SA-1 EXAM For 7th STANDARD

Time : 60 min | **MATHEMATICS** | Marks : 30

I. Four Options are given below for each question. Choose the correct one and decode it in the OMR sheet. ***18 X 1 = 18***

1. The example for commutative property of integers under addition

a) 2+3 = 3+2 b) (2+3)+4 = 2+(3+4) c) 5+0 = 0 d) 2(3+4) = (2×3)+(2×4)

2. (−40) + (−10) =

a) −40 b) 4 c) −4 d) 40

3. The reduced form of $\frac{18}{30}$

a) $\frac{9}{15}$ b) $\frac{18}{30}$ c) $\frac{3}{5}$ d) $\frac{6}{10}$

4. $\frac{7}{8} \times \frac{3}{4} =$

a) $\frac{21}{32}$ b) $\frac{10}{12}$ c) $\frac{21}{2}$ d) $\frac{73}{84}$

5. Additive inverse of $\frac{9}{4}$

a) $\frac{9}{4}$ b) $\frac{4}{9}$ c) $\frac{-4}{9}$ d) $\frac{-9}{4}$

6. The equivalent rational number of $\frac{-2}{9}$

a) $\frac{-4}{18}$ b) $\frac{-6}{27}$ c) $\frac{-8}{36}$ d) All of these

7. The decimal form of $\frac{3}{8}$

a) 0.325 b) 0.375 c) 0.345 d) 0.365

8. The degree of the polynomial $a^2 + 2ab + abc$

a) 2 b) 1 c) 3 d) 4

9. Which of the following is not a polynomial

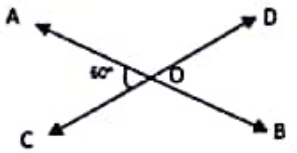
a) $x + 2yq$ b) $x^3 + x - 2$ c) $y^2 + y^{\frac{1}{2}} - 6$ d) $2m^2 + 3m - 4$

10. The sum of $(13a - 4b)$ and $(4a - 6b)$

a) $-17a + 10b$ b) $17a + 10b$ c) $-17a - 10b$ d) $17a - 10b$

11. The complement of the angle 35° is

a) 90° b) 55° c) 65° d) 145°

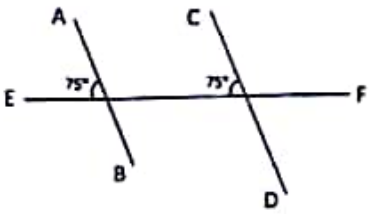


12. In the figure if $\angle AOC = 60°$, then $\angle BOD$ is

a) 60° b) 120° c) 180° d) 90°

13. In the figure the relation between $\overline{AB}$ and $\overline{CD}$ is

a) AB∥CD b) AB = CD c) AB∦CD d) None of these



14. If a transversal is drawn to a pair of parallel lines, then the pair of consecutive interior angles are

a) Always equal b) Supplementary c) Complementary d) Linear pair

15. The sum of three interior angles of a triangle is

a) 90° b) 360° c) 60° d) 180°

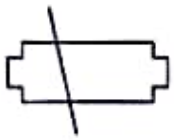
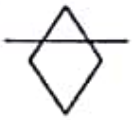
16. Which of the following measures does not represent a sides of triangle

a) 3cm,4cm,5cm b) 2cm,6cm,6cm c) 3cm,2cm,6cm d) 6cm,5cm,9cm

17. The number of lines of symmetry can be drawn in a square

a) 2 b) 4 c) 8 d) Infinity

18. Which of the following figure has correct line of symmetry

a)  b)  c)  d) 

II. Four Options are given below for each question. Choose the correct one and decode it in the OMR sheet. ***6 X 2 = 12***

19. If the cost of a pen is □8 and cost of a pencil is □5, the total cost of a dozen pens and half a dozen pencils is

a) □96 b) □126 c) □30 d) □100

20. Area of a rectangular metal sheet having length $3\frac{1}{2}m$ and breadth $2\frac{1}{2}m$ is

a) $17\frac{1}{2}\ sq.m$ b) $7\frac{1}{2}\ sq.m$ c) $6\frac{1}{2}\ sq.m$ d) $12\frac{1}{2}\ sq.m$

21. The sum of $\frac{-3}{5}+\frac{5}{6}$ is

a) $\frac{8}{11}$ b) $\frac{2}{11}$ c) $\frac{43}{30}$ d) $\frac{7}{30}$

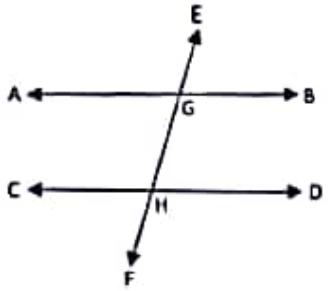
22. The product of $(3a-b)(2a+b)$ is

a) $6a^2+ab-b^2$ b) $6a^2+5ab-b^2$ c) $6a^2-ab+b^2$ d) $6a^2-2ab+b^2$

23. In the figure the pair of alternate angles is

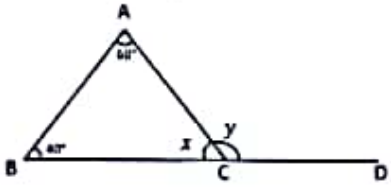
a) ∠AGE and ∠EGB b) ∠BGH and ∠GHC

c) ∠AGH and ∠CHF d) ∠GHC and ∠DHF



24. The values of x and y in the figure are

a) 100°, 80° b) 60°, 40° c) 40°, 60° d) 80°, 100°



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