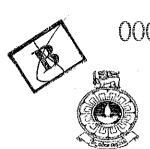
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THE OPEN UNIVERSITY OF SRI LANKA Faculty of Engineering Technology Department of Electrical & Computer Engineering



Bachelor of Software Engineering

Final Examination (2016/2017) ECJ4160 - Communication Skills for Engineers

Date: 07 th Novembe	r 2017 (Tuesday)	Time: $9:30 \text{ am} - 12:30 \text{ pm}$						
INDEX NO:								
Grammar and vocab	oulary							
Q1. Fill in the gaps of	the passage below with	a words from the	box.					
market airports verification hand scanner	genuine commercial law-enforcement control	Atlanta growing irregularities passengers	biometric hand-key applications					
application, thanks to	re the most widely depl their agencies. Since the symmetry agencies agen	² us xteen American s	e over the last 20 y	ears by				
key, a type of	ely used ⁷ ⁸ of people's han	which reads the	unique shape, size	and				

the
11 by more than 65,000 athletes, trainers and support staff. Now there are scores of other
12
Around the world, the
is preparing to equip all of its
(15 marks)
(15 marks)
Q2.
Write the correct form of the verbs given within brackets to complete the passage below.
In collaboration with Intel EM Limited, the Ministry of Education
(present) 20 schools in the country with 425 units of Intel-powered Classmate PCs yesterday at
Isurupaya, Battaramulla. This
taken by the Ministry to incite IT education in the island, following the government's recent
announcement that 2009 was the Year of English and Information Communication Technology
(ICT). The launch of these ambitious connectivity programmes3
(highlight) the skills and knowledge of school students in both rural and urban areas. "These plans
Education, "It ⁵ (offer) school communities a localised electronic
curriculum, internet accessibility, educational information sharing and promotes the use of emails
as a mode of effective communication," said Spokesperson for the Minister of Education.
He also ⁶ (state) that the daily reach of Lankan students for Internet
education websites through SchoolNet
number of 300, highlighting the distribution of IT knowledge through the connectivity programme.

Spokesperson for the Minister of Education also
schemes
realise educational reforms. He further said that the ministry
plans to promote a number of innovative projects during the year, such as, a 1000 additional
Computer Learning Centres, 800 schools with broadband connectivity under SchoolNet, relaunch
of the Teacher PC programme, Wi-Max and Wi-Fi wireless technologies with laptops for
deserving schools. Director of Secondary Education Modernization Project (SEMP),
¹¹ (assure) that the e-Sri Lanka initiative
(begin) with a national commitment to empower 60% of the nation's population with e-literacy by
the end of 2010. Along with increasing broadband penetration, especially in rural areas of the
island, the initiative
Computer laboratories, while
SchoolNet network and having a spread of about 200 websites in schools, as well as
rural computer learning centres.

(15 marks)

Q3.

Complete the following passage with the linking words/phrases given in the box below. You may use one word/phrase more than once.

while .	whereas	but also	as well as
not only	for instance	also	however

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Reading

Q4. Read the following text and answer the questions.

A jet aircraft technician peers into the bowels of a malfunctioning engine searching for the source of the problem. Finally, he **spots** it. Buried deep within the engine is the troublesome part. He will have to replace it. A complicated procedure, to say the least.

The technician goes to his high-powered workstation attached to a network and calls up the information on the part and the **replacement** procedure. An image of the part seated on the engine appears. In another window, an instructor demonstrates the repair procedure in full-motion video, while the technician listens through the audio channel as the instructor explains the process. Diagrams pop up to further clarify key points. In a text window, <u>he</u> reviews lists of necessary parts and tools he will need to complete the repair.

Still confused about an irregularity in this situation, the technician presses the help key and a real-time image of a live supervisor **pops up** in another window. Using the attached microphone, the technician discusses the particular problem with the supervisor, <u>who</u> directs more information onto the technician's screen. The technician points a video camera at the part in question to show the supervisor the specific situation.

Welcome to the world of high-end multimedia. The situation described above is not quite here yet, but most of the pieces already exist to make this scenario become a reality using a networked RS/6000 or other high-powered workstations.

Or, take this example of a **scenario** that is more likely today. A manager creates a detailed business presentation involving text, graphics, digitized photographic still images and tables of spreadsheet data, all combined in a single **compound** document. Before sending the document across the network to a colleague, the manager picks up the microphone and attaches an audio note to one of the tables, reminding <u>him</u> about something unusual or potentially confusing in the accompanying figures.

Using a networked RS/6000 equipped with the necessary audio boards and Bolt Baranek & Newman's (Cambridge, Mass.) BBN/Slate, a compound document/office application, this scenario is possible today. High-end multimedia is only in its **infancy**, but it is here. And over the next few years, industry observers expect multimedia development to accelerate as current barriers are overcome.

Multimedia is not a new **phenomenon**, although it is new to business computing. We live in a multimedia world. At home, we experience a variety of media through our television: full-motion video, still images, graphics, sound and animation. At school, we learn through systematic exposure to different media: the instructors' words, text, audio tapes, graphics and a variety of visuals and video.

Computers, however, have tended to be uni-medium. Traditionally, computers have been text-based, and this continues to be the primary format for business information. A few systems have provided sound or graphics, but until recently, the efforts were **rudimentary** compared to the **seamlessly** integrated, high quality visuals, video and audio we experience every evening at home.

1.	Which or	ne of these	sentences	best	summarises	the text	you i	iust read.	Tick the	correct	option:

a	Computers cannot yet match	the technological	achievements	of conventional
	audio systems.			()

- b Although multimedia computers are improving very fast, they do not yet reflect the multimedia world we are already living in today. (......)
- c Multimedia computer technology will soon be widely used in business, industry and the home. (......)

(3 marks)

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	ide if the following statements are true (T) or false (F) based on the above p 'F' against the statement.	passage. Write
a	The jet aircraft technician first locates the faulty part and labels it.	_()
b	The technician calls up his supervisor from his workstation to get informate faulty part and replacement procedure.	tion about the ()
c	The technician is able to display a computer-generated graphical represent supervisor on his screen.	eation of a
d	The supervisor looks at the faulty part to understand the problem.	()
e	This kind of repair procedure could well be possible before long.	()
f	Adding audio notes to computer-generated documents is yet to be a possib	oility. ()
g	The advancement of multimedia is unlikely to speed up in the next few year	ars. ()
h	You can buy multimedia business presentation applications today.	()
	Top quality multimedia is yet to be fully developed.	<u>(</u>)
į	Industrial experts expect multimedia development to speed up.	()
k	Multimedia has been in existence before the invention of the computer.	()
	In terms of quality, multimedia computer systems have only recently become with the media we already use.	me comparable
		(12 marks)

3. W -	hat do these words n	ean in t	he passage? Tick	the correct	option.				
1)	bowels								
	a. inside	b.	remotest part	c.	intestines				
2)	spots								
	a. detects	ь.	marks	c.	blotches				
3)	replacement								
	a. taking place	b.	substitution	c.	filling in				
4)	pops up								
	a. explodes	b.	goes off	c.	appears				
5)	scenario	,							
	a. situation	b.	surroundings	c.	backdrop				
6)	compound								
	a. synthesized	b.	complicated	c.	composition				
7)	infancy								
	a. babyhood				early stages				
8)	phenomenon		* . *	• • •					
,	a. sensation	b.	occurrence		c. spectacle				
9)	rudimentary								

	a.	basic	b.	primitive		c. deve	loped	***
10)	sea	mlessly	. •					a distribution of the second o
	a.	closely	b.	jointly		c. smoo	othly	
								(10 marks)
4. Wł	at do	these wo	ords refer to i	n the passage?				
	a.	he	(paragraph	2)				
						•••••••••		
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	b.	who	(paragraph	3)				
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	c.	him	(paragraph	5)				
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								(3 marks)

5. What kind of comparison does the writer make between computers, in terms of business information, and the television? Explain in your own words.
(2 marks)
4
Writing
Q5. You work for Smart Solutions Ltd., a company that provides software solutions to corporate clients. You are heading the project team appointed to develop a web publishing system for Lak Puvath, a web-based newspaper company. You have received a complaint from the client because of the delay in completing the project.
Write a reply to the client. In your letter
Write a reply to the client. In your letter explain why you cannot keep to the agreed date of completion, and
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(10 marks)

Q6. You are currently working as a QA Tester at ABC Co. Ltd. You see the following job advertisement in the advertiser's website and want to apply for it. You hold a BSc in Computer Science from the University of Colombo and your experience at ABC Co. counts three years.

Write a cover letter. Invent details as necessary, particularly in support of the job requirements.

QA Engineer

Millenium Technologies is a pioneer in providing world class software solutions to the finance industry. Our solutions are targeted to cater to the micro and macro level organisational and information needs of stock brokerage firms.

We have a long tradition of excellence in performance in the global financial service market. We enable our employees to bring out their best and grow with us, while creating a friendly working environment where intelligence and creativity get rewarded.

Requirements

- BSc in Computer Science or equivalent
- 2 years experience, preferably in a similar capacity
- Ability to handle multiple projects and meet deadlines
- Excellent communication and interpersonal skills
- Strong analytical and conceptual skills
- A good team player

Interested applicants may e-mail a detailed CV to careers@millenium.technologies.com,

addressed to Assistant HR Manager, Millenium Technologies, 15, Sirikotha Lane, Colombo 3.

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(20 marks)