DELHI PUBLIC SCHOOL, JAMMU Revision Sheet for Cycle Test –II Session 2019 - 2020

Class: VIII

General Instructions:

- *i)* The Revision Sheet consists of four sections A, B, C and D.
- *ii)* All questions are compulsory.
- *iii)* Section A contains 12 questions carrying 1 mark each.
- *iv)* Section B contains 4 questions carrying 2 marks each.
- v) Section C contains 6 questions carrying 3 marks each.
- vi) Section D contains 3 questions carrying 4 marks each.
- vii) Internal choice is given in few questions. Attempt any one out of the given choices.

Section A

Multiple Choice Questions. Choose any one correct answer from the given choices.

Q1: If 90% of x is 315 km, then the value of x is

a) 325km b) 350km c) 350m d) 325m

Q2: For calculation of interest compounded half-yearly, keeping the principal same, which one of the following is true.

a) Double the given annual rate and half the given number of years

- b) Double the given annual rate aa well as the given number of years.
- c) Half the given annual rate as well as the given number of years.

d) Half the given annual rate and double the given number of years.

- Q3: $(p^3q^6 p^6q^3) \div p^3q^3$ is equal to:
 (x) p^3q^3 (x) p^3q^3 (x) p^3q^3 (x) $p^3 q^3$ (x) $q^3 p$

 Q4: The factors of $x^2 4$ are
 (x 2), (x 2)
 (x + 2), (x 2)
 (x + 2), (x + 2)
 (x 4), (x 4)

 Q5: A machine produces 1800 tools in 6 hours. The number of tools produced by it in 9 hours is:
 (x) 2700
 (x) 5400
 (x) 3600
 (x) 900
- Q6: The rates of working powers of men are in the ratio 3 : 5. The number of days taken by them to finish a work will be in the ratio:

a) 3:5 b) 5:3 c) 3:8 d) 8:3

Fill in the blanks to make the statement true:

Q7: ________ is a reduction on the marked price of the article.

Q8: The side of the square of area $9y^2$ is _____

Q9: When the speed remains constant, the distance travelled is ______ proportional to the time. Very Short Answer Type Questions:

Q10: Find the ratio of 5 m to 20 km.

Q11: If 15 workers can build a wall in 45 hours, how many workers will be required to do the same work in 30 hours ?

Q12: Factorise: z - 7 + 7xy - xyz

Section – B

- Q13: The cost of an article was Rs 15,500. Rs 450 were spent on its repairs. If it is sold for a profit of 15%, find the selling price of the article.
- Q14: Shezan got an increase of 10% in his salary. If his salary after increase was Rs 72,710, find his salary before increase.

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Q15: Factorise: $x^2 - 2xy + y^2 - z^2$

OR

Factorise using an identity: $(205)^2 - (195)^2$

Q16: A private taxi charges a fare of Rs 260 for a journey of 200 km. How much would it travel for Rs 279.50 ?

Section - C

Q17: If 8% VAT is included in the prices, find the original price of

a) A TV bought for Rs 13,500

- b) A shampoo bottle bought for Rs 180
- Q18: Abhay lent Rs 8000 to his friend for 3 years at the rate of 5% per annum compound interest. What amount and compound interest does Abhay get after 3 years ?

OR

Rahman lent Rs 16000 to Rasheed at the rate of $12\frac{1}{2}$ % per annum compound interest. Find the amount payable by Rasheed to Rahman after 3 years.

Q19: Factorise:	a)	$16a^2 - \left(\frac{25}{4a^2}\right)$	b)	$49x^2y - \left(\frac{y}{36x^2}\right)$
	c)	$4x^2 - 4xy + y^2 - 9z^2$	d)	x^4 - $(x - y)^4$

- Q20: Factorise the following: a) $x^2 + 2x 63$ b) $8x^2 22x + 9$ c) $2a^2 + 3a 27$ Q21: If the weight of 12 sheets of thick paper is 40 grams, how many sheets of the same paper would weigh $2\frac{1}{2}$ kg?
- Q22: Suppose 2 kg of sugar contains 9 X 10⁶ crystals. How many sugar crystals are there in (a) 6 kg of sugar? (b) 2.7 kg of sugar?

Section - D

Q23: A man sold two watches at Rs 25,920 each. These were sold at 8% gain and 4% loss respectively. Find the gain or loss percent in the whole transaction.

OR

Find the compound interest on Rs 2,50,000 at rate of 8% per annum for $1\frac{1}{2}$ years when the interest is

- a) Compounded annually
- b) Compounded half yearly
- c) Compounded quarterly

Q24: Divide : a) $x^2 - 5x + 6$ by x - 2 b) $8a^2 - 18x + 9$ by 2x - 3

Q25: A and B can do a piece of work in 18 days ; B and C in 24 days ; C and A in 20 days. How much time will A alone take to finish the work.