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CENTRAL UNIVERSITY OF KARNATAKA
Notification No. 24/2019, Dated:04-09-2019
Syllabus for Post of **SENIOR TECHNICAL ASSISTANT (COMPUTER)**

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SENIOR TECHNICAL ASSISTANT (COMPUTER)

The written Examination will consist of an **Objective Type Paper** of 100 Multiple Choice Questions (MCQs) divided into the parts I and II of 40 and 60 MCQs each.

Part	Subject	Maximum Marks	Duration
Part I	General English, General Knowledge, Numerical Ability and Reasoning	40	2 Hrs.
Part II	Computer/IT Proficiency	60	
	Total	**100**	

Part-I

A. **General English:** Questions in this component will be designed to test the Candidate's understanding and knowledge of English Language like Error recognition, Fill in the blanks (using verbs, preposition, articles etc.), One word substitution, Improvement of Sentences, Vocabulary, Spellings, Grammar, Sentence Structure, Synonyms, Antonyms, Sentence Completion, Phrases and Idiomatic use of words, Comprehension of Passages, as may be expected of a well-educated person who has not made a special study of the subject.

B. **Numerical Aptitude & Reasoning:** The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The scope of the test will be the computation of whole numbers, decimals and fractions and relationships between numbers. It will test sense of order among numbers, ability to translate form one name to another, sense or order of magnitude, estimation or prediction of the outcome of computation, selection of an appropriate operation for the solution of real life problems and knowledge of alternative computation procedures to find answers. The questions would also be based on arithmetical concepts and relationship between numbers and not on complicated arithmetical computation. On general reasoning, the candidates will be tested on reasoning and analytical abilities.

C. **General Knowledge:** Questions will be designed to General Knowledge viz., General Science, current events of national and international importance, History of India and Indian National Movement, India and World Geography, Indian Polity & Economy, General Mental Ability, Central University of Karnataka, Indian States, India and other countries.

Part-II

Computer/IT Proficiency
Computer Fundamentals: Generations, H/W, S/W, Number Systems and their base conversions, sign- magnitude, 1's com complement and floating point representation of numbers. ASCII, EBCDIC and Unicode, BCD Codes.

Digital Logic: Boolean algebra, simplification of Boolean functions, logic gates, combinational and sequential circuits, memory system, I/O devices.

Data Base Systems: Concepts of databases, DBMS, normalization, MS-SQL,
Operating System: Concepts, different types, functions, Windows OS, MS-Office, Word, Excel, PowerPoint, Outlook Software Engg. (SDLC) with thorough knowledge of s/w testing.

Computer Network: Basic concepts topology types, Data Communications, N/W Security, Online Transaction Security, OSI Model devices and Protocols, Transmission.

Programming: Problem solving on a computer, algorithm, flowchart, decision tables, programming in C Language and C++ Language. Encoding signals.

 Skill Test: Knowledge of Programming and MS-SQL