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Edexcel
Success through qualifications

Key skills communication Level 3 - Chip Technology

Tuesday 15 June 2004

Question Paper

YOU NEED

- This question paper
- The source booklet
- An answer booklet
- A pen with black or blue ink

You may **NOT** use a dictionary

Do **NOT** open this paper until you are told to do so by the supervisor

THERE ARE TWO PARTS TO THIS TEST

Part A (total 25 marks) consists of 4 short-answer questions

Part B (total 25 marks) consists of 1 extended-answer question

Total marks available: 50

Try to answer **ALL** the questions

YOU HAVE 1 HOUR 30 MINUTES INCLUDING READING TIME

INSTRUCTIONS

- Make sure your personal details are entered correctly in the answer booklet
- Read each question carefully
- If you use extra paper, make sure that it has your name and candidate number on it and is securely attached to your answer booklet
- At the end of the test, hand your answer booklet, the question paper, the source booklet and all notes to the supervisor

REMEMBER: YOU HAVE 1 HOUR 30 MINUTES TO FINISH THE TEST

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Part A - Short-answer questions

Read documents 1 to 3 and then answer the following questions

- Document 1 Based on 'Time to Upgrade', Hotline Magazine, Winter 2002
- Document 2 Based on 'Kevin Warwick Frequently Asked Questions and Photo Gallery', University of Reading website
- Document 3 Based on 'Technology to put Chips into Humans Draws Closer', ABC News website

In this section you will be given marks for:

- identifying accurately, and comparing, the lines of reasoning and main points from the documents
- synthesising the key information in a form that is relevant to the purpose

1 Using documents 1 and 2, briefly identify four ways in which silicon chip implants could benefit humans.

5 marks

2 Using information from all three documents, explain three potential problems with the use of implants and, in your own words, assess to what extent these are balanced by the potential benefits.

7 marks

3 Briefly identify the meaning of the images in documents 1 and 2. To what extent do these images support views on chip technology expressed in these documents?

6 marks

4 Using documents 1 and 2, identify three of Professor Warwick's stated goals. Explain in your own words the extent to which the material in all three documents supports these goals.

7 marks

Part A Total 25 marks

Please go on to the next page

Part B - Extended-answer questions

In this section you will be given marks for:

- using a format and style of writing that is appropriate to the purpose
 - organising the relevant information from all 3 documents clearly and coherently
 - using your own words and specialist vocabulary where appropriate
 - writing legibly using accurate spelling, punctuation and grammar
- 5** Write a structured report on chip technology and the human body for the Chief Executive of your local hospital trust. Your report should adopt a balanced approach to the subject and:
- explain the progress made to date
 - highlight any areas of controversy
 - comment on the future for chip technology and the human body

Your report should be based on information from the documents.

25 marks

End of test