

**PJ-582**

1 Semester M.C.A. Examination, February - 2020
(CBCS Scheme)

COMPUTER SCIENCE

MCA - 104T : Discrete Mathematics

Time : 3 Hours

Max. Marks : 70

PART - A

Answer any five questions. Each question carries six marks.

5×6=30

1. (a) Suppose $A, B \subseteq \mathbb{Z} \times \mathbb{Z}$ with $A = \{(x, y) | y = 5x - 1\}$, $B = \{(x, y) | 3x - y = -7\}$. 3+3
Find $\overline{A \cup B}$.
(b) For any set A , prove that $A \times \phi = \phi \times A = \phi$.
2. (a) Let $A = \{1, 2, 3, 4, 6, 8, 12\}$. On A , define the partial ordering relation R 3+3
by xRy if and only if x divides y . Draw the Hasse diagram for R .
(b) Let $f, g : \mathbb{R} \rightarrow \mathbb{R}$, are defined by $f(x) = 3x + 7$ and $g(x) = x(x^2 - 1)$ for all $x \in \mathbb{R}$.
Verify that f is one-one but g is not.
3. Use mathematical induction to prove that $1^2 + 2^2 + 3^2 + \dots + n^2 = \frac{n(n+1)(2n+1)}{6}$ 6
where $n \in \mathbb{Z}^+$.
4. Prove that $R \rightarrow S$ is a valid conclusion from the premises $P \rightarrow (Q \rightarrow S)$, $\neg R \vee P$, 6
and Q .
5. A collection of 10 electric bulbs contain 3 defective ones. 2+2+2
(i) In how many ways can a sample of 4 bulbs be selected ?
(ii) In how many ways can a sample of four bulbs be selected which contain
2 good ones and 2 defective ones ?
(iii) In how many ways can the sample of 4 bulbs be selected so that either
the sample contains 3 good ones and 1 defective ones or 1 good and
3 defective ones ?
6. Show that the open interval $(0, 1)$ is uncountable. 6
7. Prove that every set of 37 positive integers contain at least two integers that 6
leave the same remainders upon division by 36.

P.T.O.

Nmu Mathematics Question Paper

WJ Hussar



Nmu Mathematics Question Paper:

Mathematics Teaching in the Middle School, 2009-02 Canadian Journal of Mathematics, 1988-12 Recursion Theory Anil Nerode, Richard A. Shore, 1985 National E-mail and Fax Directory, 1998 *Genetically Modified Organisms, Grade 7* Carla C. Johnson, Janet B. Walton, Erin E. Peters-Burton, 2022-05-24 What if you could challenge your seventh graders to become informed citizens by analyzing real world implications of GMOs With this volume in the STEM Road Map Curriculum Series you can Genetically Modified Organisms outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary five lesson module uses project and problem based learning to help students investigate the opportunities and challenges of GMO production and consumption Working in teams students will create a documentary communicating the health social and economic aspects of GMO production and consumption To support this goal students will do the following Use the Internet and other sources to build knowledge of an issue and recognize and value stakeholders and their viewpoints in an issue Explore the relationship among local state and federal legislation related to GMOs Understand the role of cost benefit analysis in making informed economic decisions Develop skills to evaluate arguments create and communicate individual understanding and perspectives Gain a deeper understanding that structure and function are related by examining plants and how the environment and genetics influences structure Gain a better understanding of what tools humans have developed to genetically alter organisms for human benefit The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Genetically Modified Organisms can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach MAA Notes, 1983 **Ammunition**, 1944

Innovations in Teaching Abstract Algebra Allen C. Hibbard, Ellen J. Maycock, 2002 Intellectual Mastery of Nature: The torch of mathematics, 1800-1870 Christa Jungnickel, 1986 *New Serial Titles*, 1988 A union list of serials commencing publication after Dec 31 1949 **Petals of Dust** Kher Jagatsingh, 1981 Resources in Education, 1987 **National Union Catalog**, 1983 Includes entries for maps and atlases **LOEX News**, 1999 *Proceedings*, 1972 **World Who's who in Science** Allen G. Debus, 1968 **National Union Catalog, 1982**, 1983 The Economist, 1962-03 *Computers and Automation*, 1960 June issues 1955 contain Computer directory 1955 *The National Union Catalog, Pre-1956 Imprints*, 1968

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