SECTION A
Section - A consists of Multiple Choice type questions of 1 mark each.

1. The ratio of *HCF* to *LCM* of the least composite number and the least prime number is :

(a) 1:2

(b) 2: 1

(c) 1: 1

(d) 1: 3

Answer: (a)

Explanation:

The least composite number is 4, which has prime factors 2 and 2. The least prime number is 2.

The HCF (Highest Common Factor) of 4 and 2 is 2, because that is the largest number that divides both 4 and 2.

The LCM (Least Common Multiple) of 4 and 2 is 4, because that is the smallest number that is a multiple of both 4 and 2.

Therefore, the ratio of HCF to LCM of 4 and 2 is 2:4 or 1:2.

So the answer is (a) 1:2.

2. The roots of the equation $x^2 + 3x - 10 = 0$ are :

(a) $2, - 5$

(b) $- 2, 5$

(c) $2, 5$

(d) $- 2, - 5$

Answer: (a)

Explanation:

Given, $x^2 + 3x - 10 = 0$

$$x^2 + 5x - 2x - 10 = 0$$
$$x(x + 5) - 2(x + 5) = 0$$
$$(x + 5)(x - 2) = 0$$

$x = 2, - 5$ are the roots of the given equation.

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Matthew Eaton,Dennis O'Hara,Michael T. Ross

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Partial Differential Equations in Ecology Sergei Petrovski,2021-03-17 Partial differential equations PDEs have been used in theoretical ecology research for more than eighty years Nowadays along with a variety of different mathematical techniques they remain as an efficient widely used modelling framework as a matter of fact the range of PDE applications has even become broader This volume presents a collection of case studies where applications range from bacterial systems to population dynamics of human riots **The Ecology of Hedgerows and Field Margins** John W. Dover,2019-02-01 Hedges and field margins are important wildlife habitats and deliver a range of ecosystem services and their value is increasingly recognised by ecologists This book reviews and assesses the current state of research on hedgerows and associated field margins With the intensification of agriculture in the second half of the last century field sizes were increased by amalgamation and the rooting out of hedges synthetic pesticide and inorganic fertiliser use increased and traditional methods of hedge management were largely abandoned The book is split into two main sections The first deals with definitions current and historic management the impact of pesticides the decline in hedge stock and condition and new approaches to hedge evaluation using remote sensing techniques The second section explores the pollination and biological pest control benefits provided by hedges and field margins and examines the ecology of some of the major groups that are found in hedgerows and field margins butterflies and moths carabid beetles mammals and birds A case study on birds and invertebrates from a research farm managed as a commercial enterprise but which attempts to farm with wildlife in mind brings these themes together A final chapter introduces the neglected area of hedges in the urban environment The book will be of great interest to advanced students researchers and professionals in ecology agriculture wildlife conservation natural history landscape environmental and land management *Papers on Mathematical Ecology* A. Csetényi,1986 *Integral Ecology for a More Sustainable World* Matthew Eaton,Dennis O'Hara,Michael T. Ross,2019-10-25 Laudato Si insists on a revolutionary human response to the public challenges of our time concerning the ecological crisis The volume takes up the revolutionary spirit of Pope Francis and speaks to the economic technological political educational and religious changes needed to overcome the fragile relationships between humans and Earth This volume identifies various systemic factors that have produced the anthropogenic ecological crisis that threatens the planet and uses the ethical vision of Laudato Si to promote practical responses that foster fundamental changes in humanity s relationships with Earth and each other The essays address not only the immediate behavioral changes needed in individual human lives but also the deeper societal changes required if human communities are to live sustainable lives within Earth s integral ecology Thus this volume intentionally focuses on a plurality of cultural contexts and proposes solutions to problems encountered in a variety of global contexts Accordingly the contributors to this volume are scholars from a breadth of interdisciplinary and cultural backgrounds each exploring an ethical theme from the encyclical and proposing systemic changes to address deeply

entrenched injustices Collectively their essays examine the social political economic gender scientific technological educational and spiritual challenges of our time as these relate to the ecological crisis   *Papers on Mathematical Ecology* ,1986   **Encyclopedia of Ecology** Brian D. Fath,2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes   *Impacts of Global Warming on Ecology and Meteorology and the Related Physical Mechanisms, Evaluation and Prediction* Gui-Quan Sun,Yongping Wu,Bai-Lian Li,Yipeng Guo,2022-12-05   *Oswaal CBSE Question Bank Class 10 English, Science, Social Science & Maths Standard (Set of 4 Books) Chapterwise and Topicwise Solved Papers For Board Exams 2025* Oswaal Editorial Board,2024-02-15 Description of the product 100% Updated Syllabus Fully Solved Board Papers We ve got you covered with the latest and 100% updated curriculum Timed Revision with Topic wise Revision Notes Smart Mind Maps Mnemonics Study smart not hard Extensive Practice with 2000 Questions Board Marking Scheme Answers Yep you read that right 2000 chances to become a champ Concept Clarity with 500 Concepts 50 Concept Videos Learn the cool way with videos and mind blowing concepts NEP 2020 Compliance with Competency Based Questions Because we re on the cutting edge of the coolest educational trends   **Ecology Abstracts** ,1997 Coverage 1982 current updated monthly This database covers current ecology research across a wide range of disciplines reflecting recent advances in light of growing evidence regarding global environmental change and destruction Major ares of subject coverage include Algae lichens Animals Annelids Aquatic ecosystems Arachnids Arid zones Birds Brackish water Bryophytes pteridophytes Coastal ecosystems Conifers Conservation Control Crustaceans Ecosyst em studies Fungi Grasses Grasslands High altitude environments Human ecology Insects Legumes Mammals Management Microorganisms Molluscs Nematodes Paleo ecology Plants Pollution studies Reptiles River basins Soil TAiga tundra Terrestrial ecosystems Vertebrates Wetlands Woodlands   Ecology of a Managed Terrestrial Landscape David Euler,Ajith H. Perera,Ian Douglas Thompson,2000 An examination of the big picture of ecological patterns and processes through a detailed case study of the vast managed forest region of Ontario The book synthesizes ecological

landscape knowledge explores gaps in understanding and offers suggestions for future directions (Japan),1900   Ecology ,1993   UMAP Modules ,1982   *Complex Ecology* Bernard C. Patten,Sven Erik Jørgensen,1995 For systems ecologists modelers environmental engineers and theoretical ecologists who are interested in mathematics applied to ecology An advanced and up to date treatment of ecological complexity emphasizing the need for holistic systems approaches The book provides a compendium of technically oriented systems approaches to complexity at all levels of ecological organization presenting microscopic and macroscopic views descriptions of modeling approaches feedback and stability and network approaches to trophic dynamics and optimality issues   A Compendium of University Entrance Requirements for First Degree Courses in the United Kingdom Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom,1984   Graduate Studies ,1993   **Applied Ecology Abstracts** ,1979   Australian Books in Print ,1992   *British Books in Print* ,1979   **The Teaching of Ecology** British Ecological Society,1967

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