DELHI PUBLIC SCHOOL, JAMMU
REVISION SHEET FOR FINAL EXAMINATION
SESSION (2019-20)

Subject: Maths
Class: VIII

Multiple Choice Questions:

Q1. The Value of $\left(\frac{4}{9}\right)^{-3} \times \left(-\frac{3}{2}\right)^{-3}$ is equal to

a) $\frac{27}{8}$ b) $\frac{2^3}{3}$ c) $\frac{-27}{8}$ d) $\frac{-9}{4}$

Q2. $9x^2 - 1$ is divided by $3x-1$, then quotient is

a) 3x-3   b) 3x+1   c) -1+3x   d) 3x

Q3. The sum of two numbers which are in the ratio 2:5 is 21. The numbers are

a) 8, 13   b) 7, 14   c) 6, 15   d) 12, 9

Q4. Salin secured 60% marks in an examination. If he scored 420 marks, the maximum marks were.

a) 720   b) 600   c) 620   d) 700

Q5. ` 1000 will amount ` 1331 at 10% per annum compounded annually in

a) 2 years   b) 3 years   c) 4 years   d) 5 years

Q6. If a and b veries inversely as each other and a=6 when b=8, it 8=4 then b=?

a) 10   b) 12   c) 3   d) 16

Q7. The area of a Rhombus PQRS when diagonals are 7cm and 6cm is

a) 21 sq. cm   b) 28 sq. cm   c) 24 sq. cm   d) 26 sq. cm

Q8. If each of a cube is doubled, its surface area will increase.

a) 2 times   b) 3 times   c) 4 times   d) remain same

Q9. Total surface area of a cube is 294 sq.cm, then its volume is

a) 243 cm^3 b) 343 cm^3 c) 294 cm^3 d) 512 cm^3

Q10. The mid-value of a class interval is called its

a) class unit   b) class marks   c) width   d) Range

Fill ups:

Q11. 2.036×10^{-6} in usual form is _____

Q12. The factorization of $9x-18x^2$ _____

Q13. The equation 5x+8=0 is an example of _____ equation.

Q14. If 20% of x is 10 then x=_____

Q15. If x-4y =0, then x and y vary _____

Very Short answer type

Q16. Find the volume of a cuboid when l=8cm, b=6cm, h=3 cm.

Q17. Factorise: $x^2 - 5x - 24$

Q18. If a number is paid ` 150 for 4 days of work, for 12 days of work he will get............

Q19. Find the marked price when S.P = 1600 and discount = 20%

Q20. The probability that it will rain tomorrow is 0.85. What is the probability that it will not rain tomorrow?

Short Answer Type

Q21. A die is thrown. Find the probability of getting.

    a)   a prime number   b)   2 or 4

Q22. George bought a V.C.R at the list price of 18500. If the rate of VAT is 8%, find the amount he had to pay for purchasing V.C.R.

Q23. Solve for x: $- 3^{3x+3} = 9^{x+4}$

Q24. A number consists of two digit . The digit at the tens place is twice that of the digit at unit place. If 18 is subtracted from the number, the digits are reversed. Find the number.

Q25. Find the compound interest on ì 12000 for $1\frac{1}{2}$ years at 8% per annum compounded semi-annually.

Q26. If 28 men can reap a field in 8 days, in have many days will 14 men do the same work?

Long Answer Type

Q27. Tap A can fill a tank in 8 hours and Tap B can empty the tank in 12 hours. How long will it take to fill the empty tank, if both of them are opened together.

Q28. The area of a trapezium is 390 sq. cm. If its parallel sides are in the ratio 3:5 and the perpendicular distance between them is 19 cm. Find the length of each parallel side.

Q29. The following data shows the agriculture production in metric tonnes during a certain year.

Food grains	Wheat	Sugarcane	Rice	Cereals	Pulses
Production	75	27	60	36	18

Represent the above data by pie-chart.

Q30. Plot the following points on the graph choosing a suitable scale.

x	0	1	2	4	5
y	0	40	80	160	200

From the graph, find the value of y if x=3 and if y=100, what is the value of x?

Q31. Find the Length of thr longest pole that can ber put in a room of length 10cm and breadth 10 cm and height 5cm.

Q32. Factorize the following

    a) $p^2 + 6x + 8$ b) $q^2 - 10q + 21$

Q33. Factorize the expressions and divide them as directed

a) $9(x-2y)^2 -4(x-2y)-13$ b) $3(x + y)^2 - 8(x + y) + 5$

Q34. By what number should $(4)^{-1}$ be multiplied so that the product is equal to $(-5)^{-1}$?

Very long answer type

Q35. Hasan buys two kinds of cloth material fro school uniforms, shirt material that vests him ` 50 per meter and trouser material that vests him ` 90 per meter. For every 3 meter of the shirt material he buys 2 meters of the trouser material. He sells the materials at 12% and 10% profit respectively. His total sale is ` 36,600. How much trouser material did he buy?

Q36. The floor of a building consists of 3000 tiles which are rhombus shaped and each of its diagonals are 45m and 30cm in length. Find the total cost of polishing the floor, if the cost per m^2 is ` 4.

Q37. Arif took a loan of ` 80,000 from a bank. If the rate of interest is 10% per annum, find the difference in amount he would be paying after 1½ years if the interest is

a)   Compounded annually   b)   Compounded half yearly

Q38. A Cycle was purchased for ₹ 700 and ₹ 50 was spent on its repair.It was later sold at a profit of 5% . Find the S.P of the Cycle.

Q39. A dice was thrown 28 times and following scores were obtained : 3, 2, 3, 6, 1, 5, 2, 6, 3, 5, 4, 1, 6, 1, 4, 2, 5, 1, 5, 2, 7, 3 ,2, 3, 3, 6, 4, 1. Prepare a frequency table for the scores.

Q40. Factorize:

a) $10x^2-23xy+12y^2$ b) $2y^2 + y -3$