

CLASS – IX

SUBJECT – MATHS

| Q. 1 The value of $	au$ | t is | | | | |
|---|--------------------|----------------------|---|--|--|
| (a) 3.24 | (b) |) 3.242 | (c) 3.15 | (d) 3.14159265 | |
| Q. 2 Between two irrational numbers $\sqrt{2}$ and $\sqrt{3}$, there be | | | | | |
| (a) No irrational number | | | (b) No rational number | | |
| (c) Infinite irrational number | | | (d) only one irrational number. | | |
| Q. 3 To determine a line, the number of points required is | | | | | |
| (a) 1 | (b) 2 | (c) 3 | (d) Infinite. | | |
| Q. 4 If the sides o equal to | f a triangle ar | e produced in | order, then the sum of t | the exterior angles so formed is | |
| (a) 90 ⁰ | (b |) 180 ⁰ | (c) 270 ⁰ | (d) 360 ⁰ | |
| Q. 5 If $\sqrt{3} = 1.732$ and $\sqrt{2} = 1.414$ the value of $\frac{1}{\sqrt{3} - \sqrt{2}}$ is | | | | | |
| a. 0.318 | (b) |) 3.146 | (c) 1/ 3.146 | $(d)\sqrt{1.732} - \sqrt{1.414}$ | |
| Q. 6 The expansion | n of (a – 2b – 3 | c) ² is – | | | |
| (a) $a^2 + 2b^2 + 3c^2 + 4ab + 12bc + 6ac$ | | | (b) $a^2 + 4b^2 + 9c^2 + 2ab + 2bc + 2ca$ | | |
| (c) $a^2 - 4b^2 - 9c^2 - 4ab + 12bc - 6ac$ | | | (d) $a^2 + 4b^2 + 9$ | (d) $a^2 + 4b^2 + 9c^2 - 4ab + 12bc - 6ac$ | |
| Q. 7 Divide ($\sqrt{3} + \sqrt{2}$ Q. 8 In fig (4) AB = 120°. Find x | CD, <u>/</u> APQ = | | ÷* | $p \rightarrow 0$ | |
| Q. 9 In fig (5) ABC AB = CD and A BC = DC. | | | | | |
| Q. 10 In fig (6) ABC AB = AD and A BC = DC. | | | | | |

Q. 11 The angles of a quadrilateral are in the ratio 3:4:5:6. Find al the angles of the quadrilateral.

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- Q. 12 Factorize : $(x y)^3 + (y z)^3 + (z x)^3$
- Q. 13 Write $(2x 3y 4z)^2$ in expanded form.
- Q. 14 In a \triangle ABC, $\angle A + \angle B = 100^{\circ}$, and $\angle B + \angle C = 140^{\circ}$. Find the measure of each of the angles of the triangle.
- Q. 15 If x + y + z = 0 show that $x^3 + y^3 + z^3 = 3xyz$.

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