

**Important Instructions to examiners:**

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more importance (Not applicable for subject English and Communication Skills).
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

Q. No	Sub Q. N.	Answer	Marking Scheme
1.	A)	Attempt any six:	12 Marks
	a)	Define complexity and classify it.	2M
	Ans:	Complexity: The complexity of an algorithm is a measure that describes its efficiency in terms of amount of time and space required for an algorithm to process. Classification: 1. Time complexity 2. Space complexity	(Definition: 1 mark, Classification: 1 mark)
	b)	State limitations of the Big 'O' notation.	2M
	Ans:	1. Many algorithms are too hard to analyze mathematically. 2. There may not be sufficient information to calculate the behavior of the algorithm in the average case. 3. Big-Oh analysis only tells us how the algorithm grows with the size of the problem, not how efficient it is, as it does not consider programming effort.	(Any two points: 1 Mark each)
	c)	Define searching and enlist its types.	2M
	Ans:	Searching: It is the process of finding a data element in the given data structure. Types: 1. Linear search 2. Binary search	(Definition: 1 mark, types: 1/2 mark each)



	d)	Stack is linear data structure. Yes/No? Justify your answer.	2M
	Ans:	Yes. Stack is a Linear data structure. Justification: Linear data structures allow organization of data elements in proper sequential manner. Stack is linear data structure because it organizes elements in a particular sequence. Stack allows insertion and deletion of element only from one end, so elements are inserted or deleted in a particular sequence.	(Yes: 1 mark, Justification: 1 mark)
	e)	Sketch representation of queue as an array.	2M
	Ans:		(Proper sketch representation)

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A Gutmann



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