Code No. : B-410(A)

Roll No.....

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Total No. of Printed Pages: 04

Total No. of Section

Q.3 Prove that:

OR

(4)

If $\sin A = \frac{3}{5}$, where , find the values of $\sin 2A$ and

Find the equation of a straight line which passes through the Q.4 and whose intercept on point axis is twice that on axis.

OR

Find the equation of the parabola whose focus is and the directrix is x + y = 4.

Q.5 The following table shows the weight of 12 students:

> Weight (in kg) 70 : 67

Number of students: 4

Find the mean weight by using short-cut method.

OR

Calculate the median from the following data:

Marks 10-30 30-60 60-80 80-90 : 0-10 No. of students: 5 15 30 8 2

----X----

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Annual Examination - 2017

BCA-I

BCA-107

BRIDGE COURSE

Max.Marks: 50

Time: 3 Hrs.

Min Marks: 17

Section 'A', containing 10 very short answer type questions, is Note: compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

Section-'A'

Very short answer type questions. Answer in one or two (1x10=10)

 $\frac{29004}{6} = \tan \frac{2}{2}$ $\sin \theta + \cos \theta$ $12 + \sin \theta + \cos \theta$

> Write the element of 2nd row and 3rd column of the given Q.2 matrix.

- Find the value of ⁹P₂. Q.3
- Write the series of e^{-x} . Q.4
- Q.5 If find the value of and

(2)

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(3)

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- Evaluate Q.6
- Write the slope of the straight line 3x-4y=12. Q.7
- Q.8 Write the equation of the circle whose centre and radius is and 2 respectively.
- If the heights of 5 persons are 144 cm, 152 cm, 151 cm, 158 Q.9 cm and 155 cm respectively. Find the mean height.
- Find the mode of the series: 0.10

Short answer type questions with word limit 150-200

(3x5=15)

Which term of the sequence: Q.1

OR

Find the sum of 7 terms of the

G.P. 3, 6, 12 --- .

If ${}^{12}P_{=}=1320$ then find the value of r. Q.2

OR

Prove that:

Find the value of Q.3

OR

Prove that:

Q.4 Find the value of x, if the distance between the points

> is 5. and

> > OR

Find the equation of straight line which makes an angle of

with the x-axis and cuts off an intercept of with

the axis.

Find the mean deviation from the mean for the following data: Q.5

OR

Find the mean of the following distribution:

x: 4 6 9 10 15f: 5 10 10 7 8

Section-'C' $22 \sin^2 \frac{1}{2} \cos^2 \frac{1}{2}$ Section-'C'

(5x5=25)

0.1 The sum of three numbers in A.P. is -3 and their product is 8. Find the numbers.

OR

The first term of a G.P. is 1. The sum of the third and fifth terms is 90. Find the common ratio of the G.P.

Q.2 If find r.

OR

Prove that: