



# **STAMFORD COLLEGE**

## **SCHOOL OF ENGINEERING**

### **FOUNDATION STUDIES IN ENGINEERING (ELECTRICAL AND ELECTRONIC)**

#### **KE007: INTRODUCTION TO IT**

**Date : 15 May 2007 (Tuesday)**

**Time : 9.30 am – 11.40 am**

**Duration: 2 hours + 10 minutes reading time**

#### **Instructions to Candidates**

1. SIX questions set.
2. Answer any FOUR questions.
3. All questions carry equal marks.
4. Maximum marks attainable: 100

Please ensure that this examination paper contains SIX questions on THREE printed pages before you start the examination.

Books, papers and other written materials are not allowed to be brought into the examination hall. A candidate who violates the examination rules of Stamford College or commits a malpractice will be disqualified from the examination.

Write your Examination Index Number on each page of your answer booklet.

Answer any **FOUR** questions

### Question 1

- (a) What is a Bit? (3 marks)
- (b) How does a series of bits represent data? (5 marks)
- (c) What is the difference between “dir/w” and “dir/w/a”. What do these DOS commands mean? (5 marks)
- (d) How does a processor complete a machine cycle? (6 marks)
- (d) What are the various types of memory? (6 marks)
- (Total = 25 marks)

### Question 2

- (a) List the four different types of Internet Explorer Application software. What is the main function of the Internet Explorer? (7 marks)
- (b) What are the functions of an Operating System (OS) and List three OS in the market? (8 marks)
- (c) What is the purpose of stand-alone utility programmes? Give two examples of these programs? (6 marks)
- (d) Why it is not a good suggestion to place a lot of icons on the desktop windows? (4 marks)
- (Total = 25 marks)

### Question 3

- (a) i) Sketch the layout of a PC motherboard system. Label the components at a minimum of disk drive :RAM slot, CPU, ROM, BIOS, system controller, PCI and AGP Slots. (2 marks)
- ii) Explain the role of each system listed in (a) (i) (13 marks)
- (b) What is input? (4 marks)
- (c) What is a biometric device? Give two examples of biometric devices. (6 marks)
- (Total = 25 marks)

**Question 4**

- (a) What are the components of a processor? (6 marks)
  
  - (b) How a serial port and a parallel port send or receive information from the computer? (7 marks)
  
  - (c) What kind of SYMPTOMS occurs if there is not enough free disk space to download your email messenger? How do you resolve this problem? (12 marks)
- (Total = 25 marks)

**Question 5**

- (a) What is the purpose of Defragmentation in the Microsoft Operating System? What do you understand about the Colour-coded Display Map in Defragmentation? (10 marks)
  
- (b) The table below shows the total profit of Quick & Easy shop

	A	B	C	D	E	F	G	H
1		<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>	<b>Saturday</b>	<b>Sunday</b>
2	<b>Week one</b>	\$4905	\$5445	\$1654	\$1786	\$2875	\$12432	\$15435
3	<b>Week two</b>	\$954	\$2353	\$6346	\$2534	\$7565	\$14966	\$18345
4	<b>Week three</b>	\$764	\$2379	\$8689	\$4657	\$5465	\$15098	\$15076
5	<b>Week four</b>	\$2533	\$8576	\$3567	\$9686	\$2335	\$12089	\$11956
6	<b>Week five</b>	\$3554	\$9466	\$4765	\$4575	\$9786	\$18345	\$10456
7	<b>Week six</b>	\$7446	\$3565	\$3577	\$8568	\$10334	\$10448	\$16749
8	<b>Week seven</b>	\$5867	\$1643	\$8423	\$2636	\$4067	\$9609	\$19456
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Use insert function in Microsoft Excel to figure out the following for seven weeks:

- i) Maximum profit for each individual week from Monday to Sunday
- ii) Minimum profit for each individual week from Monday to Sunday
- iii) SUM of all the seven weeks profit.
- iv) Comparison of total profit between Monday and Tuesday.
- v) If Quick & Easy has 38 staff, how much profit does each staff bring?

(15 marks)  
(Total = 25 marks)

**Question 6**

- (a) When creating a presentation by using power point, what kind of schemes and transitions should be used in order to enhance your presentation. (10 marks)

- (b) The office system is actually a system of applications, meaning that it is a collection of complementary programs that work together to help you accomplish what you need to accomplish. List any **THREE** tasks that can be done by the following application software:

- i) Microsoft Word 2003
- ii) Microsoft Excel 2003
- iii) Microsoft PowerPoint
- iv) Outlook Express.
- v) Microsoft Access

(15 marks)

(Total = 25 marks)

**– END OF PAPER –**