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**UNIVERSITI TUN HUSSEIN ONN
MALAYSIA**

**FINAL EXAMINATION
(ONLINE)
SEMESTER II
SESSION 2020/2021**

COURSE NAME	:	INFORMATION TECHNOLOGY IN EDUCATION
COURSE CODE	:	BBD 10803
PROGRAMME CODE	:	BBA/BBB/BBC/BBD/BBE/BBF/BBG
EXAMINATION DATE	:	JULY 2021
DURATION	:	3 HOURS
INSTRUCTION	:	ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF **NINE (9)** PAGES

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TERBUKA

SECTION A

Q1 Monitor that featuring a layer of liquid between two pieces of polarized glass is called _____ .

- A CRT
- B TFT
- C LCD
- D TRT

Q2



Figure Q2

Which of the following optical recognition device that can be used to process the form illustrated in **Figure Q2**?

- A Optical Mark Reader
 - B Optical Character Reader
 - C Optical Handwriting Reader
 - D Optical Sign Reader
- Q3 What happens if one of the computers in ring topology fails?
- A Some of the computers will still work
 - B The whole network fails
 - C One computer fails
 - D Nothing happens
- Q4 Which of these is NOT disadvantage of tree topology?
- A Overall length of each segment is limited by the type of cabling used
 - B If the backbone line breaks, the entire segment goes down
 - C More difficult to configure and wire than other topologies
 - D If one computer fails, whole network fails

Q5 Which of the following statements refer to mobile devices?

- A A personal computer that can be carried from place to place
- B A portable, personal computer small enough to fit oh your lap
- C A letter-sized notebook computer that user interact with by touching the screen with finger
- D A computing device small enough to hold in your hand and usually does not have disk drives

Q6

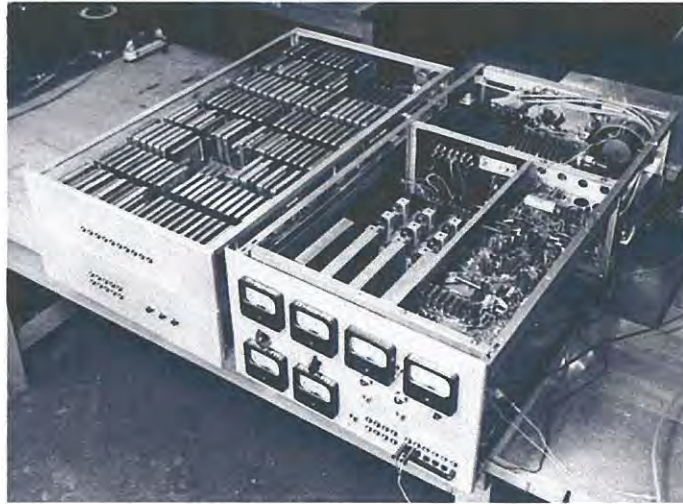


Figure Q6

Figure Q6 shows transistor technology used in computer. In what computer generation this transistor technology was classified?

- A First Generation
 - B Second Generation
 - C Third Generation
 - D Fourth Generation
- Q7 The following characteristics are best refer to
- make slide shows for teaching and informational purposes
 - help keep the audience focused on your subject
- A spreadsheet software
 - B presentation software
 - C word processing software
 - D editing software

- Q8** Which of the following software is not an open source software?
- A Microsoft Word
 - B Open Office
 - C Firefox
 - D Moodle
- Q9** Which of the following statements is true about contactless smart card?
- A The contactless smart cards have storage capacities smaller than RFID tag however the size of the chip larger than RFID tag
 - B The chips in contactless smart cards has processing capabilities
 - C The contactless smart cards are often not as secure as RFID tags
 - D The contactless smart cards are more cost-effective than an RFID tags
- Q10** Which of the following statements is true about Redundant Array of Inexpensive Disks?
- A RAID (stripping) could cause a complete data loss due to loss of every disk in array
 - B RAID (disk mirroring) data can be stored as big as the smallest disk capacity
 - C RAID is a disk solution that allow interruption happen during data access and capable of ensuring the redundancy of your data
 - D A level 1 RAID configuration weakness is storage reliability because data cannot be recovered and not available elsewhere within the arrays if one drive fails
- Q11** Each record in the domain name system
- A represents a correspondence between a domain name and an IP address
 - B protects domain names from DNS spoofing
 - C routes packets over the Internet
 - D has a spoofed IP address that is easy for hackers and governments to change
- Q12** When connected to a network, your computer can receive an address from
- A DHCP
 - B packets
 - C IPv4
 - D IPv6

Q13 What is the mean of the Booting in the operating system?

- A Restarting computer
- B Install the program
- C To scan
- D To turn off a collection of hardware components

Q14 X is one of the component in a processor with the following characteristics:

- Holds and instruction temporarily
- Only can be used internally and cannot be accessed outside the processor
- High speed storage area

What is X refering to?

- A Register
- B Chips
- C Chassis
- D Memory

Q15 Choose the right statement of bus in a processor.

- I Allow the devices inside and outside the processor communicate each other
- II Bus transfer bits from input devices to memory
- III Bus has two genders which are female and male
- IV One of the type of bus is expansion bus

- A I, II and III only
- B I,II and IV only
- C II, III and IV only
- D All of the above

Q16 “Someone use your electronic messaging systems like e-mails and other digital delivery systems and broadcast media to send unwanted bulk messages indiscriminately.”

Base on the stated situation above, this activity can be referred as what?

- A Spoofing
- B Identity theft
- C Hijacking
- D Spamming

Q17 Choose the suitable precaution measures need to be taken in order to secure your computer from breaching and attacking activities

- I Use password related to your personal details such as Name and identity card number
- II Install firewall to protect your computer
- III Backup computer data regularly
- IV Use parental control for filtering websites

- A I, II and III only
- B I, II and IV only
- C II, III and IV only
- D All of the above

Q18 What is the reason to mix system with HDD mass storage and an SSD boot drive for your Windows 10 installation?

- A To balance its price, performance, and space so that user will have a well-rounded machine for all occasions
- B To prevent the system from not functioning well as Windows 10 installation requires a powerful computer system
- C To disable unnecessary services running in background as there are some services are non-useful services in your system
- D To enhance the conversion of raw data to machine-readable form, flow of data through the CPU and memory to output devices

- Q19** You plan to buy the new memory card for your smart phone. Which of the following memory card that suitable to be used in the smart phone?
- A SD Card
 - B Micro SD
 - C Micro USB
 - D xD Picture Card
- Q20** Among the following, which unit handles all the operations of the system that are inside and outside the processor according to Von Neumann architecture?
- A Input Unit
 - B Output Unit
 - C Control Unit
 - D Memory Unit

(20 marks)

SECTION B

- Q21** (a) State **four (4)** twenty-first century skills. (4 marks)
- (b) Elaborate **two (2)** types of cyber laws gazetted in Malaysia. (4 marks)
- (c) Discuss **three (3)** differences between LED and LCD monitor. (6 marks)
- (d) Discuss **three (3)** ways on how to save your data. (6 marks)
- Q22** (a) Name **four (4)** common components inside the system unit. (4 marks)
- (b) Briefly describe **four (4)** types of Operating Systems. (4 marks)
- (c) Give **four (4)** reasons why you need a custom software? (6 marks)
- (d) Explain **three (3)** differences between system software and application software. (6 marks)
- Q23** (a) Explain why using a private IP address make your device safe from all threats? (4 marks)
- (b) Explain why upload and download speeds different? (4 marks)
- (c) Explain how are computer networks classified. (6 marks)
- (d) Any device in a network is called a node. Discuss how the devices in a network classified? (6 marks)

- Q24** (a) Define Computer Assisted Instructions (CAI) and Computer Assisted Learning (CAL). (4 marks)
- (b) List **four (4)** advantages of CAI. (4 marks)
- (c) Explain **three (3)** benefits of using games in classroom. (6 marks)
- (d) Discuss **three (3)** advantages of using simulations in education. (6 marks)

- END OF QUESTIONS -