

# UNIVERSITI TUN HUSSEIN ONN MALAYSIA

# FINAL EXAMINATION (ONLINE) **SEMESTER I SESSION 2020/2021**

**COURSE NAME** 

COMPUTER TECHNOLOGY AND

**MULTIMEDIA** 

COURSE CODE

: DAE 10403

PROGRAMME CODE : DAE

EXAMINATION DATE : JANUARY / FEBRUARY 2021

**DURATION** 

2 HOURS

INSTRUCTION

ANSWERS ALL QUESTIONS IN PART A.

ANSWERS ANY FOUR (4) QUESTIONS IN

PART B.

**OPEN BOOK EXAMINATION** 

THIS QUESTION PAPER CONSISTS OF NINE (9) PAGES

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## PART A: MULTIPLE CHOICE QUESTIONS

(1 marks each)

- Which invention replaced vacuum tube and made computer much smaller (2<sup>nd</sup> generation of modern computer)?
  - A. Random Access Memory (RAM)
  - B Read Only Memory (ROM)
  - C Transistor
  - D. Transformer
- Q2 This invention started the 3<sup>rd</sup> 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 4<sup>th</sup> 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 frequency?
  - A. 2.4 GHz
  - B. 5 GHz
  - C. Answer A and B
  - D. None of the 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

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Q14	What is	Spreadsheet?  Documents containing a group of numbers and other data organized into rows and		
	21.	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 stat	ements 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			
	Ā.	Username		
	В.	IP Address		
	C.	Login		
	D.	Computer Brand		
Q17	Bluetooth is an example of			
	A.			
	В.	Wide area network		
	C.	Metropolitan area network		
	D.	Virtual private network		
Q18	What is	the use of Bridge in Network?		
	A.	To separate LANs		
	В.	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		

Data communication system within a building or campus is\_\_\_\_\_ **Q20** 

A. Wide area network

B. Local Area Network

C. Integrated Circuit (IC)

D. Internet

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Q21	A video	o consists of a sequence of				
	A.	Frames				
	В.	Signals				
	C.	Packets				
	D.	Slots				
Q22	Stream	Streaming stored audio/video, files are compressed and stored on a				
	A.	IP				
	B.	Server				
	$\mathbf{C}_{\mathbf{z}}$	Domain				
	D.	Internet				
Q23	In Real Time Interactive Audio Video, Jitter is introduced in real-time data by delay between					
	A.	Frames				
	B.	Layers				
	C.	Pixels				
	D	Packets				
Q24	In Real Time Interactive Audio Video, data are stored in buffer at a possibly variable					
	A.	Pixels				
	B.	Packets				
	C.	Rates				
	D.	Bytes				
Q25	A smaller version of an image is called a:					
	A.					
	В.	Bitmap				
	C.	Portable network graphic				
	D.	Thumbnail				
Q26		de controls text characteristics, background color and special effects, such				
		owing and bullet style.				
	А. В.	presentation master				
	C.					
	D.					
Q27	Designed to create a particular look, a contains colour schemes, slide and title					
~-/	masters with custom formatting and font's styles.					
		template				
	В. С.	A CONTRACTOR OF THE PROPERTY O				
		background TERBUKA				
	Σ,	5				

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	is the special effect used to introduce each slide in a slide presentation.			
A.	Animation			
B.	Bulleting			
C.	Transition			
D.	Mapping			
A	displays a list of commands and usually appears in the toolbar at the top of the			
	view			
	menu kit			
D.	list			
Α	can be added to your presentation and then used to go to a variety of			
locations, for example, a web address, an e-mail address, a custom show or document, justo name a few				
	menulink			
	hyperlink			
	toollink			
D.	slidelink			
Which 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			
	parameter defines number of times electron beam scans screen in a second:			
	Refresh rate			
	Data transfer rate			
D.	Pitch rate All of above			
Which is considered as semi-conductor memory, which is made up of static RAM?				
	Primary memory			
	Cache memory			
	Both A & B			
D.	None of above			
Which is not the browser?				
A.	Internet Explorer			
B.	Opera			
C.	Mozilla Firefox			
D.	Google			
	B. C. D.  A screen. A. B. C. D.  A location to name A. B. C. D.  Which A. B. C. D.			

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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 internetconnection:
  - 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

entitle orestore.

# PART B: STRUCTURED QUESTIONS

Q41	(a)	Describe computer networks and network topology.	(3 marks)
	(b)	Sketch and briefly discuss four (4) types of networks topologies.	(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 sec		uence. (6 marks)
	(b)	State three (3) common multimedia content distribution channel/medium.	(3 marks)
	(c)	Describe <b>three</b> (3) consideration on choosing which channel/medium state (b) for media distribution.	d in Q42
Q43	(a)	Discuss two (2) importance of text application in multimedia presentation.	(6 marks) (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 frame consists of 160 X 120 pixels of 24 bitcolours depth. Calculate thetotal storage required to store the above video file for ten minutes.
  - (ii) A typical, uncompressed high-quality audio file has a sample rate of 44,100 samples per second, a bit depth of 16 bits per sample and 2 channels of stereo audio. Calculate the bitrate and the file size if it's run for 4 minutes long.

    (4 marks)



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- Q45 (a)
  - 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 -