## 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  $3x + \frac{3}{2}$ .
  - (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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SJ Ball

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# **Jsc 2014 Math Out Question:**

Momo (Aka the Life Before Us) - Emile Ajar & Romain Gary MOMO has been translated into seven teen languages. Emile Ajar is the pseudonym for an elu sive, highly gifted young writer in France. MoMo is his second novel ... The Life Before Us by Romain Gary This sensitive, slightly macabre love story between Momo and Madame Rosa has a supporting cast of transvestites, pimps, and witch doctors from ... The Life Before Us ("Madame Rosa") by Gary, Romain This sensitive, slightly macabre love story between Momo and Madame Rosa has a supporting cast of transvestites, pimps, and witch doctors from Paris's immigrant ... The Life Before Us: Gary, Romain, Manheim, Ralph ... Editorial Reviews. Now back in print, this heartbreaking novel by Romain Gary has inspired two movies, including the Netflix feature The Life Ahead. Momo has ... The Life Before Us The Life Before Us is a novel by French author Romain Gary who wrote it under the pseudonym of "Emile Ajar". It was originally published in English as Momo ... The Life Before Us | 1streading's Blog - WordPress.com Jun 6, 2022 — The Life Before Us is, of course, the novel with which Romain Gary ... Emile Ajar. He chose to publish under a pseudonym as, by the 1970s, he ... The Life Before Us (Paperback) Nov 1, 2022 — This sensitive, slightly macabre love story between Momo and Madame Rosa has a supporting cast of transvestites, pimps, and witch doctors from ... The Life Before Us by Romain Gary, Paperback Now back in print, this heartbreaking novel by Romain Gary has inspired two movies, including the Netflix feature The Life Ahead Momo has been. La vie devant soi by Romain Gary The young narrator of this book, Momo, teaches us a bit about how it is possible to survive and experience happiness even given an unconventional sort of life. Conflict and Duality in Romain Gary's Gros-Câlin and La ... by V Tirven-Gadum — Abstract: Romain Gary is the only French writer to have received the Prix Goncourt twice, once as himself and the second time as Émile Ajar. Understanding mass

balance for food compliance Nov 6, 2022 — Mass balance, in relationship to food production, can be defined as being the ability to account for all quantities of raw materials, waste, ... Tolerance on Mass Balance for Recall/withdrawal for BRC Aug 3, 2016 — Tolerance on Mass Balance for Recall/withdrawal for BRC - posted in BRCGS ... For example, if you have used 100 Kg of raw materials and 1000 donut ... BRC Auditing - What To Expect Under Food Issue 8 Oct 17, 2019 — The mass balance is the quantity of incoming raw material against the quantity used in the resulting finished products, taking process waste and ... The Mass Balance Approach in Feedstock Substitution An established method to foster sustainability in existing infrastructure · Benefits of the Mass Balance Approach · Biomass balance and ChemCycling · ChemCycling ... 8. Mass Balance Mass-balance analysis may also be referred to as. "Material Flow Analysis" or "Substance Flow Analysis." Table 8.1 provides several examples of possible inputs,. Mass Balance Approach in the Chemical Industry The mass balance Approach (MBA) is a process for determining the use of chemically recycled or bio-based feedstock in a final product when both recycled and ... BRC 3.9.2 Trace Exercise Sample Procedure to conduct a mass balance check · 1. Select a raw material lot number used in a finished product made within the last 6 months. · 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain - the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every. Longman Preparation Course for the TOEFL ® iBT Test Providing both a comprehensive language-skills course and a wealth of practice for all sections of the test, the Longman Preparation Course for the TOEFL iBT® ... Longman Preparation Course for the TOEFL iBT Test with ... Excellent book for TOEFL IBT test. Cover all the skills you need for the test (reading, writing, speaking, listening). It comes with a english lab access that ... Longman Preparation Course for the TOEFL Test ... Book overview · Complete language skills instruction for skills tested on both the TOEFL® paper test and the Test of Written English. · Longer reading passages ... Longman Introduction and Preparation for TOEFL The Longman Preparation Course for TOEFL prepares students for the test with guidelines, strategies, tips and hints. If you would like to explore alternative ... Longman Preparation Course for the TOEFL iBT Test Combining a comprehensive language skills course with a wealth of practice for all sections of the TOEFL iBT: what more do you need? The Longman Preparation ... Longman Preparation for the TOEFL iBT No information is available for this page. Longman Complete Course for the TOEFL® Test Longman Preparation Course for the TOEFL® Test: Volume A- Skills and Strategies, Second. Edition provides comprehensive coverage of the language skills and test ... Longman Preparation Course for the TOEFL Test: Ibt The Student Book features diagnostic pre-tests and post-tests, plus eight mini-tests and two complete TOEFL tests. The CD-ROM includes an additional eight mini- ... Longman Preparation Course for the TOEFL® Test Next ... It is based on the most up-to-date information available on the iBT. Longman Preparation Course for the TOEFL Test: Next Generation iBT can be used in a ...

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