DELHIPUBLIC SCHOOL, CHANDIGARH

Summative Assessment-I, Session 2014-15
Class : VIII, Subject : Maths (Sample Paper)

Time : 3hours   MM : 90

Instructions:

1.   All questions are compulsory.

2.   Section A carries 6 marks, one mark for each part.

3.   Section B carries 10 marks, one mark for each part.

4.   Section C carries 12 marks, two marks for each question.

5.   Section D carries 32 marks, four marks for each question.

6.   Section E carries 30 marks, five marks for each question.

Section A

Q.1   Choose the most appropriate option for the following:

(i)   The sum of all interior angles of a regular pentagon is

(a) 540°   (b) 360°   (c) 600°   (d) 480°

(ii)   If the selling price of an item is `150 and loss is of `10, then the cost price is

(a) ` 140        (b) ` 130   (c) `150           (d) `160

(iii)   A square pyramid has _____ faces.

(a) 6   (b) 4   (c) 5   (d) 7

(iv)   Cube of 0.1 is

(a) 0.001   (b) 0.01   (c) 0.010   (d) 1

(v)   The multiplicative inverse of $\dfrac{-8}{3}$ is

(a) $\dfrac{8}{3}$ (b) $\dfrac{-3}{8}$ (c) 8   (d) −3

(vi)   The digit that cannot be at the unit's place of a perfect square number is

(a) 1   (b) 4   (c) 6   (d) 2

Section B

Q2.   Fill in the blanks:

(a)   Square root of 0.64 is _____

(b)   The probability of getting a multiple of 3 in a single throw of dice is _____

(c)   The number of digits in the cube root of 175616 is _____

(d)   For any two rational numbers m and n, if m × n = n × m, then the property satisfied is called _____property of multiplication of rational numbers.

(e)   A triangular pyramid is also called _____

(f)   If $\dfrac{p}{2} = \dfrac{3}{4}$, then p is equal to _____

(g) Discount is calculated on _____

(h) A parallelogram with all sides of equal length and unequal diagonals is called _____

(i) A triangular prism has _____ edges

(j) The standard form of $\dfrac{21}{-28}$ is _____

Section C

Q3. Find the cube root of 216.

Q4. One of the letters from the word CHEMISTRY is chosen at random. What is the probability that the letter is T?

Q5. Find four rational numbers between $\dfrac{-1}{4}$ and $\dfrac{-1}{8}$

Q6. Using long method, division find the square root of 7225

Q7. If the adjacent angles of a parallelogram are in the ratio 5: 4, find the measure of all the angles.

Q8. If the polyhedron has 30 edges and 19 vertices, find its number of faces.

Section D

Q9. Find the smallest number by which 2187 must be divided so that the quotient is a perfect square.

Q10. What is the smallest number by which 1323 must be multiplied so that the product is a perfect cube?

Q11. Construct a quadrilateral PQRS in which PQ=4 cm, QR=5 cm, PR=7 cm, PS=3 cm and QS=6 cm

Q12. If 8% VAT is included in the price, find the original price of a T.V. bought for ₹17820.

Q13. In the given parallelogram, the bisectors of $\angle$S and $\angle$R meet at O. If $\angle$P=80° and $\angle$Q = 100°, find the measure of $\angle$SOR.
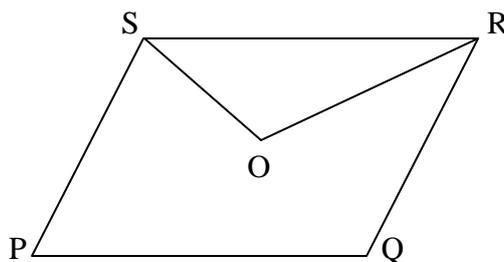
Q14. By what number should $\dfrac{-5}{14}$ be multiplied to get the product $\dfrac{-20}{21}$

Q15. Solve: $\dfrac{2x-3}{5}+\dfrac{3(1-5x)}{2}=7-\dfrac{3x}{2}$

Q16. Out of 200 people surveyed, the following data was gathered about favourite flavour of ice cream

Flavour	Vanilla	Strawberry	Chocolate	Butter Scotch
No. of people	50	60	70	20

Construct a pie chart to represent this data

Section E

Q17. Draw a histogram to represent the following data:

Marks Obtained	0-5	5-10	10-15	15-20	20-25
No. of Girls	8	6	7	11	8

Q18. The ten's digit of a two digit number is three times of its unit's digit. If the sum of this number and the number got by reversing the digits is 88, find the original number.

Q19. Find the selling price of a flat whose cost price was `10,00,000 and was sold at a gain of 45%.

Q20. What number should be subtracted from 6783 to make it a perfect square? Also, find the square root of the perfect square so obtained.

Q21. Find the compound interest on `1,00,000 at the rate of 6% per annum compounded annually, after 2 years.

Q22. Construct a rhombus whose diagonals measure 6 cm and 4 cm.