

MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

(Autonomous) (ISO/IEC - 27001 - 2013 Certified)

SUMMER- 19 EXAMINATION

Subject Name: Applied Mathematics

Model Answer

Subject Code:

22224

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.
- The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 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.
- 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.	Answers	Marking Scheme
1.		Solve any <u>FIVE</u> of the following:	10
	a)	If $f(x) = x^3 - 5x^2 - 4x + 20$ show that $f(0) = -2f(3)$	02
	Ans	$f(x) = x^3 - 5x^2 - 4x + 20$	
	NOUGIONS-19 EL-	$f(0) = (0)^3 - 5(0)^2 - 4(0) + 20 = 20$	5/9
		$\therefore f(3) = (3)^3 - 5(3)^2 - 4(3) + 20$	56
		=-10	
		$\therefore -2f(3) = -2 \times -10 = 20 = f(0)$	1
	00-7		
	b)	State whether the function $f(x) = x^3 - 3x + \sin x + x \cos x$, is odd or even.	02
	Ans	$f(x) = x^3 - 3x + \sin x + x \cos x$	200
		$f(-x) = (-x)^3 - 3(-x) + \sin(-x) + (-x)\cos(-x)$	3/2
		$= -x^3 + 3x - \sin x - x \cos x$	5/2
		$= -\left(x^3 - 3x + \sin x + x \cos x\right)$	5%
		=-f(x) ∴ Given function is odd.	2.2
		Given function is odd.	3/2
	c)	If $y = \sin x \cdot \cos 2x$, find $\frac{dy}{dx}$	02
		If $y = \sin x \cdot \cos 2x$, find $\frac{dy}{dx}$ $y = \sin x \cdot \cos 2x$	
	Ans	$y = \sin x \cos 2x$	

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celebration reminds us that the Father, the Son, and the Holy Spirit are working together. They are never separated, though, each one of ... Homily for The Holy Trinity, Year C (Updated 2023) Father Hanly's sermon for The Holy Trinity, Year C, "Hooray for God!" was delivered on 26th May 2013. It is sometimes hard to accurately transcribe Father ... TRINITY SUNDAY - Fr. Paul's Homily | St. Gregory the Great ... Trinity more than just an abstract doctrine that we take down off a shelf, dust off and admire once a year. Today we go forth from here mandated by our God ... Homily For Holy Trinity Sunday, Year A May 30, 2023 — Glory Be To The Father, To The Son And To the Holy Spirit, Amen! Readings: 1st: Ex 34, 4-6.8-9; Ps. (Dan 3, 52-56); 2nd: 2Cor 13: 11-13; ... Higher Secondary Practical Mathematics Higher Secondary Practical Mathematics; Genre. HSC 1st Year: Mathematics Pattho Sohayika; Publication. Ideal Books; Author. Professor Afsar Uz-Jaman. Professor Afsar Uz-Zaman - Md Asimuzzaman He was the author of several mathematics textbooks of higher secondary education of Bangladesh. ... Afsar Uz-Zaman wrote several books based on Mathematics which ... For BUET, which books should I solve in case of Physics? Feb 22, 2019 — What are the best books for solving mathematics and physics of undergraduate and high school level? ... books for physics, Afsar-uz-Zaman sir's ... Which books should I read to get into BUET besides hsc ... Aug 25, 2016 — I went through Ishaq sir's and Topon sir's books for physics, Afsar-uz-Zaman sir's and S U Ahmed sir's (for the Trig part) book for math and ... Reading free Abolition a history of slavery and antislavery (... Sep 25, 2015 — book is a reproduction of an important historical work forgotten books uses state of ... higher secondary mathematics solution by afsar uz zaman.