

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

- 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. 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. 2
  - Find out the cost price of the goat. 4
  - If total money save in bank, what will be the difference of simple profit and compound profit? 4

## Part B—Algebra

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

## Part C—Geometry

- ABCD is a rectangle, where  $AB = 3$  cm, the diagonals AC and BD of the rectangle intersect at O.
  - Draw the figure mentioned in the stem. 2
  - Prove that,  $AC = BD$  and  $AO = CO$ ,  $BO = DO$ . 4
  - 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 ]

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# Jsc Math Question Out 2014

**Marco Cascella**



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Exascale Computing SPPEXA of the German Research Foundation DFG presented at the SPPEXA Symposium in Dresden during October 21-23 2019. In that respect it both represents a continuation of Vol 113 in Springer's series Lecture Notes in Computational Science and Engineering the corresponding report of SPPEXA's first funding phase and provides an overview of SPPEXA's contributions towards exascale computing in today's supercomputer technology. The individual chapters address one or more of the research directions: 1 computational algorithms 2 system software 3 application software 4 data management and exploration 5 programming and 6 software tools. The book has an interdisciplinary appeal: scholars from computational sub-fields in computer science mathematics physics or engineering will find it of particular interest.

Research and Applications in Global Supercomputing Segall, Richard S., Cook, Jeffrey S., Zhang, Qingyu, 2015-01-31

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