

ಕರ್ನಾಟಕ ಶಾಲಾ ಪರೀಕ್ಷೆ ಮತ್ತು ಮೌಲ್ಯನಿರ್ಣಯ ಮಂಡಲ

ಕೆಎಸ್‌ಕೆಎವಿಸಿ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು-560003.

KARNATAKA SCHOOL EXAMINATION AND ASSESSMENT BOARD

KSQAAC, Malleshwaram, Bengaluru-560003.

ಮೌಲ್ಯಾಂಕನ - ಮಾರ್ಚ್ 2024 ಮಾದರಿ ಪ್ರಶ್ನೋತ್ತರ ಪತ್ರಿಕೆ

Assessment - March 2024 Model Question Paper

Class : 8

Subject : Mathematics

Marks : 50

Time : 2 Hours 30 Min

Information to be filled by the Student

Name of the Student : \_\_\_\_\_

Student SATS No :

Signature  
of the Student : \_\_\_\_\_

Information to be filled by the Room Invigilator

School DISE Code :

School Name : \_\_\_\_\_

Cluster : \_\_\_\_\_ Block : \_\_\_\_\_ District : \_\_\_\_\_

School Type : Govt.  Aided  Un-aided

(Put "✓" mark for applicable information)

Signature of the Room Invigilator : \_\_\_\_\_

Information to be filled by the Evaluator at the time of evaluation

Question Number	Obtained marks	Question Number	Obtained marks	Question Number	Obtained marks
1		11		21	
2		12		22	
3		13		23	
4		14		24	
5		15		25	
6		16		26	
7		17		27	
8		18		28	
9		19		29	
10		20		30	
-		-		31	
Total marks		Total marks		Total marks	
				Grand Total	

Total marks obtained (in words) : \_\_\_\_\_

Signature of the Evaluator : \_\_\_\_\_

- I. Four alternatives are given for each of the following questions / incomplete statements. Choose the appropriate one and write along with the alphabets.

16 x 1 = 16

1. The rational number that does not have a reciprocal is

- A. -1                      B. 0                      C.  $\frac{3}{5}$                       D. 1

Answer:  \_\_\_\_\_

2. The operation that is not closed for rational numbers is

- A. Addition                      B. Subtraction  
C. Multiplication                      D. Division

Answer:  \_\_\_\_\_

3. Unit digit of the square of 169 is

- A. 1                      B. 3                      C. 6                      D. 9

Answer:  \_\_\_\_\_

4. A linear equation in one variable among the following is

- A.  $x^2 + 2x = 8$                       B.  $x + x^3 = -6$   
C.  $\frac{5}{3}x + \frac{7}{5} = \frac{2}{7}$                       D.  $\frac{5}{x} + \frac{x}{3} = \frac{5}{7}$

Answer:  \_\_\_\_\_

5. One of the like term of  $7xy$  is

A.  $-\frac{2}{3}xy$

B.  $7 + x + y$

C.  $-7x + y$

D.  $7 + xy$

Answer:  \_\_\_\_\_

6. If  $x$  and  $y$  are in direct proportion, then for some non-zero real constant  $k$ ,

A.  $xy = k$

B.  $x + y = k$

C.  $\frac{x}{y} = k$

D.  $x - y = k$

Answer:  \_\_\_\_\_

7. One or more outcomes of a random experiment make

A. an experiment

B. chance

C. a trial

D. an event

Answer:  \_\_\_\_\_

8. A nine sided polygon is called

A. heptagon

B. nonagon

C. octagon

D. decagon

Answer:  \_\_\_\_\_

9. With the usual notations, Euler's formula for a polyhedron is

A.  $F + E = V + 2$

B.  $F + E = V - 2$

C.  $F + V = E + 2$

D.  $F + V = E - 2$

Answer:  \_\_\_\_\_

10. Among these numbers, 108 is completely divisible by

A. 5

B. 11

C. 7

D. 9

Answer:  \_\_\_\_\_

11. Usual form of  $100 \times a + 10 \times c + b$  is

A.  $\overline{abc}$

B.  $\overline{acb}$

C.  $111\overline{abc}$

D.  $111\overline{acb}$

Answer:  \_\_\_\_\_

12. Perfect cube among the following is

A. 1728

B. 827

C. 888

D. 2700

Answer:  \_\_\_\_\_

13. Standard form (Scientific notation) of 0.000003 is

A.  $3 \times 10^6$

B.  $3 \times 10^{-6}$

C.  $3 \times 10^{-5}$

D.  $3 \times 10^5$

Answer:  \_\_\_\_\_

14. Percentage form of 3:4 is

A. 75%

B.  $\frac{3}{4}\%$

C. 34%

D. 12%

Answer:  \_\_\_\_\_

15. The data that changes continuously over periods of time can be displayed by

A. pictograph

B. bargraph

C. line graph

D. circle graph

Answer:  \_\_\_\_\_

16. A die marked with 1, 2, 3, 4, 5, 6 on its faces (one number on on face) is thrown once.  
The probability of getting the outcome '2' is

A. 1

B.  $\frac{1}{2}$

C.  $\frac{1}{3}$

D.  $\frac{1}{6}$

Answer:  \_\_\_\_\_

**II. Answer the following questions**

**4 x 1 = 4**

17. How many natural numbers lie between  $11^2$  and  $12^2$ ?

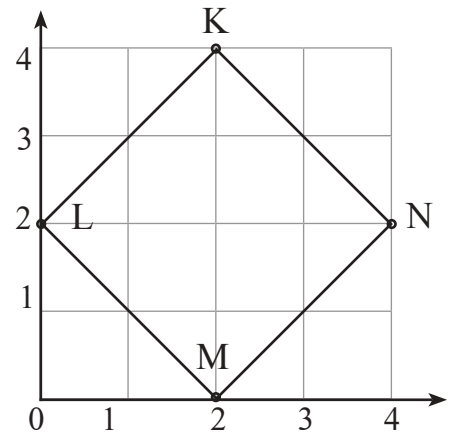
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18. Observe the adjacent figure and write,

- (i) Coordinates of point K
- (ii) Point whose coordinates are (2, 0)




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19. Write the formula used to find total surface area (in sq.units) of a cuboid, whose length, breadth and height are ' $l$ ' unit, ' $b$ ' unit and ' $h$ ' unit respectively.

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20. In the coordinate system, where does a point whose x-coordinate is zero and y-coordinate is non-zero lie?

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**III. Answer the following questions****6 x 2 = 12**

21. 24 years ago, ratio of ages of Rama and Shashi was 4:5. Now, this ration is 8:9. Find their ages 24 years ago.

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22. By prime factorisation method, find the cuberoot of 2744

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23. Subtract  $3 - 7x + 5x^2$  from  $7x^2 - 4x + 2$

24. Divide  $(5y^3 - 125y)$  by  $(y + 5)$  by factorising the expressions.



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25. Find the sum of the interior angles of a 10 sided convex polygon.

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26. 6 Identical pipes are required to fill a tank in 1 hour 20 minutes. How long will it take if only 5 pipes of same type are used?

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**IV. Answer the following questions****3 x 3 = 9**

27. Find the smallest perfect square number that is divisible by 6, 8 and 18.

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28. Suvarna purchased a watch for ₹1460. After few months, she spent ₹340 for its repair and sold it at a loss of 8 percent. Find its selling price and hence the loss incurred by her.

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29. Construct the quadrilateral FOUR with  $FO = 5.5\text{cm}$ ,  $OU = 4\text{cm}$ ,  $UR = 5\text{cm}$ ,  $RF = 4.5\text{cm}$  and  $OR = 6.5\text{cm}$ .



**VI. Answer the following question****1 x 5 = 5**

31. Shweta spends her time during a day for different activities as follows.

Activity	School	Home Work	Play	Sleep	Others
Time (in hours)	6	4	3	8	3

Draw a Pie chart for this data.

