

23124

3 Hours / 70 Marks

Seat No.

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- Instructions :**
- (1) All Questions are compulsory.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

	Marks
1. Attempt any FIVE of the following :	10
(a) Find the value of x if, $\log_5 (x^2 - 5x + 11) = 1$	
(b) Find the value of $\sin (15^\circ)$ using compound angles.	
(c) Find the intercepts of the line $2x + 3y = 6$ on both the axes.	
(d) State whether the function is even or odd if, $f(x) = x^3 + 4x + \sin x$.	
(e) At which point on the curve $y = 3x - x^2$ the slope of the tangent is -5 ?	
(f) Divide 100 into two parts such that their product is maximum.	
(g) If mean is 34.5 and standard deviation is 5, find the co-efficient of variance.	



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Unveiling the Magic of Words: A Review of "**Msbte Question Paper Solution 2engineering Mathematics**"

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