Jee Advance 2013   Mathematics Paper- II

PART III - MATHEMATICS

SECTION - 1 : (One or more options correct Type)

This section contains **8 multiple choice questions**. Each question has four choices (A), (B), (C) and (D), out of which **ONE or MORE** are correct.

41. In a triangle PQR, P is the largest angle and $\cos P = 1/3$. Further the incircle of the triangle touches the sides PQ, QR and RP at N, L and M respectively, such that the lengths of PN, QL and RM are consecutive even integers. Then possible length(s) of the side(s) of the triangle is(are)

(A) 16   (B) 18   (C) 24   (D) 22

41. **(BD)** $PM = 2k - 2$, $RL = 2k + 2$, $QN = 2k$
$PQ = 4k - 2$, $QR = 4k + 2$, $RP = 4k$

$$\cos P = \frac{1}{3} = \frac{(4k-2)^2 + 16k^2 - (4k-2)^2}{2(4k-2).4k} \quad \Rightarrow \quad k = 0.5$$

For $k = 0$, PQ is negative.
For $k = 5$, sides 18, 20, 22 units.

42. Two lines $L_1 : x = 5, \dfrac{y}{3-\alpha} = \dfrac{z}{-2}$ and $L_2 : x = \alpha, \dfrac{y}{-1} = \dfrac{z}{2-\alpha}$ are coplanar. Then α can take value(s)

(A) 1   (B) 2   (C) 3   (D) 4

42. **(AD)** Point on first line can be considered as $(5, 3 - \alpha, -2)$
Point on second line : $(\alpha, -1, 2 - \alpha)$

$$\begin{vmatrix} 5-\alpha & 4-\alpha & \alpha-4 \\ 0 & 3-\alpha & -2 \\ 0 & -1 & 2-\alpha \end{vmatrix} = 0 \quad \Rightarrow \quad \begin{vmatrix} 5-\alpha & 0 & \alpha-4 \\ 0 & 1-\alpha & -2 \\ 0 & 1-\alpha & 2-\alpha \end{vmatrix} = 0$$

$$\Rightarrow (1-\alpha)\begin{vmatrix} 5-\alpha & 0 & \alpha-4 \\ 0 & 1 & -2 \\ 0 & 1 & 2-\alpha \end{vmatrix} = 0 \quad \Rightarrow \quad (1-\alpha)[(5-\alpha)(4-\alpha)] = 0$$

$$\Rightarrow \quad \alpha = 1, 4, 5.$$

2013 Maths Paper Sgcse

Karen Morrison,Nick Hamshaw

2013 Maths Paper Sgcse:

    <u>Cambridge IGCSE® Mathematics Core and Extended Coursebook</u> Karen Morrison,Nick Hamshaw,2018-03-15 This Cambridge IGCSE Mathematics Core and Extended series has been authored to meet the requirements of the Cambridge IGCSE Mathematics syllabus 0580 0980 for first examination from 2020 This second edition of Cambridge IGCSE Mathematics Core and Extended Coursebook offers complete coverage of the Cambridge IGCSE Mathematics 0580 0980 syllabus It contains detailed explanations and clear worked examples followed by practice exercises to allow students to consolidate the required mathematical skills The coursebook offers opportunities for checking prior knowledge before starting a new chapter and testing knowledge with end of chapter and exam practice exercises Core and Extended materials are presented within the same book and are clearly signposted to allow students to see the range of mathematics required for study at this level Answers are at the back of the book   *Cambridge IGCSE® and O Level Additional Mathematics Coursebook* Sue Pemberton,2018-02-22 These resources have been created for the Cambridge IGCSE and O Level Additional Mathematics syllabuses 0606 4037 for first examination from 2020 This coursebook gives clear explanations of new mathematical concepts followed by exercises This allows students to practise the skills required and gain the confidence to apply them Classroom discussion exercises and extra challenge questions have been designed to deepen students understanding and stimulate interest in Mathematics Answers to coursebook questions are in the back of the book

    Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM Karen Morrison,Nick Hamshaw,2015-12-03 Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015   **Cambridge IGCSE and O Level Additional Mathematics** Val Hanrahan,Jeanette Powell,2018-07-09 Exam board Cambridge Assessment International Education Level IGCSE Subject Mathematics First teaching September 2018 First exams Summer 2020 This title is endorsed by Cambridge Assessment International Education to support the full syllabus for last examination in 2024 Confidently select and apply the appropriate mathematical techniques to solve problems ensure full coverage of the Cambridge IGCSE and O Level Additional Mathematics syllabuses 0606 4037 with a comprehensive Student s Book written by an accomplished team of authors and examiners Fully engage with mathematical concepts using discussion points to prompt deeper thinking Apply mathematical techniques to solve problems through a variety of activities Encourage full understanding of mathematical principles with bubble text providing additional explanations Develop mathematical techniques with plenty of opportunities for practice Answers are in the Boost Core Subscription Available in the series Student Textbook ISBN 9781510421646 Workbook ISBN 9781510421653 Student Book Boost eBook ISBN 9781398333802 Boost Core Subscription ISBN 9781398340992   **The Monitor** ,2008-06

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SUNKARA,2019-05-13 CAMBRIDGE IGCSE MATHEMATICS 0580 FULLY SOLVED PAST PAPER 2 4 EXTENDED VARIANT 2 VERY USEFUL FOR O LEVEL STUDENTS OF ALL VARIANTS DETAILED AND STEP BY STEP SOLUTIONS VERY HELPFUL TOOL FOR REVISION CONTAINS PAPERS FROM 2011 TO 2019 JUNE 2019 INCLUDED **IGCSE for Edexcel Maths Book 1** B. V. Hony,I. A. Potts, Oxford Revise Naomi Bartholomew-Millar,Paul Hunt,Victoria Trumper,2023-07-17 Oxford Revise Edexcel GCSE Foundation Maths provides you with all the key information that you need to revise and covers the full specification Each topic in your Edexcel Maths course is clearly covered with retrieval questions to help you check that you ve retained what you re learning We understand the concerns you might have about the amount of knowledge you need to revise for Maths and to recall and select the right strategies to answer questions in your exams By working through the Knowledge Retrieval Practice sections you will use proven ways to revise check and recall so that what you revise sticks in your memory Knowledge Organisers cover the key information that you need to revise with tailored content for the Edexcel Foundation paper for all topics including ratio proportion and measures compound measures Worked examples illustrate concepts and help you to understand how to work through and answer questions An online glossary helps you to learn the definitions to key terms Retrieval questions empower you to check that you have retained the knowledge helping you to combat the forgetting curve before you move onto exam practice Exam style Practice gives you lots of opportunities to practise the type of questions you will face in your exams with all the answers to practice questions available online plus a mark scheme **Edexcel Gcse Mathematics Practice Book** Pearson Education,1998-12-31 **Mathematics: IGCSE** Karen Morrison,2002-06-27 Written by an experienced mathematics teacher Karen Morrison the text is enquiry based designed for face to face learning and has an interactive approach to the subject Case studies and questions are used to help students understand the implications of the topic CAMBRIDGE IGCSE MATHEMATICS [0580] FULLY SOLVED PAST PAPER 1 and 3 - CORE S. A. I. Gopal SUNKARA,2019-06-08 CAMBRIDGE IGCSE MATHEMATICS 0580 FULLY SOLVED PAST PAPER 1 3 CORE VARIANT 2 VERY USEFUL FOR O LEVEL STUDENTS OF ALL VARIANTS DETAILED AND STEP BY STEP SOLUTIONS VERY HELPFUL TOOL FOR REVISION CONTAINS PAPERS FROM 2011 TO 2020 JUNE 2020 PAPER INCLUDED *O-level Additional Mathematics Challenging Drill Questions (Yellowreef)* Thomas Bond,Chris Hughes,2014-07-18 updated with new questions from top schools colleges from 2003 2013 complete and true encyclopedia of all question types exposes surprise trick questions complete answer keys most efficient method of learning hence saves time arrange from easy to hard by topics and question types to facilitate easy absorption advanced trade book complete and concise eBook editions available also suitable for Cambridge GCE OL Cambridge IGCSE Cambridge IOL Books available for other subjects including Physics Chemistry Biology Mathematics Economics English Primary level Secondary level GCE O level GCE A level iGCSE Cambridge A level Hong Kong DSE visit www yellowreef com for sample chapters and more **Cambridge IGCSE(tm) Maths Teacher Guide (Collins Cambridge IGCSE(tm))** Chris Pearce,2015-10-20 Full

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