Vidya Vikas Mandal's Ramacrisna Madeva Salgaonkar Higher Secondary School

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| | | First Term Exam, Oct - 2022 Sub: Mathematics (Voc) | | Time:1hr Marks:20 |
|-----|---|--|--------------------|-------------------------|
| Q | uestion number 1 to | o 10 carries 1 mark | c each. | |
| 1. | Loga 1 is | | | |
| | a. 1 | b. 0 | c1 | d. a |
| 2. | Point A=(3,-4) lies | | | |
| | a. First | b. Second | c. Third | d. Fourth |
| 3. | Log ₇ 7 = | | | |
| | a. 0 | b. 7 | c. 1 | d. 14 |
| 4. | 4. Trigonometric ratio of Sin ° is 1. | | | |
| | a. 0 | b. 45 | c.90 | d.180 |
| 5. | The point of inters | ection of all three | angle bisectors of | a Triangle is called as |
| | a. Centroid | h Mid-Point | cIncentor | d Circumcenter |
| 6. | a. Centroid b.Mid-Point c.Incenter d.Circumcenter Trigonometric ratio of Cos 180° = | | | |
| 0. | | c.1 | d Not Defined | |
| 7. | Convert 270° into | | a.Not Defined | |
| | If P=(8,-2) and Q=(8,6) then find Distance of PQ. | | | |
| | Convert $(4\pi/3)^{\circ}$ int | | | |
| 10. | How do we check | if three points are | collinear? | |

Question number 11 to 15 carries 2 mark each.

- 11. The sum of the two angles is 100° and the difference is $2\pi/9^c$,find the angles in degrees.
- 12. Find the value of log₇ ₹343
- 13. Find the coordinates o the point P which divides Seg AB externally in the ratio 3:5, where A=(2,-5) and B=(-3,-7)
- 14. Find the centroid of the triangle with vertices (4,-5), (6,2) and (8,9)
- 15. Find the mid-point of the two points A=(7,7) and B=(14,14)