### SUBJECT: MATHEMATICS CLASS: IX

MAX. MARKS: 80 DURATION: 3 HRS

### General Instruction:

(i) All questions are compulsory.

(ii) This question paper contains 30 questions divided into four Sections A, B, C and D.

(iii) Section A comprises of 6 questions of 1 mark each. Section B comprises of 6 questions of 2 marks each. Section C comprises of 10 questions of 3 marks each and Section D comprises of 8 questions of 4 marks each.

(iv) There is no overall choice. However, an internal choice has been provided in two questions in 1 mark each, two questions in 2 marks each, four questions of 3 marks each and three questions of 4 marks each. You have to attempt only one of the alternatives in all such questions. (v) Use of Calculators is not permitted

## SECTION - A Questions 1 to 6 carry 1 mark each.

Find the total surface area of a hemisphere of radius 10 cm. (Use π = 3.14)

Find the height of cone, if its slant height is 34 cm and base diameter is 32 cm.

- If the point (3, 4) lies on the graph of the equation 3y = ax + 7, find the value of a.
- 3. Simplify:  $\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$

OB

Find the value of  $\sqrt{3^{-2}}$ .

- 4. In a bag, there are 100 bulbs out of which 30 are defective ones. A bulb is taken out of the bag at random. Find the probability of the selected bulb to be a good one.
- If its perimeter of an equilateral triangle is 180 cm, what will be its area?
- In the below figure. ∠ABC = 69°. ∠ACB = 31°. find ∠BDC.



### SECTION – B

### Questions 6 to 12 carry 2 marks each.

7. A river 3 m deep and 40 m wide is flowing at the rate of 2 km per hour. How much water will fall into the sea in a minute?

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perspectives This knowledge practice nexus is examined across mathematics and science teaching traversing schooling phases and countries with an emphasis on contexts of disadvantage These features push the boundaries of research into teachers content knowledge The book s combination of mathematics and science enriches each discipline for the reader and contributes to our understandings of student attainment by examining the nature of specialised content knowledge needed for competent teaching within and across the two domains Exploring Mathematics and Science Teachers Knowledge will be key reading for researchers doctoral students and postgraduates with a focus on Mathematics Science and teacher Oswaal CBSE 10 Previous Years' Solved Papers, Yearwise (2013-2023) Science (PCM) English Core, Physics, Chemistry & Mathematics Class 12 Book (For 2024 Exam) Oswaal Editorial Board, 2023-06-06 Description of the product 100% Updated with the Latest CBSE Board Paper 2023 Valuable Exam Insights with Out of Syllabus Questions highlighted 100% Exam readiness with Commonly Made Errors and Answering Tips Concept Clarity with Topper's and Board Marking Scheme Answers Crisp revision with Mind Maps and Revision Notes **Teaching and Learning Patterns in School Mathematics** Ferdinand Rivera, 2014-07-08 This book synthesizes research findings on patterns in the last twenty years or so in order to argue for a theory of graded representations in pattern generalization While research results drawn from investigations conducted with different age level groups have sufficiently demonstrated varying shifts in structural awareness and competence which influence the eventual shape of an intended generalization such shifts however are not necessarily permanent due to other pertinent factors such as the complexity of patterning tasks The book proposes an alternative view of pattern generalization that is one that is not about shifts or transition phases but graded depending on individual experiences with target patterns The theory of graded representations involving pattern generalization offers a much more robust understanding of differences in patterning competence since it is sensitive to varying levels of entry into generalization Empirical evidence will be provided to demonstrate this alternative view which is drawn from the author s longitudinal work with elementary and middle school children including several investigations conducted with preservice elementary majors Two chapters of the book will be devoted to extending pattern generalization activity to arithmetic and algebraic learning of concepts and processes The concluding chapter addresses the pedagogical significance of pattern learning in the school mathematics curriculum <u>Using ICT in Primary Mathematics</u> Bob Fox, Ann Montague-Smith, Sarah Wilkes, 2014-03-05 First Published in 2000 Using combined first hand experiences as class teachers in the advisory service and as teacher trainers this book was written to help teachers and students in training to consider some of the issues that surround the use of Information and Communications Technology ICT in today s and tomorrow s classrooms It explores the uses of ICT in mathematics teaching and learning past and present and provides a rationale for its use within and beyond the daily mathematics lesson and suggest some innovative ways forward Grade 7 English-simpleNeasyBook WAGmob, 2014-04-25 WAGmob An eBook and app platform for learning teaching and training WAGmob brings you

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