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<b>Thursday 25 May 2023</b>							
Afternoon (Time: 1 hour 30 minutes)				Paper reference		<b>9FM0/01</b>	
<b>Further Mathematics</b> <b>Advanced</b> <b>PAPER 1: Core Pure Mathematics 1</b>							
<b>You must have:</b> Mathematical Formulae and Statistical Tables (Green), calculator						Total Marks	

Candidates may use any calculator permitted by Pearson regulations. Calculators must not have the facility for algebraic manipulation, differentiation and integration, or have retrievable mathematical formulae stored in them.

#### Instructions

- Use **black** ink or ball-point pen.
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B).
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions and ensure that your answers to parts of questions are clearly labelled.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*
- You should show sufficient working to make your methods clear. Answers without working may not gain full credit.
- Inexact answers should be given to three significant figures unless otherwise stated.

#### Information

- A booklet 'Mathematical Formulae and Statistical Tables' is provided.
- There are 8 questions in this question paper. The total mark for this paper is 75.
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*

#### Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ➤



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## **Table of Contents May 2013 6683 Edexcel Mark Scheme**

1. Understanding the eBook May 2013 6683 Edexcel Mark Scheme
  - The Rise of Digital Reading May 2013 6683 Edexcel Mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying May 2013 6683 Edexcel Mark Scheme
  - 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 May 2013 6683 Edexcel Mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from May 2013 6683 Edexcel Mark Scheme
  - Personalized Recommendations
  - May 2013 6683 Edexcel Mark Scheme User Reviews and Ratings
  - May 2013 6683 Edexcel Mark Scheme and Bestseller Lists
5. Accessing May 2013 6683 Edexcel Mark Scheme Free and Paid eBooks
  - May 2013 6683 Edexcel Mark Scheme Public Domain eBooks
  - May 2013 6683 Edexcel Mark Scheme eBook Subscription Services
  - May 2013 6683 Edexcel Mark Scheme Budget-Friendly Options

6. Navigating May 2013 6683 Edexcel Mark Scheme eBook Formats
  - ePub, PDF, MOBI, and More
  - May 2013 6683 Edexcel Mark Scheme Compatibility with Devices
  - May 2013 6683 Edexcel Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of May 2013 6683 Edexcel Mark Scheme
  - Highlighting and Note-Taking May 2013 6683 Edexcel Mark Scheme
  - Interactive Elements May 2013 6683 Edexcel Mark Scheme
8. Staying Engaged with May 2013 6683 Edexcel Mark Scheme
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers May 2013 6683 Edexcel Mark Scheme
9. Balancing eBooks and Physical Books May 2013 6683 Edexcel Mark Scheme
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection May 2013 6683 Edexcel Mark Scheme
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine May 2013 6683 Edexcel Mark Scheme
  - Setting Reading Goals May 2013 6683 Edexcel Mark Scheme
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of May 2013 6683 Edexcel Mark Scheme
  - Fact-Checking eBook Content of May 2013 6683 Edexcel Mark Scheme
  - 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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web however the electrical and electronic manufacturers association of canada has suggested that all purchasers of pvc insulated jacketed products be advised of the following non metallic coverings of electrical cables

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web note allowable ampacities are for general use as specified by canadian electrical code 2002 table 2 based on not more than 3 copper or aluminum conductors in raceway or cable

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web may 11 2023 table 57 referenced by rule 16 210 6 and table 5a provides allowable ampacities for class 2 copper conductors based on the size of the conductor and whether it is a single conductor in free air or not more than three copper conductors in raceway or cable and an ambient temperature of 30 degrees centigrade

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web table 1 and 3 ampacities for 2 to 4 single conductors table 5b tables 2 and 4 for more than 3 insulated conductors table 5c for vertical layers of insulated conductors in ventilated ladder type trays

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web feb 1 2021 by william bill burr rule 28 000 scope states that section 28 motors and generators is a supplementary or amendatory section of the code and provides additional and specific requirements for the installation wiring methods conductors protection and control of all motors and generators

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web may 1 2020 although as per 90 c column of table 2 the ampacity of such no 3 awg conductor is 115 a in accordance with provisions of rule 4 006 the ampacity of this conductor would be assigned based on 75 c column of

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web table 2 b maximum amperage for common wire sizes per canadian electrical code cec canada copper wire aluminum or copper size clad aluminum temperature 60 c 75 c 90 c 60 c 75 c 85 90 c rating 15 15 15 14 20 20 20 12 15 15 15 30 30 30 10 25 25 25 40 45 45 8 30 30 30 55 65 65 6 40 50 55 70 85 4 55 65

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web mar 14 2017 rule 4 004 ampacity of wires and cables contains 7 items each in subrules 1 and 2 covering scenario options each for copper and aluminum that need to be studied and chosen in addition there are 21 other factors in

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web for example a 10 awg 3c 600 v cable with xhhw singles would have an ampacity of 35 amps if using the 75 c column in nec 2014 table 310 15 b 16 allowable ampacities of insulated conductors rated up to and including 2000 volts 60 c through 90 c not more than three current carrying conductors in raceway cable