

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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Jiyuan Zhang



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Analytics Virtual and Augmented Reality and remote and virtual labs on different education systems both from the educational and the psychological perspective The scope is twofold on the one hand examining the use of these advanced technologies in learning and teaching activities and on the other hand teaching students about these technologies and understanding the impact of including them in new education policies and curricula including teaching of AI data science analytics and the ethical implications of data The Research Topic seeks to provide insightful and thought provoking perspectives on how technology is being utilized to enhance the learning experience for students of all ages Both in higher education and K12 education and their transition to higher education By gathering experts in psychology education and technology this Research Topic aims to present research findings and best practices and to stimulate discussions on the role of technology in shaping the future of education The ultimate objective is to inspire innovation and to improve the education of future generations through advanced technologies

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