## JUNIOR SCHOOL CERTIFICATE EXAMINATION, 2014

### MATHEMATICS (CREATIVE + MCQ)

[According to the Syllabus of 2014]

## Subject Code :

Control of the second

Marks

4

4

2

2

2

4

4

Time-3 hours

Full marks—60 + 40 = 100

### Creative Questions

Marks 60

[N.B.—The figures in the right margin indicate full marks. Read the following stems attentively and answer six questions taking at least one from each group.]

### Part A-Arithmetic

- The length of a rectangular garden is 40 meters and breadth is 30 meters. There is a 3 meters wide road inside around the garden. The road is carpeted with the length of a brick 25 cm and breadth 12.5 cm. Find the area of the garden. (a) 2
  - Find the area of the road.
  - -4 Find the number of bricks for carpeting the road. 4
- Babul Hossain sold a goat at the loss of 8%. If it were sold at Tk, 800 more, there would be a profit of 8%. After that he deposited money as same as the cost price of the goat in a bank at the rate of profit 10% per annum in 3 years.
  - Find the simple profit of Tk. 800 at the rate of Tk. 8 per annum in 3 years. Find out the cost price of the goat.
  - If total money save in bank, what will be the difference of simple profit and compound profit?

#### Part B-Algebra

- $U = \{x : x \text{ natural number and } x < 8\};$ 
  - $P = \{1, 3, 5\}$  $Q = \{x : x \text{ natural number and } 1 \le x \le 7\}$
  - and  $R = \{2, 4, 6\}$
  - (a) Determine Pc. (b) Find (P ∩ Q) ∪ (Q ∪ R).
  - Prove that  $(O \cup R)' = O' \cap R'$ .
- 3x + 2y = 12, 2x + 3y = 13 are simple equations,
  - (a) Verify (4, 0) for first equation.
  - Solve the both equations using the method of climination.
  - Find the solution from the graph.
- $x + \frac{1}{x} = 5$  is an Algebraic equation, where x > 0.
  - (a) Find the value of  $3x + \frac{3}{x}$ .
  - (b) Find the value of  $x^4 + \frac{1}{4}$ .
  - (c) Prove that,  $x^2 \frac{1}{x^2} \neq x^3 + \frac{1}{x^3}$ .

## Part C—Geometry

- ABCD is a rectangle, where AB = 3 cm, the diagonals AC and BD of the rectangle intersect
  - 6628 Draw the figure mentioned in the stem.
    - Prove that, AC = BD and AO = CO, BO = DO. (6)
    - If AB is the length of one side and AC = 5 cm. is a diagonal, then construct the rhombus. [The sign of construction and statement are essential]

[Please turn over ]

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Meiping Wu, Yifeng Niu, Mancang Gu, Jin Cheng

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