

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

Marks

1. 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.
  - (a) Find the area of the garden. 2
  - (b) Find the area of the road. 4
  - (c) Find the number of bricks for carpeting the road. 4
2. 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.
  - (a) Find the simple profit of Tk. 800 at the rate of Tk. 8 per annum in 3 years. 2
  - (b) Find out the cost price of the goat. 4
  - (c) If total money save in bank, what will be the difference of simple profit and compound profit? 4

## Part B—Algebra

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

## Part C—Geometry

6. ABCD is a rectangle, where  $AB = 3$  cm, the diagonals AC and BD of the rectangle intersect at O.
  - (a) Draw the figure mentioned in the stem. 2
  - (b) Prove that,  $AC = BD$  and  $AO = CO$ ,  $BO = DO$ . 4
  - (c) If AB is the length of one side and  $AC = 5$  cm. is a diagonal, then construct the rhombus. 4

[The sign of construction and statement are essential]

[Please turn over ]

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

# Jsc 2014 Math Out Question

**Yicheng Fang**



**Jsc 2014 Math Out Question:**

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