

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.

1. Find the total surface area of a hemisphere of radius 10 cm. (Use  $\pi = 3.14$ )  
OR  
Find the height of cone, if its slant height is 34 cm and base diameter is 32 cm.
2. If the point (3, 4) lies on the graph of the equation  $3y = ax + 7$ , find the value of a.
3. Simplify:  $\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$

OR

- 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.
  5. If its perimeter of an equilateral triangle is 180 cm, what will be its area?
  6. In the below figure,  $\angle ABC = 69^\circ$ ,  $\angle ACB = 31^\circ$ , find  $\angle BDC$ .

**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?

# Grade9 2014 Maths Paper Of Final Exam

**Jiyuan Zhang**



## **Grade9 2014 Maths Paper Of Final Exam:**

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**Much Promise:**  
**Successful Schools in England** Barnaby Lenon, 2017-04-24 Barnaby Lenon a former schoolmaster and headmaster who is chair of the Independent Schools Council takes an in depth look at the elements that make up a successful school He examines leading and latest research on school leadership and management looks at how teachers pupils parents and governors can achieve results and puts the spotlight on subjects exam systems and social mobility For his research he visited a number of schools that are achieving outstanding results John Perryn Primary School Acton Tollgate Primary School Newham King Solomon Academy Marylebone Burlington Danes Academy Hammersmith West London Free School Hammersmith Michaela Community School Wembley St Mary Magdalene Academy Islington Dixons Kings Academy Bradford Tauheedul Boys School Blackburn London Academy of Excellence Newham and Brighton College His analysis of their innovations and achievements provides an insight into some of England s most successful schools *Commonwealth Universities Yearbook* T. Craig, Hugh W. Springer, 1979

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