Copy of 22103 Set B

Questions Responses

Section 1 of 2

22103

MSBTE theory online exam S-2020

This form is automatically collecting email addresses for Welcome to Vivekanand Education Society users. Change settings

Program Code:

Short answer text

Enrollment no: *

Short answer text

Seat no: *

Short answer text

After section 1 Continue to next section

Multiple Choice Questions

Attempt the following Question:

If tanA = 1/2 and ,tanB= 1/3 then tan[A + B] =.....

- 1
- -1
- 0
- none

cos2A =.....

- 2cosA - 1
- 2sinA -1
- Option 3
- none

Question

- Option 1
- Option 2

none

Other...

In which quadrant angle θ lie when the condition $3\pi/2 < \theta < 2\pi$ is given

3rd

1st

4th

2nd

Question

cosx

Option 2

Option 3

sinx

Question

- Option 2
- Option 3
- none

Sec[π/2+ A] =.....

- secA
- - CosecA
- -CosA
- SinA

tan[π/4 - A] = ...

- [1-tanA]/[tanA]
- [tanA]/[1+tanA]
- [1+tanA]/[1-tanA]
- [1-tanA]/[1+tanA]

sin2A=....

- 2sinA.cosA
- 2cosA
- 2SinA

cosC + cosD

- 4COS [(C+D)/2].COS[(C-D)/2]
- COS [(C+D)/2].COS[(C-D)/2]
- 2 COS [(C+D)/2].COS[(C-D)/2]
- none

Question

- 2cos2A
- 2sin2A
- 2tan2A
- none

Question

- 5
- 3

2

Find the area of triangle whose vertices are (4,4), (3, -2)and(-3,16).

27 sq.unit

26 sq.unit

30 sq.unit

none

If the determinant of the matrix A is zero than matrix A is called --------

non singular

zero

singular

none

A diagonal matrix whose each diagonal element is equal to one is called a .....

identity matrix

zero matrix

diagonal matrix

scalar matrix

- -2
- -3
- 4
- 1

Question

- Option 1
- Option 2
- Option 3
- NONE

Question

- Identity matrx
- scalar matrix
- null matrix
- none

Matrix obtained by changing rows and column is called .....

- zero matrix
- transpose of matrix
- diagonal matrix
- none

The matrix in which all principal diagonal elements are same and rest elements is zero then

- cofactor matrix
- scalar matrix
- zero matrix
- coloumn matrix

Question

- A = -1 andB= -1
- A = 2 and B = 1
- A = 1 and B=1
- A = 1 and B= -1

- improper fraction
- proper fraction
- normal fraction
- partial fraction

Find the equation of the line passing through (2,3) and having slope 5 units *

- x-y-7=0
- 5x+y=4
- 5x-y-9=0
- 5x-y-7=0

Find k if the lines 4y+3kx+5=0 and 5kx-3y+6=0 are perpendicular to each other

- 2/3
- 3/2
- 4/3
- none

Find the x and y intercepts of a line 2x+3y=6

- x=3 , y=2
- x=1 ,y=4

- none

Find the length of perpendicular from (3,4) to the line 3x+4y=7

- 18/5
- 5/18
- 9/5
- none

Find the distance between two parallel lines 3x+4y-7=0,6x+8y-5=0

- 8/9
- 9/10
- 10/9
- none

Find area of rhombus whose diagonals are of length 10 cm and 8.2 cm

- 43 sq.cm
- 42 sq.cm.
- 41 sq cm
- 40 sq.cm
- Other

The length , breadth and height of a cuboid are 8 cm,11 cm and 15 cm respectively, then total

- 800 sq.cm
- 648sq.cm
- 700 sq.cm
- 746sq.cm

The length of one side of the rectangle is twice the length of its adjacent side. If the perimeter

- 100 sq.cm
- 150 sq.cm
- 200 sq.cm
- none

The volume of cube is 1000 cm .Find its total surface area.

- 500 sq.cm
- 700 sq.cm
- 600 sq.cm
- none

The volume of a sphere is 88/21cubic meters. Find its surface area

-

- 3π sq m
- none

Find the range and coefficient of range of the data: 50 , 90 , 120 , 40 , 180 , 200 , 80.

- range=145and c.r=0.800
- range=150 and c.r =0.776
- range=160andc.r.=0.667
- none

If mean is 82.5 and standard deviation is 7.3, find the coefficient of variance

- 8.900
- 8.888
- 8.848
- 8.001

If coefficient of variation of a distribution is 75 and standard deviation is 24, find its mean

- 32
- 30
- 35

Calculate mean of the following data 1, 2,3,4,5,6,,8,9,10

- 4.44
- 4.111
- 3.99
- 2.88

Question

- Factory A
- Factory B
- Factory A and B both
- none

Coefficient of variance is given by.....

- Option 1
- Option 2
- option3
- none

Mean deviation is define as.....

- Option 1
- Option 2
- Option 3
- none

Which of the following can not be determined graphically?

- median
- mode
- mean
- one