#### 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 ]

# **Jsc Math Question Out 2014**

**L** Cohen

# **Jsc Math Question Out 2014:**

NIC Symposium 2014 - Proceedings K. Binder, G. Münster, M. Kremer, 2014-03-21 **Current Problems in** Applied Mathematics and Computer Science and Systems Anatoly Alikhanov, Pavel Lyakhov, Irina Samoylenko, 2023-06-05 This book is based on the best papers accepted for presentation during the International Conference on Actual Problems of Applied Mathematics and Computer Systems APAMCS 2022 Russia The book includes research materials on modern mathematical problems solutions in the field of scientific computing data analysis and modular computing The scope of numerical methods in scientific computing presents original research including mathematical models and software implementations related to the following topics numerical methods in scientific computing solving optimization problems methods for approximating functions etc The studies in data analysis and modular computing include contributions in the field of deep learning neural networks mathematical statistics machine learning methods residue number system and artificial intelligence Finally the book gives insights into the fundamental problems in mathematics education The book intends for readership specializing in the field of scientific computing parallel computing computer technology machine learning information security and mathematical education *Network Coding and Subspace Designs Marcus* Greferath, Mario Osvin Pavčević, Natalia Silberstein, María Ángeles Vázguez-Castro, 2018-01-29 This book written by experts from universities and major research laboratories addresses the hot topic of network coding a powerful scheme for information transmission in networks that yields near optimal throughput It introduces readers to this striking new approach to network coding in which the network is not simply viewed as a mechanism for delivering packets but rather an algebraic structure named the subspace which these packets span This leads to a new kind of coding theory employing what are called subspace codes The book presents selected highly relevant advanced research output on Subspace Codes and Rank Metric Codes Finite Geometries and Subspace Designs Application of Network Coding Codes for Distributed Storage Systems The outcomes reflect research conducted within the framework of the European COST Action IC1104 Random Network Coding and Designs over GF q Taken together they offer communications engineers R D engineers researchers and graduate students in Mathematics Computer Science and Electrical Engineering a comprehensive reference guide to the construction of optimal network codes as well as efficient encoding and decoding schemes for a given network code Национальные интересы: приоритеты и безопасность No 42 (279) 2014 ,2017-05-20 Национальные интересы: приоритеты и безопасность No 45 (282) 2014 ,2017-05-20 Национальные интересы: приоритеты и безопасность No 35 **(272) 2014** ,2017-05-20 Национальные интересы: приоритеты и безопасность No 37 (274) 2014 ,2017-05-20 *Национальные интересы: приоритеты и безопасность No 40 (277) 2014 ,2017-05-20* Software for Exascale Computing - SPPEXA 2016-2019 Hans-Joachim Bungartz, Severin Reiz, Benjamin Uekermann, Philipp Neumann, Wolfgang E. Nagel, 2020-07-30 This open access book summarizes the research done and results obtained in the second funding phase of

the Priority Program 1648 Software for 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 sumpercomputer 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 Rapidly generating and processing large amounts of data supercomputers are currently at the leading edge of computing technologies Supercomputers are employed in many different fields establishing them as an integral part of the computational sciences Research and Applications in Global Supercomputing investigates current and emerging research in the field as well as the application of this technology to a variety of areas Highlighting a broad range of concepts this publication is a comprehensive reference source for professionals researchers students and practitioners interested in the various topics pertaining to supercomputing and how this technology can be applied to solve problems in a multitude of disciplines

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