

## Comments of Examiners

- (a) Most of the candidates were unable to proceed with the solution for a vector based geometrical question. Vector symbols were not used by many candidates. Some candidates did not show the arrow in the diagram drawn by them. The dot product of vectors was found incorrectly by some candidates.
- (b) The concept of scalar triple product was clear to most of the candidates but some wrote dot product first and then cross product, which was incorrect. Some wrote  $[a \ b \ c]$  in determinant form and made mistakes in calculation.

*Suggestions for teachers*

- Dot product and cross product should be explained well to students. Students must be told to give proper direction to the vectors.
- Vector algebra in totality needs to be explained well to students, especially the properties of scalar triple product. Combination of dot and cross product in scalar triple product needs thorough understanding as well as rigorous practice.

## MARKING SCHEME

## Question 10.

- (a) Let O be the centre of the circle and AB be the diameter. C is a point on the circumference. Take O as the origin and let  $\vec{OA} = \vec{a}$  and  $\vec{OC} = \vec{c}$

$$\text{Therefore, } \vec{OB} = -\vec{a}$$

$$\vec{CA} = \vec{OA} - \vec{OC} = \vec{a} - \vec{c}$$

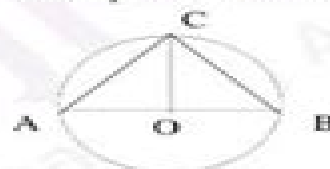
$$\vec{CB} = \vec{OB} - \vec{OC} = -\vec{a} - \vec{c}$$

$$\vec{CA} \cdot \vec{CB} = (\vec{a} - \vec{c}) \cdot (-\vec{a} - \vec{c})$$

$$= -\vec{a} \cdot \vec{a} - \vec{a} \cdot \vec{c} + \vec{c} \cdot \vec{a} + \vec{c} \cdot \vec{c}$$

$$= -|\vec{a}|^2 + |\vec{c}|^2 = -r^2 + r^2 = 0, \text{ Where } r \text{ is radius}$$

Therefore, angle ACB is a right angle.



- (b) The volume of the parallelepiped is:

$$\begin{vmatrix} 2 & -3 & -4 \\ 1 & 2 & -1 \\ 3 & 1 & 2 \end{vmatrix}$$

$$= 2 \begin{vmatrix} 2 & -1 \\ 1 & 2 \end{vmatrix} + 3 \begin{vmatrix} 1 & -1 \\ 3 & 2 \end{vmatrix} - 4 \begin{vmatrix} 1 & 2 \\ 3 & 1 \end{vmatrix}$$

$$= 2 \cdot 5 + 3 \cdot 5 - 4(-5)$$

$$= 2 \cdot 5 + 3 \cdot 5 - 4(-5)$$

$$= 45 \text{ cubic units}$$

# Isc 2015 Maths Guide

**Terry C. Jones**



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## **Table of Contents Isc 2015 Maths Guide**

1. Understanding the eBook Isc 2015 Maths Guide
  - The Rise of Digital Reading Isc 2015 Maths Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Isc 2015 Maths Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Isc 2015 Maths Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Isc 2015 Maths Guide
  - Personalized Recommendations
  - Isc 2015 Maths Guide User Reviews and Ratings
  - Isc 2015 Maths Guide and Bestseller Lists
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  - Isc 2015 Maths Guide eBook Subscription Services
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  - Adjustable Fonts and Text Sizes of Isc 2015 Maths Guide
  - Highlighting and Note-Taking Isc 2015 Maths Guide
  - Interactive Elements Isc 2015 Maths Guide
- 8. Staying Engaged with Isc 2015 Maths Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Isc 2015 Maths Guide
- 9. Balancing eBooks and Physical Books Isc 2015 Maths Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Isc 2015 Maths Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Isc 2015 Maths Guide
  - Setting Reading Goals Isc 2015 Maths Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Isc 2015 Maths Guide
  - Fact-Checking eBook Content of Isc 2015 Maths Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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