Benefit Analysis, Software Change Management, Software Testing. IT Vendor Management, Client/Server architecture, development of web based applications.

Unit- 4

Internet & Web Technologies

Static & Dynamic Web Development: HTML, Java Script, JSON, AJAX, XML. Web Servers, Tomcat, Apache WAMP, IIS etc. Server side Programming Language- C# net. Java. VB net, Web Design Tools, Mail Server, Browser Configuration, DNS & Web Hosting, Web Services.

Unit- 5

Database Management System & tools

Database Management System – Database design (integrity constraints, normal forms), Data Base Models, Relational model (relational algebra tuple calculus), Data Analysis, ER diagrams, Database tools; SQL, SQL Developer. Database Server- My SQL Oracle, SQL Server Object Relational Mapping (ORM) Tools, Transactions and concurrency control, Learning Management System (LMS), Content Management System (CMS), Software Installation & Configuration.

CENTRAL UNIVERSITY OF JAMMU
WRITTEN- Syllabus for the post of Information Scientist
(With IT and Computer Science background)

Unit I

Information, Information Science, Information Society, Information as a Resource / Communication Information Transfer Cycle (Generation, Collection, Storage and Dissemination), Role of Information (In Planning, Management, socio Economic Development, Technology Transfer), Communication (Channel, Barriers), Intellectual Property Rights (Concept, Copyright, Censorship, Print and non Print Media), Library and Information Policy at the National Level, E-documents (e-books, e-journals), Database [Bibliographic, Numeric and Full text Evaluation]

Reference and Information Services, Referral Services, Bibliographic Service, Indexing and Abstracting Services, CAS, SDI, Digest Service, Trend Report, Online Service, Translation Services, Reprographic Services.

Unit- II

Computer Networks, TCP/IP, Model, Routing Protocols, SMTP (Simple Mail Transfer Protocol), Virtual LAN (VLAN), VoIP (Voice over IP), Wireless Networks, WLAN, Wi-Fi, LAN Testing Network Extension. Network Protection & Security Threats, Networks Change Management, Proxy Server, Web Servers & File Servers, Operating System: Types, Process management, Memory Management, Microsoft Windows & Linux Installation & Configuration.

Unit- III

Static & Dynamic Web Development, HTML, Java Script, JSON, AJAX, XML, Web Servers: Tomcat, Apache, WAMP, IIS etc, Server side Programming Language-C# net, Java, VB net PHP, Web Design Tools, Server, Browser Configuration, DNS & Web Hosting, Web Services.

Unit-IV

Database Management System- Database design (Integrity constraints, normal forms), Data Base Models, Relational model (relational algebra, tuple calculus). Data Analysis, ER diagrams, Database tools: SQL, SQL Developer, Database Server- MY SQL, Oracle, SQL Server Object Relational Mapping (ORM) Tools. Transaction and concurrency control, Learning Management System (LMS), Content Management System (CMS), Software Installation & Configuration.

Unit- V

Software Development Life Cycle, Requirement Analysis & Engineering, IT Project Planning & Execution, Rational Unified Process, Unified Modeling Language, Software Analysis & Design, Concepts of OOPs, Object Oriented Analysis and Design, Cost & Benefit Analysis, Software Change Management, Software Testing, IT Vendor Management, Client/Server architecture, deployment of web based applications.