

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

(ISO/IEC - 27001 - 2005 Certified)

MODEL ANSWER

SUMMER- 17 EXAMINATION

Subject Code:

17330

Important Instructions to examiners:

Subject Title: DATA STRUCTURE USING 'C'

- The answers should be examined by key words and not as word-to-word as given in themodel answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may tryto 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 thefigure. The figures drawn by candidate and model answer may vary. The examiner may give credit for anyequivalent
- 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.
- For programming language papers, credit may be given to any other program based on equivalent concept.

Q. No	Q. N.	Answer	Marking Scheme
1.	A)	Attempt any six:	12Marks
	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: Imark, Classification: Imark)
	b)	State limitations of the Big 'O'notation.	2M
	Ans:	 Many algorithms are too hard to analyze mathematically. There may not be sufficient information to calculate the behavior of the algorithm in the average case. 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)
	e)	Define searching and enlist its types.	2M1
	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)

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d)	Stack is linear data structure. Yes/No? Justify your answer.	234
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	(Yes:1 mark, Justification: 1 mark)
	deleted in a particular sequence.	
e)	deleted in a particular sequence. Sketch representation of queue as an array.	2M

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Rachel S Tattersall

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The Top Books of the Year Msbte Sample Ouestion Paper 2 Sem G Scheme 1 marks Me The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have captivated audiences this year. Msbte Sample Question Paper 2 Sem G Scheme 1marks Me: Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic: Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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