JUNIOR SCHOOL CERTIFICATE EXAMINATION, 2014

MATHEMATICS (CREATIVE + MCQ)

[According to the Syllabus of 2014]

Subject Code : | 1 | 0 | 9 |

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 $(Q \cup R)' = Q' \cap R'$. 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. [The sign of construction and statement are essential] 4

[Please turn over]

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