

SSC

MARCH 2022

**MATHEMATICS
ALGEBRA – PART I**

Time allowed: 2 hours

Maximum marks: 40

General Instructions:

- (i) All questions are compulsory.
- (ii) Use of calculator is not allowed.
- (iii) The numbers to the right of the questions indicate full marks.
- (iv) In case MCQ's Q. No. 1(A) only the first attempt will be evaluated and will be given credit.
- (v) For every MCQ, the correct alternative (A), (B), (C) or (D) of answers with sub question number is:

1. (A) For every sub question four alternative answers are given. Choose the correct answer and write the alphabet of it: [4]

(i) Which one is the quadratic equation?

A) $\frac{x}{x} - 3 = x^2$

B) $x(x + 5) = 2$

C) $n - 1 = 2n$

D) $\frac{1}{x^2}(x + 2) = x$

Answer: B) $x(x + 5) = 2$

Solution:

The general form of a quadratic equation is $ax^2 + bx + c = 0$.

Option A: $\frac{x}{x} - 3 = x^2 \Rightarrow x^3 + 3x - 5 = 0$

We can see it is not in the form of $ax^2 + bx + c = 0$.

Hence, it is not a quadratic equation.

Option B: $x(x + 5) = 2 \Rightarrow x^2 + 5x - 2 = 0$

We can see it is in the form of $ax^2 + bx + c = 0$, with $a = 1$, $b = 5$, and $c = -2$.

Hence, it is a quadratic equation.

Option C: $n - 1 = 2n \Rightarrow n + 1 = 0$

We can see it is not in the form of $ax^2 + bx + c = 0$.

Hence, it is not a quadratic equation.

Option D: $\frac{1}{x^2}(x + 2) = x \Rightarrow x^3 - x - 2 = 0$

We can see it is not in the form of $ax^2 + bx + c = 0$.

Hence, it is not a quadratic equation.

(ii) First four terms of an A.P. are, whose first term is -2 and common difference is -2 .

A) $-2, 0, 2, 4$

B) $-2, 4, -8, 16$

C) $-2, -4, -6, -8$

D) $-2, -4, -8, -16$

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Kathleen Armour



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Critical Data Tables George E. Corson, Corn Industries Research Foundation, 1957 **The Journal of Physical Chemistry**, 1928 **Japanese Journal of Applied Physics**, 2001

Ovid's Tristia iii, with intr., notes & tr., by a tutor of University correspondence college Ovid, Publius Ovidius Naso, 1889

Resources in education, 1987-08 **Transportation Research Record**, 1992 **National Assessment of**

Educational Progress 1969-1983 Theodore B. Pratt, 1984 During its first 14 years of existence the National Assessment of Educational Progress NAEP was located at the Education Commission of the States ECS This annotated bibliography of 575 references lists all major publications by or about NAEP published between 1969 and 1983 References are in a classified arrangement by specific or special assessment Documents not dealing with a specific assessment are grouped by Methodological Publications Special Analyses and General and Miscellaneous Materials by NAEP are separated from materials about NAEP done by external organizations Subject Personal Author and Preparing Institution indexes are provided The compilation is based on materials documents and journal articles archived in the database of the Educational Resources Information Center ERIC and therefore most documents cited can be obtained through the ERIC Document Reproduction Service EDRS WTB **Code of Federal Regulations**, 2001 *Applied X-rays* George Lindenberg Clark, 1927 **Applied**

Mechanics Reviews, 1962 *Diffusion and Defect Data*, 1999 Cognitive Internet of Things: Frameworks, Tools and Applications Huimin Lu, 2019-02-18 This book provides insights into the research in the fields of artificial intelligence in combination with Internet of Things IoT technologies Today the integration of artificial intelligence and IoT technologies is attracting considerable interest from both researchers and developers from academic fields and industries around the globe It is foreseeable that the next generation of IoT research will focus on artificial intelligence beyond artificial intelligence approaches The rapidly growing numbers of artificial intelligence algorithms and big data solutions have significantly increased the number of potential applications for IoT technologies but they have also created new challenges for the artificial intelligence community This book shares the latest scientific advances in this area **Intelligence Science and Big Data Engineering** Changyin Sun, Fang Fang, Zhi-Hua Zhou, Wankou Yang, Zhiyong Liu, 2013-11-18 This book constitutes the thoroughly refereed post conference proceedings of the 4th International Conference on Intelligence Science and Big

Data Engineering IScIDE 2013 held in Beijing China in July August 2013 The 111 papers presented were carefully peer reviewed and selected from 390 submissions Topics covered include information theoretic and Bayesian approaches probabilistic graphical models pattern recognition and computer vision signal processing and image processing machine learning and computational intelligence neural networks and neuro informatics statistical inference and uncertainty reasoning bioinformatics and computational biology and speech recognition and natural language processing *The Code of Federal Regulations of the United States of America* ,1968 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government **Parallel Processing and Applied Mathematics** Roman Wyrzykowski,Jack Dongarra,Marcin Paprzycki,Jerzy Wasniewski,2003-08-01 This book constitutes the thoroughly refereed post proceedings of the 4th International Conference on Parallel Processing and Applied Mathematics PPAM 2002 held in Naleczow Poland in September 2001 The 101 papers presented were carefully reviewed and improved during two rounds of reviewing and revision The book offers topical sections on distributed and grid architectures scheduling and load balancing performance analysis and prediction parallel non numerical algorithms parallel programming tools and environments parallel numerical algorithms applications and evolutionary computing and neural networks *Advanced Approaches to Intelligent Information and Database Systems* Janusz Sobecki,Veera Boonjing,Suphamit Chittayasothorn,2014-07-08 This book consists of 35 chapters presenting different theoretical and practical aspects of Intelligent Information and Database Systems Nowadays both Intelligent and Database Systems are applied in most of the areas of human activities which necessitates further research in these areas In this book various interesting issues related to the intelligent information models and methods as well as their advanced applications database systems applications data models and their analysis and digital multimedia methods and applications are presented and discussed both from the practical and theoretical points of view The book is organized in four parts devoted to intelligent systems models and methods intelligent systems advanced applications database systems methods and applications and multimedia systems methods and applications The book will be interesting for practitioners and researchers especially graduate and PhD students of information technology and computer science as well more experienced academics and specialists interested in developing and verification of intelligent information database and multimedia systems models methods and applications The readers of this volume are enabled to find many inspiring ideas and motivating practical examples that will help them in the current and future work *ECAI 2010* Helder Coelho,Rudi Studer,Michael Wooldridge,Michael J. Wooldridge,2010 LC copy bound in 2 v v 1 p 1 509 v 2 p 509 1153 **English** **Mechanic and World of Science** ,1888 **Abstract Bulletin of the Institute of Paper Chemistry** ,1983

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