

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?

# Final Examination Mathematic Paper1 For Grade 9 2014

**David Baud**



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web se préparer au métier de chercheur dans les domaines de la chimie inorganique la chimie physique et la chimie du solide s informer et se documenter sur une problématique en sachant utiliser des outils de recherche et les bases de données en particulier bibliographiques

*chimie inorganique concept classification et exemples* - Sep 08 2023

web chimie inorganique nous expliquons ce qu est la chimie inorganique aussi comment les composés inorganiques sont classés et quelques exemples la chimie inorganique n est pas basée sur des composés avec des liaisons carbone hydrogène qu est ce que la chimie inorganique