

- Q13. Show that the line segments joining the mid points of the opposite sides of a quadrilateral bisect each other.
- Q14. In a triangle ABC, E is the mid-point of median AD. Show that at BED = 1.4 ar (ABC)
- Q15. In this given fig, if a line intersects two concentric circles with center O at A, B, C and D, Prove that AB = CD



Q16. The height of a cone is 16cm and its base diameters is 24cm. Find the curved surface area of the cone (use $\pi = 3.14$)

Q17. The capacity of a closed cylindrical vessel of height 1m is 15.4 liters. How many solare meters of metal sheet would be needed to make it?

Q18. If the mean of the observations x, x+3, x+5, x+7, x+10, y, and the mean of the last three observation.

Q19. The value of π up to 35 decimal flace is given below 3.141592653589795334 264338327950285 Make a frequency distribution of the toget is on 0 to 9 after the decimal point.

Q20. The blood groups of 20 students of a class are recorded as below

B, A, B, O, AB, O, A, AB, O, B, B, AB, AB, O, A, O, A, B, AB and O.

A student is selected at random. Find the probability that his blood group is

(i) A (ii) B (iii) AB

(iv) O

SECTION – D

Q21. Draw the graph of the equation 5x - 2y = 10.

Q22. The taxi fare in a city is as follows:- For the first kilometer, the fare is Rs20 and for the subsequent distance it is Rs.6 per km. taking x km as the distance covered and y as the total fare, write a linear equation for this information.

