

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?

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add this url to your eclipse installation to reach this solution s update site emf compare brings model comparison to the emf framework this tool provides generic support for any kind of metamodel in order to compare and merge models the objectives of this component are to provide a stable and efficient generic implementation of model

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emf the core emf framework includes a meta model.ecore for describing models and runtime support for the models including change notification persistence support with default xmi serialization and a very efficient reflective api for manipulating emf objects generically

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the cdo connected data objects model repository is a distributed shared model framework for emf models and meta models cdo is also a model runtime environment with a focus on orthogonal aspects like model scalability transactionality persistence distribution queries and more cdo has a 3 tier architecture supporting emf based client

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the eclipse modeling framework project is a modeling framework and code generation facility for building tools and other applications based on a structured data model from a model specification described in xmi emf provides tools and runtime support to produce a set of java classes for the model along with a set of adapter classes that

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