

SUMMATIVE ASSESSMENT 1(2016-17)

CLASS VIII

MATHEMATICS (Set – B)

Time: 3 Hours

M.Marks: 90

General Instructions:

- All questions are compulsory.
- The question paper consists of 34 questions divided into four sections A.B.C.D. Section - A comprises of 8 questions of 1 mark each, Section -B comprises of 6 questions of 2 marks each, Section -C comprises of 10 questions of 3 marks each and Section D comprises of 10 questions of 4 marks each.
- Question numbers 1 to 8 in section A are multiple choice questions where iii) you are to select one correct option out of the given four.
- Use of calculator is not permitted. iv)

SECTION - A

0.0000064 expressed in standard form is

- a) 64 X 106
- b) 6.4 X 10 -6
- c) 6.4 X 10 -7
 - d) none of these

2. The sides of a quadrilateral having a common end point are called

- a) Diagonals
- b) Adjacent sides c) Opposite sides d) none of these
- 3. 0.5 % when expressed as a decimal is
 - a) 0.005
- b) 0.05
- c) 0.5
- d) none of these

4. If the present population of a place is P and it decreases at R % p.a. then, population after n years will be

- a) $P(1-\frac{R}{100})^n$ b) $\frac{P}{(1+\frac{R}{100})^n}$ c) $P(1+\frac{R}{100})^n$ d) none of these

5~0.9

- a) 0.3
- b) 0.03
- c) 0.33

d) none of these

6. Difference between Upper Limit and Lower Limit of a class interval is called

- a) Range
- b) Class Mark
- c) Class Size
- d) none of these

7. Discount is allowed on the

- a) Cost Price
- b) Selling Price
- c) Marked Price
- d) none of these

 $8. (0.05)^3 = ?$

- a) 12.5
- b) 0.125
- c) 0.00125
- d) none of these

SECTION : B

- 9. Evaluate: 1 32 X 3 250
- 10.a) A collection of observations gathered initially is called ______
 - b) The mid value of a Class Interval is called its _____
- 11. Write a Pythagorean triplet whose smallest member is 8.
- 12.After allowing a discount of 12 % on a toy, it is sold for Rs. 528. Find the Marked Price of the toy.
- 13.Find $8\frac{1}{3}\%$ of 24
- 14. Find the measure of each interior angle of a regular polygon having 8 sides.

SECTION : C

15. Construct a frequency distribution table for the following-

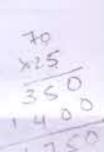
- b) Find the range of above data.
- 16.Divide (6 p2-13 p+6) by (3p-2).
- 17.Find the smallest number by which 8640 must be divided so that the quotient may be a perfect cube. Also, find the cube root of the number so obtained.
- 18. Prove that the sum of 4 angles of a quadrilateral is 360°.
- 19. Find the value of x if -

$$(2)^{3x+5} \div (2)^{-1} = 8$$

20.1f
$$x - \frac{1}{x} = 3$$
, find $x^2 + \frac{1}{x^2}$

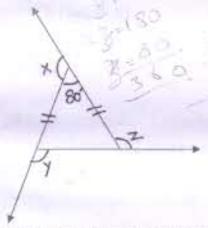
- 21. The monthly salary of a peon is Rs. 15625. If he gets an increase of 12 %, find his new salary.
- 22.Evaluate 10816 and then find the value of

- 23.A cycle was sold at a gain of 10%. Had it been sold for Rs. 70 more, the gain would have been 14 %. Find the C.P. of the cycle.
- 24.At what rate % p.a. will a sum of Rs. 3125 amount to Rs. 3645 in 2 years?



SECTION : D

- 25. Observe the given figure and find the value of
 - a) x, y, z
 - b) x + y + z



- 26. The simple interest on a certain sum of money for 3 years at 5% p.a. is Rs. 1200.

 What will be the Compound Interest on that sum at the same rate for the same period?
- 27.a) What % of 4 km is 160 metre?
 - b) What quantity is 30 % less than 2 litre?
- 28. The daily earnings (in Rs.) of 24 stores in a market was recorded as under-

Prepare a frequency table taking equal class sizes, one such class is 500 - 550 where 550 is not included

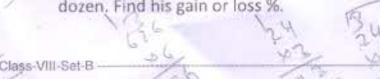
29. Solve using algebraic identities—

b)
$$(9x - 10)^2$$

- 30. The angles of a quadrilateral are in the ratio 1:2:3:9. Find the measure of each angle and tell the type of quadrilateral.
- 31.a) Find the product of $(2x + 3)(x^2-3x + 7)$
 - b) Subtract 2a-5b+2c-9 from 2c-5b+2a.
- 32. Find the greatest 5-digit perfect square.
- 33.Evaluate

b)
$$(\frac{-2}{3})^7 \div (\frac{-2}{3})^{10}$$

34.A vendor buys oranges at 20 for Rs. 56 and sells them at the rate of Rs. 35 per dozen. Find his gain or loss %.



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Page 1