



## Standard 7 MATHS

Time: 1.30 Hrs.

Marks: 30

**I. Choose the best answer:****5×1=5**

- 1) Subtract 1.35 from 3.51  
a) 6.21                      b) 4.86                      c) 8.64                      d) 2.16
- 2)  $2.08 \times 10 =$  \_\_\_\_\_  
a) 20.8                      b) 208.0                      c) 0.208                      d) 280.0
- 3) 0.07% is  
a)  $\frac{7}{10}$                       b)  $\frac{7}{100}$                       c)  $\frac{7}{1000}$                       d)  $\frac{7}{10000}$
- 4) Which among the following is the simple interest for the principle of Rs.1000 for one year at the rate of 10% interest per annum?  
a) Rs.200                      b) Rs.10                      c) Rs.100                      d) Rs.1000
- 5) The factors of  $x^2 - 6x + 9$  are  
a)  $(x-3)(x-3)$                       b)  $(x-3)(x+3)$                       c)  $(x+3)(x+3)$                       d)  $(x-6)(x+9)$

**II. Fill in the blanks:****5×1=5**

- 6)  $0.05 + 0.5 =$  \_\_\_\_\_
- 7) Convert 80% as decimal \_\_\_\_\_
- 8) Simple Interest - I = \_\_\_\_\_
- 9)  $(p-q)^2 =$  \_\_\_\_\_
- 10)  $(a+b)(a-b) =$  \_\_\_\_\_

**III. Answer any four questions:****4×2=8**

- 11) Add:  $25.67 + 33.856$
- 12) A wheel of a baby cycle covers 49.7 cm in one rotation. Find the distance covered in 10 rotations.
- 13) Out of 20 beads, 5 beads are red. What is the percentage of red.
- 14) In a village 70.5% people are literate. Express it as a decimal.
- 15) Expand the following squares, using suitable identities.  $(2x+5)^2$
- 16) Solve the inequation:  $-2 \leq z + 3 \leq 5$ , where z is an integer. Also, represent the solution, graphically.

**IV. Answer any four questions:****4×3=12**

- 17) Sulaiman bought 3.350 kg of potato, 2.250 kg of Tomato and some onions. If the weight of the total items are 10.250 kg, then find the weight of onions?
- 18) Sugarcane juice of 1.5 l has to be shared equally among five members. What is the share of each member?
- 19) Kuzhal's mother makes doasa by mixing the batter made from 1 portion of black gram with 4 portions of rice, represent each of the ingredients used in the batter as percentage.
- 20) In what time will Rs.5600 amount to Rs. 6720 at 6% per annum?
- 21) Simplify:  $53 \times 47$  by using identify  $(a+b)(a-b) = a^2 - b^2$
- 22) Simplify:  $(a+b)^2 - 4ab$