

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।

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NASA's Human Space Exploration United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space, 2012 Computer Algebra in Scientific Computing François Boulier, Matthew England, Timur M. Sadykov, Evgenii V. Vorozhtsov, 2021-08-16 This book constitutes the proceedings of the 23rd International Workshop on Computer Algebra in Scientific Computing CASC 2021 held in Sochi Russia in September 2021 The 24 full papers presented together with 1 invited talk were carefully reviewed and selected from 40 submissions The papers cover theoretical computer algebra and its applications in scientific computing 计算机代数在科学计算中的应用, 2021-05-25 etc all in Bloomberg Markets 2 6 Paypal Visa USDC Microstrategy Square NFT SpaceX 2009 Finn Brunton Spam A Shadow History of the Internet Communication and Obfuscation A User's Guide for Privacy and Protest

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