



UNIVERSITI TUN HUSSEIN ONN MALAYSIA
FINAL EXAMINATION
(ONLINE)
SEMESTER II
SESSION 2019/2020

NAMA KURSUS : INFORMATION TECHNOLOGY IN
EDUCATION
KOD KURSUS : BBD 10803
KOD PROGRAM : BBA/BBB/BBC/BBD/BBE/BBF/BBG
TARIKH PEPERIKSAAN : JULY 2020
JANGKA MASA : 3 HOURS
ARAHAN : ANSWER ALL QUESTIONS

THIS QUESTIONS PAPER CONSISTS OF **EIGHT (8)** PAGES

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TERBUKA

SECTION A

- Q1** Which of the following is not an act in cyber law passed by the Malaysian parliament?
- A Digital Act signature 1997
 - B Computer crime Act 1998
 - C Telemedicine Act 1997
 - D Communication and Multimedia Act 1998
- Q2** In terms of learning 21st century innovation, the following are skills that students need to master, except:
- A Communication and collaboration
 - B Creativity and innovation
 - C Self-confidence
 - D High-level thinking
- Q3** "Creating a competitive, efficient and self-regulating communications and multimedia industry that generates growth to meet the country's economic and social needs". This statement is a vision of
- A Multimedia Super Corridor
 - B Malaysian Communications and Multimedia Commission
 - C Communication and multimedia
 - D Electronic government
- Q4** The function developed at MSC is to provide opportunities for collaboration with other centers in the world in various fields of engineering, construction and design work in producing innovative and competitive products
- A e-government
 - B Smart school
 - C Research and development cluster
 - D Borderles marketing

Q5



Figure 1

Figure 1 shows a type of hard disk drive. Which of the following statement described the characteristic of the hard disk?

- A Each drive connects directly to the motherboard.
- B Ribbon-like, wide, can be up to 18 inches long.
- C Data transfers at the rate of up to 133MB/s.
- D Lacks support for new technology.

Q6 How much is one terabyte equal to?

- A 1024 bytes
- B 1024 kilobytes
- C 1024 gigabytes
- D 1024 megabytes

Q7 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

- Q8** 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
- Q9** Which of the following is an example of utility?
- A Antivirus
 - B Word
 - C Operating system
 - D Data recovery
- Q10** The term "operating system" means
- A set of programs which controls computer working
 - B the way a computer operator works
 - C conversion of high level language into machine code
 - D the way a floppy disk drive operates
- Q11** Which of the following does not occur during the power-on-self test (POST)?
- A The scan disk utility begins to run
 - B The video card and video memory are tested
 - C The BIOS identification process occurs
 - D Memory chip are checked to ensure that they are working properly
- Q12** Which of the following is true for machine language.
- A Repeated execution of program segments
 - B Depicting flow of data in a system
 - C A sequence of instructions which, when followed properly, solves a problem
 - D the language which communicates with the computer using only the binary digits 1

- Q13** Operating system is
- A A collection of hardware components
 - B A collection of input-output devices
 - C A collection of software routines
 - D All of the above

- Q14** Software that measures, monitors, analyzes, and controls real-world events is called:
- A system software
 - B real-time software
 - C scientific software
 - D business software

Question 15 and 16 are based on the **Diagram 1**

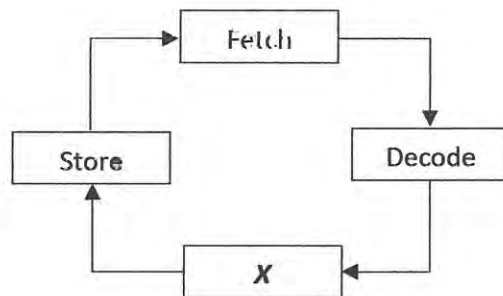


Diagram 1

- Q15** **Diagram 1** shows a process in a Central Processing Unit (CPU) of a computer. What is the **Diagram 1** actually referring to?
- A Input and output process
 - B Machine cycle
 - C OSI Model
 - D Operating system process

- Q16** Choose the correct process of **X** and example of activity carried by **X**

	X	Activity
A.	Execute	$6 \times 20 - (96 / 12)$
B.	Encode	$6 \times 20 - (96 / 12) = 112$
C.	Execute	$6 \times 20 - (96 / 12) - 112$
D.	Encode	$6 \times 20 - (96 / 12)$

- Q17** Sometimes a CPU can experience malfunction or failure. What is the main reason for this incident happened?
- A The cooling pad is not used together with a computer
 - B Heat generated by the processor chips
 - C Too many operations executed by a computer at the same time
 - D RAM size is too small
- Q18** Which of the following statement is TRUE about serial ports?
- A Enable to transmit data to wireless devices
 - B Enable to transfer more than one bit of data at a time
 - C Enable to transmit one bit of data at a time
 - D Can connect up to 127 different peripherals together
- Q19** In a CPU, there is a system used to transfer bits from input devices to memory. The system is called as what?
- A Bus
 - B Adapter
 - C Circuit
 - D Flash memory
- Q20** What is the function of cache?
- A Help to recharge the power supply of a device
 - B Help to transmit signal for locating a given address in primary storage
 - C Help to pass information in bi-directional
 - D Help to speed up computer process by storing frequently used instruction data

SECTION B

- Q21** (a) Give the definition of the following terms
(i) Data
(ii) Information (4 Marks)
- (b) Explain three (3) examples of daily usage of Information and Communication Technology (ICT) at school, at home or at work (6 Marks)
- (c) Briefly explain the difference between the following types of printers.
(i) Dot-matrix
(ii) Line
(iii) Laser (6 Marks)
- (d) You plan on buying a new external hard drive to use for long-term data backup storage. Explain two (2) things to consider before buying the external hard drive. (4 Marks)
- Q22** (a) Multiple computers are connected through a group of topology. Describe two (2) advantages and two (2) disadvantages of tree topology. (4 Marks)
- (b) Transmission is an act in transferring something from one spot to another. In brief, explain how the following transmission medium is functioning:
(i) Long Term Evolution (LTE)
(ii) Infrared Data Association (IrDA)
(iii) Radio-frequency Identification (RFID) (6 Marks)
- (c) In brief, describe two (2) characteristics of Local Area Network (LAN) (4 Marks)
- (d) Define network and why we need network in our daily life? (6 Marks)

- Q23** (a) What is the definition of phishing emailing? (2 Marks)
- (b) What is the meaning of green computing? Describe two (2) purposes of green computing? (4 Marks)
- (c) In brief, explain two (2) differences between copyright and plagiarism. (4 Marks)
- (d) Discuss two (2) approaches that can be implemented in order to promote green computing. (4 Marks)
- (e) Nowadays, cloud computing becomes popular storage tools for people to store their files and data. However, there are tendencies for cloud computing become unsafe. As a user, how you can minimize this problem to ensure your files and data is protected? (6 Marks)
- Q24** (a) Briefly explain the following general purposes application software:
(i) Shareware
(ii) Web application (4 Marks)
- (b) Explain three (3) disadvantages of fog computing. (6 Marks)
- (c) (i) Describe two (2) examples of World Wide Web (WWW) Applications. (4 Marks)
- (ii) Draw the diagram that represents how Internet of Things (IoT) work? (6 Marks)

-END OF QUESTIONS-