



17. The diameter of the bullock cart wheel is 1.4m. Find the distance covered by it in 150 rotations.
18. Find the area of the dining table whose diameter is 105cm.
19. Which is greater  $3^4$  or  $4^3$ ?
20. Simplify :  $\frac{2^8 \times 3^5 \times 5^4}{3^3 \times 5^3 \times 2^4}$ .
21. If  $a = 3$  and  $b = 2$  find the value of  $a^b + b^a$ .
22. Find the unit digit of the numeric expression of  $10000^{10000} + 11111^{11111}$ .
23.  $6^2 \times 6^m = 6^5$  find the value of 'm'.

### PART - C

IV Answer any five questions.

$$5 \times 3 = 15$$

24. Write each of the following as decimal numbers.

i)  $900 + 50 + 6 + \frac{3}{100}$       ii)  $\frac{6}{10} + \frac{3}{100} + \frac{1}{1000}$

25. Megala and Mala bought two watermelons weighing 13.523 kg and 13.52 kg which is a heavier one?
26. Arrange in ascending order. 123.45, 123.54, 125.43, 125.34, 125.3.
27. The radius of a tractor wheel is 77cm. Calculate the distance covered by it in 35 rotations? ( $\pi = \frac{22}{7}$ ).
28. A rose garden is in the form of circle of radius 63m. The gardener wants to fence it at the rate of Rs. 150 per metre. Find the cost of fencing?
29. A Kho - Kho ground has dimensions 30m X 19m which includes a lobby on all of its sides. The dimensions of the playing area is 27m X 16m. Find the area of the lobby.
30. Simplify and find the degree of  $9a^4 - 6a^3 - 6a^4 - 3a^2 + 7a^3 + 5a^2$ .

### PART - D

V Answer any one of the following.

$$1 \times 5 = 5$$

31. Draw a triangle XYZ given that XY = 6 cm, YZ = 5.5 cm and ZX = 5 cm.

32. Construct a triangle ABC given that AB = 7cm, AC = 6.5cm  $\angle A = 120^\circ$ .