No. of Printed Pages/Questions: 2 / 30

O. P. JINDAL SCHOOL, SAVITRI NAGAR

Half Yearly Examination (2018 – 2019)

Class: VII **MM: 80**

Subject: Mathematics **Time: 3 Hrs.**

Name: _____ Class / Section: _____ Roll No.:_____

(Fifteen Minutes Extra will be given for reading the Question Paper.)

General Instructions: ***All questions are compulsory.***

1) Question no1 to 6 are of 1 mark.

2) Question no7 to 12 are of 2 marks.

3) Question no13 to 22 are of 3 marks.

4) Question no23 to 30 are of 4 marks.

Q1. How much less than -2 is -6 .

Q2. Find the value of $(\frac{1}{6})^0$.

Q3. Find the reciprocal of $(\frac{11}{13})^{-1}$ = _____

Q4. Write the product of (-2ab) and $(-3ab^2)$.

Q5. If A:B = 3:4 and B:C = 4:5 find A:C .

Q6. Find the supplement of the angle 63° .

Q7. The sum of two integers is 10 and if one of them is -5 , find the other .

Q8. Divide 0.228 by 0.38 .

Q9. Find the value of $(\frac{4}{3})^{-3} \times (\frac{4}{3})^{-2}$.

Q10. (i) Express in scientific notation: 0.0000427

(ii) Express in decimal notation: $7.9 \times (10)^{-4}$

Q11. Find the value of algebraic expressions $x^2 y + x y^2$, if x = 2, y = 3 .

Q12. An angle is double of its supplement . Find its measure.

Q13. Calculate and verify using distributive law over addition: 17 x [(-4)+3] .

Q14. Arrange $\frac{-3}{5}$, $\frac{7}{-10}$ and $\frac{-5}{6}$ in ascending order .

Q15. Convert:

a) 25m into km

b) 55mm into cm

c) 8 paise into rupee.

Q16. If $\frac{a}{b} = (\frac{3}{5})^{18} \div (\frac{3}{5})^{16}$, find $(\frac{a}{b})^2$

Q17. Subtract (2a – 3b + 4c) from the sum of (a +3b -4c) and (4a – b + 9c) .

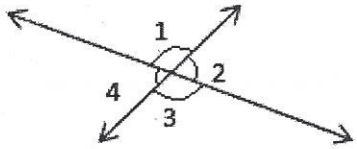
Q18. Divide 6400 in the ratio of 5:4:7 .

Q19. In what time will Rs.5600 amount to Rs 6720 at 8% per annum ?.

Q20. Draw rough sketch for the following:

a) In ΔABC, BE is a median.
b) In ΔPQR, PQ and PR are altitude of the triangle.
c) In ΔXYZ, YL is an altitude in the exterior of the triangle.

Q21. If $\angle$ 1 = 70° , find all angles.



Q22. If one angle of a triangle is 70^0 and remaining two angles are in the ratio of 5:6 , find the remaining angles of the triangle .

Q23. Reshma deposited Rs 10,000 in her bank account on Tuesday and withdrew Rs 2,000 on Wednesday. Next day, she again deposited Rs 3,000 .What was her balance on Thursday? The total amount she has donated for the victims of Kerala's flood. What moral value we are getting from her act?

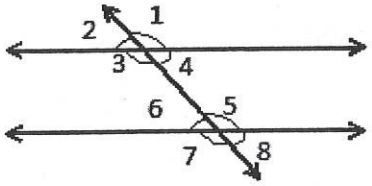
Q24. An apple weighs 64g and one orange weighs 51g. Determine the weight of 128 such apples and 41 such oranges in Kilograms.

Q25. Solve for x: (i) $\frac{3X-1}{5} - \frac{X}{7} = 3$ (ii) 5(2x-3) - 3(3x-7) = 5.

Q26. Ramesh bought an article for Rs.12,800 and spent Rs.1,200 on its transportation. He sold it for Rs.16,800. Find his gain percent.

Q27. If 60% of the workers in the factory are females and the number of males is 496. Find the number of females in the factory .

Q28. If ∠1 = 80°, find all angles



Q29. A ladder 13m long reaches a window of a building 12m above the ground. Determine the distance of the foot of the ladder from the building.

Q30. If two lines intersect each other , prove that their vertically opposite angles are equal..

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18/9/18