CENTRAL UNIVERSITY OF RAJASTHAN
N.H-8, BANDARSINDRI, KISHANGARH – 305817
DISTRICT – AJMER (RAJASTHAN) INDIA

Syllabus for Written test and shortlisting criteria for the posts of
System Analyst and Information Scientist

Step-I : The written examination will comprise two papers. The criteria for written examination are as follows:

(1) Paper-I: Multiple Choice Questions (MCQs):

S. No.	Subject	No. of MCQs	Max. Marks	Duration
1.	Language proficiency in English, General Knowledge, Analytical Ability, University System, Central Universities Act, 2009, Statutes and Ordinances, Office Procedures, Filing, Noting, Drafting, Basic GoI Rules etc.	50	50	1½ hrs
2.	Questions relevant to subjects of Computer Science, Information Technology at Masters level* *i.e.* work profile of the Post	50	50	
	Total	**100**	**100**	

Note- *Language of the test paper will be English only. Each correct answer will carry 01 mark and for each wrong answer, 0.25 marks will be deducted. Qualifying marks in written test (Paper-I) will be 35.*

(2) Paper-II: Descriptive Type Questions:

S. No.	Subject/Syllabus	No. of Questions	Maximum Marks	Duration
1	Language proficiency in English University System, Central Universities Act, 2009, Statutes and Ordinances, Office Procedures, Filing, Noting, Drafting, and Basic GoI Rules, Current Affairs **and / or** Questions relevant to subjects of Computer Science, Information Technology at Masters level* *i.e.* work profile of the Post	05 to 10	50 marks	1 hour

Note: *The Answer Script of Paper-II of a candidate would be evaluated, only if the candidate qualifies in Paper-I (min. 35 marks).*

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Step-II : On the basis of the marks in the written test, shortlisted candidates (in the ratio of 1:20) will be called for interview. University may impose a cut off for the purpose of shortlisting for interview.

Merit of the shortlisted candidates shall be calculated **as follows:** on the basis of the academic career (30%) and performance in the written test (70%) as depicted below.

Qualifications/Experiences/ performance in written test	Weightage/ Marks (Max.)
Qualifying Degree (20% of % of marks secured)	20
Additional Certificate in relevant field	10
Written Test	70
Total	**100**

Step-III : Interview and selection of the candidates in order of merit.

Criteria	Weightage/ Marks (Max.)
80% of the total marks secured in the shortlisting process (out of 100) as mentioned in **Step-II**	80
Interview	20
Total	**100**

Syllabus for Computer Science, Information Technology

Operating Systems:
CPU Scheduling
Deadlocks
Memory Management
Security
Virtual Memory
Threads

Networks:
Computer Networking Basics
WWW and HTTP
Wired LAN, Ethernet
Wireless LAN, WiFi, VOIP, VLAN
Internet Protocols
Cryptography

Database:
Database Design – ER Model
Relational Model – Relational Algebra
Normalization, Integrity Constraints
SQL, Querying with SQL
PL/SQL
Transaction
Recovery
Concurrency Control

Web Applications:
Web Server and Web Applications basics
HTML, DHTML, XML
Scripting, Java
Sevelets, Applets
Object Oriented Programming
Polymorphism

Software Engineering:
Software Development Life Cycle
Requirement Analysis
Software Metric
Software Project Management
Cost Benefit Analysis
Software Testing
Software Maintenance

Schedule of Written Test and Interview

Position	Date, Time and Venue of Written Test	Date, Time and Venue for document verification of shortlisted candidates	Date, Time and Venue for Interview of shortlisted candidates
System Analyst	05.03.2023 – 10.00 AM 4A5 Building Central University of Rajasthan	06.03.2023 – 09.30 am Recruitment Cell, Admin. Building Central University of Rajasthan	06.03.2023 – 03.00 pm Administrative Building Central University of Rajasthan
Information Scientist		06.03.2023 – 01.00 pm Recruitment Cell, Admin. Building Central University of Rajasthan	07.03.2023 – 10.00 am Administrative Building Central University of Rajasthan