**ANNUAL EXAMINATION 2020**

**(Only for Regular Students)**

***Centre No. 135 Centre Name- Disha College, Raipur (C.G.)***

**Class-BCA-I, II(New and old course), III Subject- Bridge Course**

**Paper Name- Bridge Course**

**Time- 3 hrs. Max M.-50 Min M.- 17**

**Note:-Attempt any two parts from each unit. All carry equal marks.**

**UNIT-I**

Q1 To resolve into partial fraction.

Q2 In an A.P. the sum of 30 terms is 1635. Its last term is 98,then find first term and common difference

Q3 Evaluate the determinant : A=

**UNIT-II**

Q1 Find the value of with the help of binomial theorem.

Q2

Q3 How many different words can be made by the word CHHATTISGARH ?

**UNIT-III**

Q1 If ,then find the values of sinθ and secθ.

Q2 Find the value of

Q3 The angle of elevation of the top of a tower of a point on the ground is .If on walking on 20 meters towards the tower ,the angle of elevation becomes ,then find the height of tower.

**UNIT-IV**

Q1 Find the locus of a point so that the join of (-5,1) and (3,2) subtends a right

angle at the moving point.

Q2 Find out the gradient of the line passing through the points, (3, -2) and (-6, -5).

Q3 Find the obtuse angle between the lines x – 2y + 3 = 0, 3x + y -1 = 0

**UNIT-V**

Q1 Calculate the arithmetic mean for the following table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Class Interval | 0-20 | 20-40 | 40-60 | 60-80 | 80-100 |
| Frequency | 2 | 7 | 10 | 3 | 3 |

Q2 The scores of batsman in ten innings are 38,70,48,34,42,55,63,46,54,44. Find the mean deviation about the median.

Q3 Find the variance and standard deviation for the following data:

65,68,58,44,48,45,60,62,60,50

**---000---**