MATHEMATICS
SAMPLE TEST PAPER (SEMSTER I)
CLASS VIII

Class:8   Max Mks:45
Time :2hrs   No of pages: 2

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General Instructions:
- All questions are compulsory.
- Questions 1to 5 carry 1mark each.
- Questions 6 to 16 carry 2mark each.
- Questions 17 to 22 carry 3mark each.

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1. Find the additive inverse of $\dfrac{-7}{11}$

2. Write the number in standard form $349*10^6$

3. Find the number whose square is given 5929

4. $\sqrt{0.8} = ?$

5. convert 6:7 to percentage

6. Verify

$(\dfrac{3}{4} + \dfrac{-2}{5})+ \dfrac{-7}{10} = \dfrac{3}{4} +(\dfrac{-2}{5} + \dfrac{-7}{10})$

7. Find $((5^{-1}X3^{-1})^{-1} \div 6^{-1})$

8. By using the formula evaluate (198)

9. Evaluate $\sqrt{(11025)}$

10. Evaluate $\sqrt[3]{3375}$

11. check weather the number is divisible by 9 or not

a) 845   b) 45689   c) 981   d) 1026

12. Subtract +6p+q+3r+8 from p-2q-5r+6

13. Evaluate using identity $(49)^2$

14. In what time will Rs 5000 amount to Rs 2230 at 10% per annum, compounded annually?

15. On selling a boat for rs 521 a man gains 8 % . For how much should he sell it to gain 9%

16. a) By what rational number should $\dfrac{21}{43}$ be multiplied to obtain $\dfrac{12}{23}$

b) Find the value of x $(4^{2x-1} + 10) \div 8 = 4$

17. Find the value of A,B,C

  A B
XBA
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(B+1)CB

18. Factories $(2x^2+3x-9)$ $(4x^2-9x+8)$ b) $x^2-17x+16$

19. When $(x- \dfrac{1}{x}) = 5$, find value of $(x2 - \dfrac{1}{x2})$

20. solve $\dfrac{9x-7}{(4x+2)} = \dfrac{3x+4}{(4x+7)}$

21. A and B can do a piece of work in 15 days; B and C can do it in 12 days while C and A can

finish it 20 days. In how many days will A,B,C finish it working together?

22. a) Find the SP   when CP = Rs 1580 and gain % = 2%

b) Find the CP   when SP = Rs 6520 and gain % = 12%