

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I **SESSION 2019/2020**

COURSE NAME

COMPUTER TECHNOLOGY AND

MULTIMEDIA

COURSE CODE

: DAE 10403

PROGRAMME CODE : DAE

EXAMINATION DATE : DECEMBER 2019 / JANUARY 2020

DURATION

: 2 HOURS

INSTRUCTION

: ANSWERS ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF NINE (9) PAGES

PART A: MULTIPLE CHOICE QUESTIONS

(1 marks each)

- Which invention which replaced vacuum tube and made computer much smaller (2nd generation of modern computer)?
 - A. Random Access Memory (RAM)
 - B. Read Only Memory (ROM)
 - C. Transistor
 - D. Transformer
- Q2 This invention started the 3rd generation of modern computer
 - A. Random Access Memory (RAM)
 - B. Solid State Drive (SSD)
 - C. Integrated Circuit (IC)
 - D. Central Processing Unit (CPU)
- Q3 What are the four (4) stages of computing order?
 - A. Input, output, storage, processing
 - B. Input, processing, storage, output
 - C. Input, processing, output, storage
 - D. Input, storage, processing, output
- Q4 This invention started the 4th generation of modern computer.
 - A. Microprocessor
 - B. Solid State Drive (SSD)
 - C. Integrated Circuit (IC)
 - D. Central Processing Unit (CPU)
- Q5 What is the common material used in fabricating microprocessor?
 - A. Silicon
 - B. Copper
 - C. Aluminium
 - D. Quartz
- Q6 Which of these statements is TRUE about RAM
 - A. Volatile memory
 - B. Permanently store the data
 - C. Non-Volatile memory
 - D. Faster than cache memory
- Q7 Unit for decoding and execution of instructions rapidly, one after another is called
 - A. AL unit
 - B. Backup device
 - C. Keyboard
 - D. Control unit



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- Q8 Input and Output devices such as monitors, and keyboards are classified as
 - A. Arithmetic units
 - B. Control unit devices
 - C. Peripheral devices
 - D. Main store devices
- Q9 Magnetic tape unit is classic example of
 - A. Storage devices
 - B. Backup storage devices
 - C. Online devices
 - D. Offline devices
- Q10 Resolution of display card is
 - A. The number of pixels
 - B. The number of colours
 - C. The number of dots per inch
 - D. The amount of memory
- Q11 Which of the following are types of application software?
 - I Disk Management
 - II Spreadsheet
 - III Presentation Graphic
 - IV Word Processing
 - A. I. II & III
 - B. I, III & IV
 - C. II, III & IV
 - D. All of the above
- Q12 Wi-fi uses which which frequency?
 - A. 2.4 GHz
 - B. 5 GHz
 - C. Answer A and B
 - D. None above
- Q13 Below is advantages of Software Suites EXCEPT
 - A. Likely to require significant effort for stuff
 - B. Identical or very similar GUI
 - C. Less cost rather than buying individual package.
 - D. Designed to interface with each other



Q14	What	tic	Spre	adshee ⁻	12
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- A. Documents containing a group of numbers and other data organized into rows and columns.
- B. Documents containing a group of visual and image can be used as printed
- C. Documents containing written documents such letters, contracts, and manuscripts.
- D. Documents containing a group of video and image can be represented as live

Q15 All statements below are TRUE regarding utility programs EXCEPT

- A. Using certain utility program, user are able to restore operating system back to default installation
- B. Utility programs enable user to manage and maintain file in the computer
- C. Utility program is only stand alone software and built in program with operating system.
- D. Search tool is one of the utility program.

Q16 Computer on a network is uniquely identified by

- A. username
- B. IP Address
- C. login
- D. Computer Brand

Q17 Bluetooth is an example of

- A. Personal Area Network
- B. Wide area network
- C. Metropolitan area network
- D. Virtual private network

Q18 What is the use of Bridge in Network?

- A. to separate LANs
- B. to connect LANs
- C. To stop networking
- D. to control Network Speed

Q19 The _____ is the physical path over which a message travel

- A. Path
- B. Medium
- C. Protocol
- D. Route

Q20 Data communication system within a building or campus is____

- A. Wide area network
- B. Local Area Network
- C. Integrated Circuit (IC)
- D. Internet



Q21	A video co	onsists of a sequence of
	A. F	rames
	B. S	ignals
		ackets
	D. S	lots
Q22	Streaming	stored audio/video, files are compressed and stored on a
	A. []	P
	B. S	erver
	C. D	Oomain
	D. II	nternet
Q23	In Real Ti	me Interactive Audio Video, Jitter is introduced in real-time data by delay
Q23	between	
	A. F	rames
	B. L	ayers
	C. P	ixels
	D. P	ackets
Q24	In Real Ti	me Interactive Audio Video, data are stored in buffer at a possibly variable
	A. P	ixels
	B. P	ackets
	C. R	ates
	D. B	lytes
Q25	A smaller	version of an image is called a:
	A. c	lipart
		itmap
		ortable network graphic
	D. th	numbnail
Q26		controls text characteristics, background color and special effects, such
Q20		ing and bullet style.
		resentation
		naster
		now orter
~	Designed	to create a particular look, a contains colour schemes, slide and title
Q27	masters w	ith custom formatting and font's styles.
		emplate
		resentation
		ide
	D. ba	ackground TERBUKA

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Q28		is the special effect used to introduce each slide in a slide presentation.
	Α.	Animation
	В.	Bulleting
	C.	Transition
	D.	Mapping
Q29	Ascreen.	displays a list of commands and usually appears in the toolbar at the top of the
	A.	view
	В.	menu
	C.	kit
	D.	list
Q30		can be added to your presentation and then used to go to a variety of ns, for example, a web address, an e-mail address, a custom show or document, just
	to name	e a few.
	A.	menulink
	В.	hyperlink
	C.	toollink
	D.	slidelink
Q31		disk read the data by reflecting pulses of laser beams on the surface:
	A.	Magnetic disk
	В.	Hard disk
	C.	Floppy disk
	D.	Optical disk
Q32		parameter defines number of times electron beam scans screen in a second:
		Refresh rate
	В.	Data transfer rate
	C.	Pitch rate
	D.	All of above
Q33		is considered as semi-conductor memory, which is made up of static RAM:
	A.	Primary memory
	В.	Cache memory
	C.	Both A & B
	D.	None of above
Q34		is not the browser:
	A.	Internet Explorer
	В.	Opera
	C.	Mozilla Firefox
	D.	Google

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- Q35 TCP/IP is a:
 - A. Network Hardware
 - B. Network Software
 - C. Protocol
 - D. None above
- Q36 TCP/IP mainly used for:
 - A. File Transfer
 - B. Email
 - C. Remote Login Service
 - D. All above
- Q37 Which IP address is reserved for loop back or local host:
 - A. 192.168.0.0
 - B. 127.0.0.0
 - C. 127.0.0.1
 - D. None above
- Q38 Who provide internet connection:
 - A. TCP
 - B. ISP
 - C. FTP
 - D. HTTP
- Q39 URL stands for:
 - A. Universal Resource Locator
 - B. Uniform Resource Locator
 - C. Uniform Radio Locator
 - D. None of above
- Q40 In HTTPS 'S' is stands for:
 - A. Simple
 - B. Secured
 - C. Server
 - D. None of above



Q41 (a)

Define computer networks and network topology.

PART B : STRUCTURED QUESTIONS

			3 marks)	
	(b)	Sketch and briefly discuss four (4) types of networks topologies in compute network.	r	
			8 marks)	
	(c)	Explain briefly advantages and disadvantages of each topology.	4 marks)	
Q42	(a)	How many stages in a multimedia project? List them out one by one in sequence (ence. 6 marks)	
	(b)	State three (3) common multimedia content distribution channel/medium.	3 marks)	
	(c)	Describe three (3) consideration on choosing which channel/medium stated (b) for media distribution.	in Q22	
Q43	()		6 marks)	
	(a)	Discuss two (2) importance of text application in multimedia presentation.	4 marks)	
	(b)	Clarify two (2) type of digital audio format with example.	6 marks)	
	(c)	Briefly explain about digital video container.	2 marks)	
	(d)	List down three (3) audio or video format use in multimedia presentation.	3 marks)	
Q44	(a)	Explain three (3) important aspect (or settings) to be considered when con		
		a video.	5 marks)	
	(b)	 (i) A video stream with 30 frames per second playback. If each consists of 160 X 120 pixels of 24 bit colours depth. Calculate storage required to store the above video file for ten minutes. (ii) A typical, uncompressed high-quality audio file has a sample 44,100 samples per second, a bit depth of 16 bits per sample channels of stereo audio. Calculate the bitrate and the file size it for 4 minutes long. 	the total e rate of le and 2	
			0 marks)	

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- Q45 (a) What does the following acronyms stands for?
 - (i) HTML
 - (ii) HTTP
 - (iii) WWW
 - (iv) ISP
 - (v) FTP

(5 marks)

- **(b)** Explain the following computer security threats:
 - (i) Virus
 - (ii) Worm
 - (iii) Trojan
 - (iv) Phishing
 - (v) spoofing

(10 marks)

-END OF QUESTIONS -

