GOVERNMENT HIGH SCHOOL NEELSANDRA

PRACTICE PAPER CUM OMR SHEET KSQAAC

SUBJECT: MATHEMATICS CLASS : 9 TIME:

1. A number 's' is called irrational, if it cannot be written in the form of ---------- where p and q are integers and q ≠ 0

A] $\frac{p}{q}$ **B]** $\frac{q}{p}$ **C] p = q D] p – q**

2. The degree of a non – zero polynomial is -----

A] 0 B] 1 C] ±1 D] 2

3. If in a quadrilateral, each pair of opposite angles is equal, then it is a ----------

A] parallelogram B] Trapezium C] Square D] Rhombus

4. Two triangles are congruent if any two pairs of angles and one pair of corresponding sides Are equal.we may call it as –

A] AAS Congruence Rule B] ASA Congruence Rule C] SAS Congruence Rule D] SSS Congruence Rule

5. Show that 3.142678 is a rational number. In other words, express 3.142678 in the form $\frac{p}{q}$ **, where p and q are integers and q = 0**

A. $\frac{3.142678}{1000000}$ **B.** $\frac{3.142678}{10000}$ **C.** $\frac{3.142678}{100}$ **D.** $\frac{3.142678}{10}$

. 6. Find the value of k, if x – 1 is a factor of $4x^2 - 3x + k$

A. −1 B. −2 C. −3 D. −4

7. What is the name of horizontal and the vertical lines drawn to determine the position of any point in the Cartesian plane.

A. x – axis and y – axis B. y – axis C. x – axis D. None

. 8. : A ---------- has four sides, four angles and four vertices.

A. Parallelogram B. Square C. Quadrilateral D. All

. 9. 10. Write the following in decimal form and say what kind of decimal expansion $\frac{36}{100}$

A. 0.36 , terminating **B. 3.6 terminating** **C. 36 terminating** **D. 360**

. 10. Simplify : ($\sqrt{11} - \sqrt{7}$) ($\sqrt{11} + \sqrt{7}$)

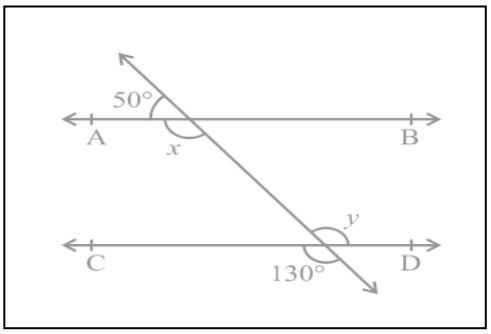
A. 4 **B. 5** **C. 6** **D. 7**

. 11. the degree of the polynomial: $2 - y^2 - y^3 + 2y^8$

A. 8 **B. 3** **C. 2** **D. 0**

. 12. The numbers whose decimal expansion are non-terminating non – recurring is

A. 7.3141141114 **B. 5.777777** **C. None** **D. All**



. 13. A circle can be drawn with any centre and any radius it is Postulate No .

A. 3 **B. 4** **C. 2** **D. 1**

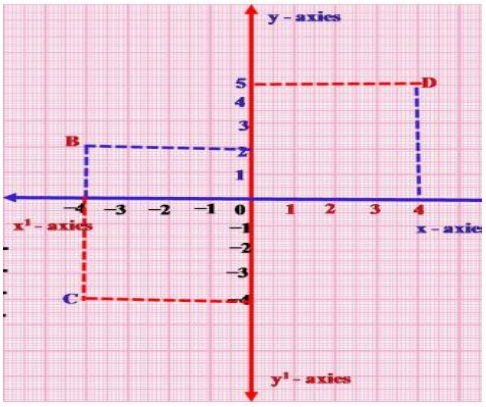
14. . *In the fig find the values of x and y is*

A. 130 **B. 180** **C. 50** **D. 80**

15. *You know that* $\frac{1}{7} = 0.\overrightarrow{142857}$ *can you predict what the decimal expansion of* $\frac{2}{7}$ *is*

A. $0.\overrightarrow{285714}$ **B. = =** $0.\overrightarrow{385714}$ **C. =** $1 \times \frac{1}{7} = 0.\overrightarrow{142857}$ **D.** $0.\overrightarrow{142857}$

16. See the figure choose :the co-ordinates of B



A. (− 4 , 2) **B. (4 , 2)** **C. (2, − 4)** **D. (− 4 , 4)**

17. *P(x) = $2x^2 - x + 6$ is divided by g(x) = $x + 1$*

A. 9 **B. 3** **C. − 9** **D. − 3**

18. If we expand $(999)^3$ the answer will be

A. *1124864* **B. *1214864*** **C. *2124864*** **D. *1142864***

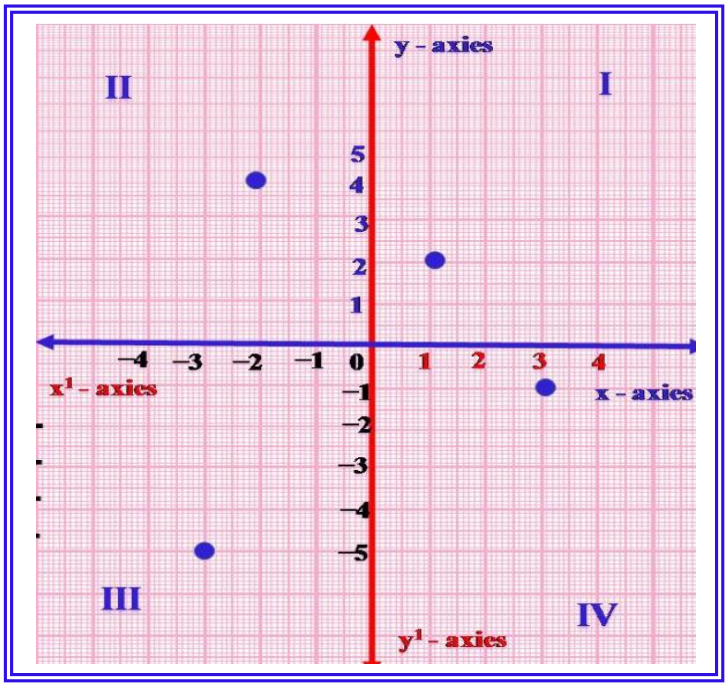
[2 marks each 6 questions 2 x 6 = 12]

19. *Divide the polynomial P(x) = $x^3 + 4x^2 - 5x + 6$ is divided by g(x) = $x + 1$ then the remainder will be*

A. 14 **B. 11** **C. −11** **D. −14 [space for calculations]**

20. ***If we rationalise the denominator*** $\frac{1}{\sqrt{7}-\sqrt{6}}$ ***then the answer will be***

A. $\sqrt{7}-\sqrt{6}$ **B.** $\sqrt{7}+\sqrt{6}$ **C.** $2\sqrt{7}-3\sqrt{6}$ **D.** $2\sqrt{7}-3\sqrt{6}$



21. In the gi ven Cartesian plane.

(- 2 , 4), (3, - 1) (- 1 , 0) (1, 2)lie in which quadrant ?

A.

2nd quadrant
4th quadrant
1st quadrant
4th quadrant

B.

1nd quadrant
2th quadrant
3st quadrant
4th quadrant

C.

2nd quadrant
3th quadrant
1st quadrant
4th quadrant

D.

2nd quadrant
4th quadrant
3st quadrant
4th quadrant

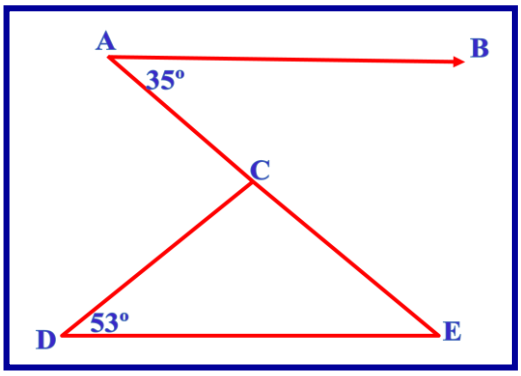
22. ***If we*** **factorize:** $x^3 - 23x^2 + 142x - 120$. **Then the roots will be [for working]**

A. $(x-1)(x-10)(x-12)$ **B.** $(x-1)(x-11)(x-12)$

C. $(x-9)(x-10)(x-11)$ **D.** $(x-1)(x-10)(x-13)$

23. In the figure if AB ‖ DE , ∠ BAC = 35º and , ∠ CDE = 53º

Then ∠DCE is



A. 92º B. 93º C. 94º D. 95º [for working]

24. The angles of a quadrilateral are in the ratio of 3: 5 : 9 : 13 .

Then the angles of quadrilateral are

A. . 36º B. 60º C. 108º D. 156º

[for working]