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PRACTICE PAPER FOR SUMMATIVE ASSESSMENT – I

2014-2015

STD:- VIII

Sub: - Mathematics

Time:- 3 Hours

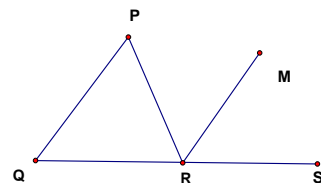
Marks:- 90

General Instructions:-

1. All questions are compulsory.
2. The question paper consists of 34 questions divided into 4 sections–A, B, C, D.
 - i) Section A comprises 8 questions of 1 mark each.
 - ii) Section B comprises 6 questions of 2 marks each.
 - iii) Section C comprises 10 questions of 3 marks each.
 - iv) Section D comprises 10 questions of 4 marks each.
3. Internal choice has been provided in some questions. You have to attempt only one of the alternatives in all such questions.

SECTION – 'A'

- 1) $\frac{\sqrt{25} + \sqrt{121}}{\sqrt{256}}$
(a) 2 (b) 3 (c) 1 (d) 4
- 2) A man sold an article for Rs. 495 thereby gaining $12\frac{1}{2}\%$ the cost price of the article was
(a) Rs 450 (b) Rs 448 (c) Rs 440 (d) Rs 430
- 3) What is the lost percent if a man loses Rs 10 on selling an article for Rs 100
(a) 8% (b) 9% (c) 10 % (d) 11 %
- 4) If $x^2+y^2 = 57$, $xy = 16$ and $x > y$ then $(x-y)$ is equal to
(a) 3 (b) 4 (c) 5 (d) 6
- 5) In given figure $PQ \parallel RM$ and if $\angle P = 70^\circ$ $\angle MRS = 30^\circ$ if then measure of $\angle PRQ = \dots$
(a) 80° (b) 45° (c) 55° (d) 70°



- 6) In which of the following quadrants does the point (4,-3) lie?
 (a) I (b) II (c) III (d) IV
- 7) The difference between highest and lowest values of the observation in a given data is called
 (a) Range (b) class size (c) frequency (d) mode
- 8) A die is thrown , the probability of a number more than 4 is
 (a) $\frac{1}{4}$ (b) $\frac{1}{2}$ (c) $\frac{2}{3}$ (d) $\frac{1}{3}$

SECTION – 'B'

- 9) Find $\sqrt{3969}$ by prime factorization.
 OR
 Find the value of: $\sqrt{99} \times \sqrt{396}$.
- 10) What is the least number by which 2160 should be divided so that the quotient is a perfect cube?
- 11) Find the cube root of 571787 by estimation.
- 12) ABCD is a quadrilateral in which all the angles, $\angle A = \angle B = \angle C = \angle D$.
 Show that ABIICD and ADIIBC.
- 13) From the figure , write the following:
 i) The co-ordinate of point A
 ii) The point identified by the co-ordinate (4,3)
 iii) The co-ordinates of point B
 iv) The co-ordinates of point D
- 14) A number is selected randomly from the numbers 1,2,3,4.....,15.
 Find the probability of getting:
 i) An even number
 ii) A prime number

SECTION – 'C'

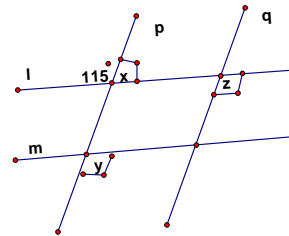
- 15) Find the least number which must be subtracted from 194491 to make it a perfect square. Also find the square root of the number so obtained.
 OR
 Find the square root of 87 correct up to three decimals.

- 16) 2116 plants are to be planted in the garden in such a way that each row contain as many plants as is the number of rows find the number of rows and the number of plants in each rows.
- 17) Find the length of each edge of a cubical box if its volume is 5832 cm^3
- 18) What is the smallest number by which 2560 must be multiplied so that the product is a perfect cube. Also find the cube root of the product.
- 19) If a man running at 55 km/hr. and covers a certain distance in 2 hours and 45 minutes. If he runs at a rate of 16.5 km/hr. , find the time taken by him to cover the same distance.

OR

If 14 pumps of equal capacity can fill tank in 6 days. find the number of pumps to fill the tank in 4 days

- 20) By selling 35 greeting cards, a shopkeeper loses an amount equal to the selling price of 5 greeting cards. Find his loss per cent.
- 21) Factories: i) $x^2 - 12x + 35$, ii) $m^2 + 4m - 96$
- 22) In given figure $l \parallel m$, $p \parallel q$,
Find the values of x , y , z



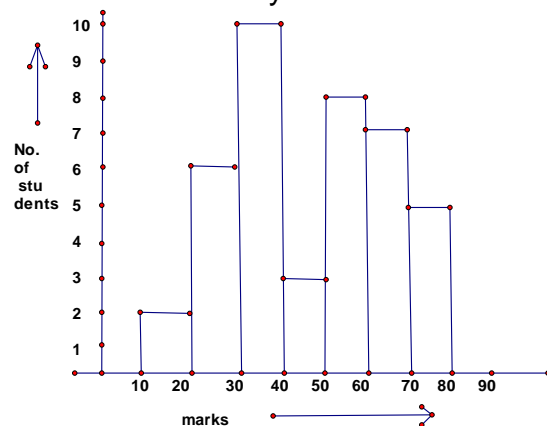
OR

Draw a line segment $AB = 8.5$ Find point P on it such that $AP : PB = 4:3$

- 23) Daily wages (in Rs.) of 15 workers in factory are the following
300,250,200,250,200,250,200,150,350,200,150,300,150,200,250.
Prepare frequency distribution table
 - i) What is the range of wages?
 - ii) How many workers are getting the maximum wages?

- 24) From the adjoining histogram depicting the marks obtained by 41 students of the class , Answer the following.

- a) How many students obtain less than 20 marks?
- b) What is the interval of the highest marks and how many students are there in this?
- c) If passing marks are 30, what is the number of failures?



SECTION – 'D'

- 25) Find the least number which must be added to 4215 to make it a perfect square.
- 26) A garrison of 1200 men has provisions for 25 days. A reinforcement of 300 men arrives. For how many days will the provisions last?
- 27) How long will a train 120m long take to clear a platform 130m long, if its speed is 50km/hr?
- 28) Samir bought a shirt for Rs 336, including 12% VAT and a necktie for Rs. 110 including 10% VAT. Find the printed price (without VAT) of shirt and necktie.

OR

Find the rate of discount being given on a ceiling fan whose selling price is Rs. 1,175 after allowing a discount of Rs 75 on its marked price.

- 29) By selling 35 greeting cards, a shopkeeper loses an amount equal to the selling price of 5 greeting cards. Find his loss percent.
- 30) Simplify : $(a + b - c)^2 - (a - b + c)^2$
- 31) If $x + \frac{1}{x} = 4$, find the value of $\left(x^4 + \frac{1}{x^4}\right)$

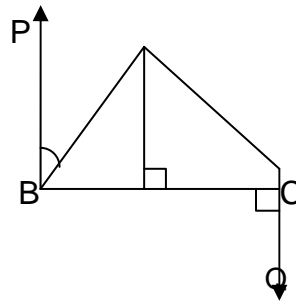
OR

Factorise : $(64m^2 - 144mn + 81n^2) - 25p^2$

- 32) In the figure, ABC is a triangle and AD is an altitude. Show that:

- i) $\angle BPIAD$
- ii) $\angle CQIAD$
- iii) $\angle BPIICQ$

Justify your answer



- 33) The eye colour of 60 people is recorded as below.

Eye colour	Blue	Grey	Brown	Black
No. of people	12	10	25	13

Draw a pie chart to represent the above data.

- 34) The following data represents the daily income (Rs) of 110 workers of a factory.

Class-interval	80-100	100-120	120-140	140-160	160-180
N. of workers	5	35	40	25	10

Draw a histogram to represent above data.