

DAV PUBLIC SCHOOL, POKHARIPUT, BHUBANESWAR
ANNUAL EXAMINATION 2020-21
CLASS-VI SUBJECT:-MATHEMATICS (OBJECTIVE)
TIME:40 MIN MAXIMUM MARKS:40

General Instructions:

- All questions are compulsory.
- The question paper contains 40 questions and 2 sections A and B.
- Choose the answers correctly
- Check your answers thoroughly before submitting.

A) State whether true or false. (1 x 10=10)

1. Converting 2.6 % as decimal, we will get 0.026 .
2. The equations $x + 1 = 0$ and $5x = -5$ have the same solution.
3. The equation for “ 3 subtracted from two times of z “ is $3-2z$.
4. If the diameter is 6.8 cm then the radius will be 2.4 cm.
5. We can construct a triangle with sides of measures 5cm , 3cm and 8 cm.
6. Side opposite to $\angle E$ in $\triangle EFG$ is side FG.
7. Riti wants to fence the playground. For this, she must find the perimeter of the playground .
8. The ratio of one dozen to one score is 2:5
9. Number of diagonals in a pentagon is 10.
10. The number of acute angles in obtuse triangle is 2.

B) Choose the correct answer from the given options (1 X 30=30)

11. A shopkeeper sold 500 kg of wheat . The total (actual) cost price of 500 kg of wheat is _____ if 1 kg of wheat costs Rs. 45 and overhead charges is Rs. 1000.

(A) Rs. 23500

(B) Rs. 22500

(C) Rs. 21500

(D) None

option a

12. Referring to Q11, the profit made by the shopkeeper is _____ if he sold the total wheat at profit percentage of 11%.

(A) Rs. 2385

(B) Rs. 2585

(C) Rs. 2855

(D) none

option b

13. Rishav wants to construct the house on a rectangular plot and also fence the plot and polish the floor of the house. The area of the rectangular plot is 28500 sq.cm. If its breadth is 150 cm, then the measure of the length is _____

(A) 170 cm

(B) 180 cm

(C) 190 cm

(D) None

Option c

14. Referring to previous question, the perimeter of the rectangular plot is _____ cm.

(A) 570

(B) 580

(C) 680

(D) 740

Option c

15. Referring to Q NO. 13, the cost of polishing the floor at Rs. 30 sq.cm is _____.

(A) Rs. 655000

(B) Rs. 755000

(C) Rs. 845000

(D)Rs. 855000

Option d

16. Which of the statements are incorrect?

(I) If $P = 0$ and $q = (-1)$, the value of $3p - q = -1$

(II) The age of Reena was $(x-3)$ years before 3 years. So, she is x years now.

(III) The cost of 7 pens is Rs. $7x$ if the cost of one pen is Rs. x

(IV) The sum of $3x$ and 0 is 0 .

(A) Only (IV)

(B) (I) and (IV)

(C) (II) and (III)

(D) Only (I)

Option b

17. Which of the following is/are true?

(I) The line segment which has its end points on the circle but does not pass through centre is called chord.

(II) Measure of radius is twice of diameter.

(III) We can draw infinite diameters of a circle.

(IV) Half of a circle is called semi circle.

(A) (I), (III), (IV)

(B) (I) and (III)

(C) Only (II)

(D) All are true

Option a

18. A wire is in the shape of a rectangle of length 6 cm and breadth 4 cm, which is bent to form a circle. The circumference of the circle is _____

- (A) 9 cm
- (B) 10 cm
- (C) 20 cm
- (D) 24 cm

Option c

19. In a pack of 700 apples, 15% are found rotten. The number of apples which are not rotten is Rs. _____ .

- (A) 105
- (B) 395
- (C) 585
- (D) 595

Option d

20. If S.P of an article is double the C.P, then the profit percent is _____ .

- (A) 50 %
- (B) 75%
- (C) 100%
- (D) 150%

Option c

21. The inverse operation which will undo the operation “dividing by -10” is _____ .

- (A) Adding 10 to it
- (B) Subtracting -10 from it
- (C) multiplying by -10
- (D) multiplying by 10

Option c

22. Which of the following equations does not have a solution in integers?

- (A) $x + 1 = 0$
- (B) $x - 0 = 3$
- (C) $2x = 1$
- (D) $-x = 5$

Option c

23. 15% of 2 km is _____

(A) 300 m

(B) 30 m

(c) 3.5 m

(d) None

Option a

24. A worker spends Rs. X daily and saves y per week. His daily income is Rs. _____.

(A) $X + (y/7)$

(B) $7x + y$

(C) $X + y$

(D) $X + 7y$

Option a

25. Leena had Rs 500. She spent Rs x to buy a book and Rs. m to buy a tiffin box. Money left with her is Rs. _____

(a) $500 - x - m$

(b) $x - m$

(c) $500 + m - x$

(d) $x - m$

Option a

26. Subtract $7x + 2y - xy$ from 0, we get _____

(A) $7x + 2y - xy$

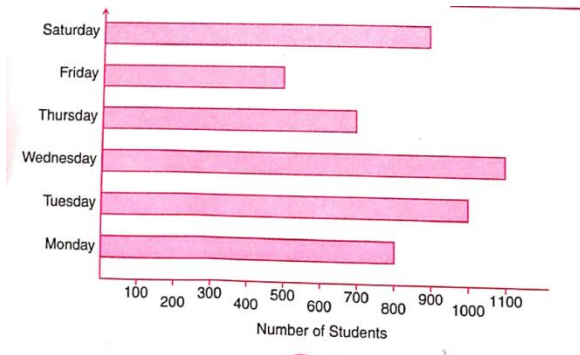
(B) $xy - 7x - 2y$

(C) $7x - 2y + xy$

(D) $-7x - 2y - xy$

Option b

27. This bar graph shows the number of students present in different days



From the graph, find total number of students present on Monday and Tuesday.

(A) 1700

(B) 1800

(C) 1900

(D) 200

OPTION B

28. Referring to Q27, On which day maximum number of students were present?

(A) Friday

(B) Tuesday

(C) Wednesday

(D) Saturday

Option c

29. The Complement of 65° is _____

(A) 15°

(B) 25°

(C) 105°

(D) 115°

Option b

30. In $\triangle ABC$, $\angle A = 30^\circ$, $\angle B = 60^\circ$. The $\triangle ABC$ is _____ type of \triangle .

(A) Acute angled triangle

(B) Isosceles triangle

(C) Obtuse angled triangle

(D) Right angled triangle

Option d

31. In triangle ABC, side BC is extended to point D. Name the interior adjacent angle to the exterior angle formed at C. _____

(A) angle ABC

(B) angle ADC

(C) angle BAC

(D) angle ACB

Option d

32 The side of a square is 10cm. If the side of the square is doubled, then the new area will become _____ times of the original area .

(A) 2 times

(B) 4 times

(C) 6 times

(D) 8 times

Option b

33. The Perimeter of regular hexagon if the length of each side is 6cm is _____

(A) 36 cm

(B) 48 cm

(C) 24 cm

(D) 30cm

Option a

34. Parmindar walks around a square park once and covers 800 cm. The length of each side of this park is _____.

(A) 200cm

(B) 400 cm

(c) 450 cm

(D) 800 cm

Option a

35. The angle which cannot be constructed using ruler and compasses is _____

(A) 30

(B) 45

(C) 70

(D) 75

Option c

36. Which of the following ratios is greatest?

(A) 3:4

(B) 4:7

(C) 7:1

(D) 4:3

Option c

37. Numerical coefficient in the term $-5ab$ is _____

(A) 5

(B) -5

(C) $5a$

(D) $5b$

38. The S.P of a radio is Rs.5900 and it was sold for a loss of Rs.100. The selling price is Rs. _____

(A) 5800

(B) 6000

(C) 6100

(D) none

39. _____ is the solution of the equation $-5+y = 7$.

(A) -2

(B) 2

(C) 12

(D) -12

Option c

40. $1\text{sqm} = \text{_____ sqcm}$.

(A) 100

(B) 1000

(C) 10000

(D) None

Option c

DAV PUBLIC SCHOOL, POKHARIPUT, BHUBANESWAR
ANNUAL EXAMINATION 2020-21
CLASS-VI SUBJECT:-MATHEMATICS (SUBJECTIVE)
TIME: 1 hr 30 min MAXIMUM MARKS:40

General Instructions:

- All questions are compulsory.
- The question paper contains 17 questions and 2 sections A and B.
- Section A contains questions of 1 mark and section B contains questions of 2 marks.
- Check your answers thoroughly before submitting.

SECTION A: (2 X 11=22)

Q1. Rashmi prepared 18 kg of barfi by mixing khoya with sugar in the ratio of 7:2 respectively. How much khoya did she use?

Q2. Construct a line segment $PQ = AB + CD$, where measures of $AB = 3.5$ cm and $CD = 4.2$ cm.

Q3. Area of the square = 64 sq.m. Find the measure of the side of the square.

Q4. Solve: $4x - 5 = 10 - 5x$

Q5. Find two consecutive numbers whose sum is 81.

Q6. Write the equations: a) One-fifth of a number subtracted from 60 gives 8. (b) twice of z divided by 3 gives 20.

Q7. Rajiv present age is ' y ' years. His mother is 4 years younger than father. But his father is 3 times Rajiv's age. What is his mother's age?

Q8. Draw a circle having longest chord of 6.4 cm.

Q9. What will be the width of the circular track with outer diameter is 23 cm and inner diameter is 13 cm?

Q10. A boat is sailing S-W. A little later it turns anti-clockwise and is formed sailing towards north. Through what angle (in degree) has it turned?

Q11. Points A, B, C, D are four points. Join them in pairs. How many triangles are formed? .A .B

.C .D

SECTION B : (3 X 6=18)

Q12. Construct angle 75 degrees using compasses.

Q13. Draw a line PQ. Take a point R on it. Draw a line RS perpendicular to PQ using compasses and ruler.

Q14. In the annual examination, Gita scored 39 marks out of 60 in English and 51 out of 75 in Hindi. In which subject her performance was better?

Q15. Find the amount on a sum of Rs.9600 for 3 months at the rate of 5% per annum.

Q16. Boney wants to cover the floor of the room 3m wide and 4 m long by squared tiles. If each square tile is of side 0.5m, then find the number of tiles required to cover the floor of the room?

Q17. Using the given information prepare a bar graph to show the no. of students in different clubs in a school.

Club	No. of students
Eco club	65
Literary club	80
Art & craft club	45
