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## THE POLYTECHNIC, IBADAN DEPARTMENT OF COMPUTER STUDIES SECOND SEMESTER EXAMINATION 2020/2021 SESSION

COURSE CODE:

COM 126

COURSE TITLE:

PC UPGRADE & MAINTENANCE

CLASS:

NDI COMPUTER (FT & DPP)

TIME:

≜ HOURS

INSTRUCTION:

ANSWER ANY FOUR (4) QUESTIONS. ALL QUESTIONS

CARRY EQUAL MARKS

## QUESTION ONE

What is a computer virus?

[2 marks]

~b. Hence, what are the two behaviours of a virus? [2 marks]

In a tabular form, with three (3) factors, differentiate between computer virus and ·C. computer worm

[3 marks]

١d. Write down "true" or "false" in response to the following:

١i. Boot sector viruses infects the system area of a disk

The only way to clean a file infected by an overwrite virus is to delete the file completely, \ii.

thus losing the original content.

viii. Blended threats combine the characteristics of viruses, worms, Trojan horses, and malicious code with server and Internet vulnerabilities to initiate, transmit, and spread an

Spyware is a type of malware that performs certain behaviors such as advertising, IV. collecting personal information or changing the configuration of your computer, generally without appropriately obtaining your consent first.

A Potentially Unwanted Program is a program that may be unwanted, despite the

possibility that users consented to download it.

Viruses can be cleaned up by anti-viruses. vi.

Network viruses rapidly spread through copying files from infected system with flash disk vii.

Trojan horse replicate themselves. viii.

[8 marks]

## **QUESTION TWO**

V.

What is computer hardware upgrade? \ a.

[2 marks]

State three (3) benefits each derivable from computer hardware and software upgrade Ь.

[3 marks]

Explain the difference(s) between software upgrades and updates YC.

[2 marks]

List four (4) hazards that can threaten the normal operations of a personal computer ١d.

[4 marks]

State eight (8) items you can back up from your computer. ve.

[4 marks]

## **QUESTION THREE**

Write 'true' or 'false' in response to the following a.

- If you work with a lot of digital video, you can probably benefit from adding RAM and/or í. changing from an integrated or "on-board" graphics card to a dedicated graphics card.
- ii. If you are running out of storage space, you can upgrade to a bigger hard drive with more storage capacity.
- Because graphics processing uses RAM, a graphics card upgrade may improve overall iii. performance.

To see the biggest increase in performance, decrease the amount of RAM in an older 11 computer. Completely replacing a hard drive will involve transferring all your files from the old drive ٧. to the new one, as well as reinstalling the operating system and all the software. When installing a new processor, the key consideration is finding one that will work with 17. your motherboard. A faster processor can help your computer run faster, but this is not an easy upgrade and VII. should be approached with caution. The additional capacity of DVDs makes copying files or backing up difficult vui. If your computer is slow, upgrading to a faster hard drive may slow down overall ix. performance [9 marks] b. Describe the following: ì. Spyware ii. Malware [3 marks] List six (6) computer components that can be upgraded C. [3 marks] QUESTION FOUR Highlight the basic housekeeping tasks you must first carry out before deciding you need ·a. a hardware upgrade. [3 marks] What is the full meaning of SSD? Hence, state four advantages of SSD over the traditional - b. hard disk drive [3 marks] · ' C. Write the correct word that fills the gap in the statements below A \_\_\_\_\_\_ is when a software program stops working and then closes. vi. ii. A \_\_\_\_\_\_ is when a software program becomes unresponsive. A \_\_\_\_\_\_ is when a software program stops functioning and cannot perform any Viii. functions. [1 mark each] ٠d. Enumerate any four (4) types of viruses you know [2 marks] e. List any eight (8) computer antivirus software known to you [4 marks] QUESTION FIVE Because of the publicity that viruses have received, it is easy to blame any computer problem on a virus. On this assertion, highlight six (6) problems that are not likely to be caused by a computer virus. Write 'yes' or 'no' in response to the following ways of keeping your computer clean for b. maximum performance [4 marks] i. When purchasing a computer, remember to also purchase dust covers. When considering a location for the computer in your home or office, place it in an area ii. that is susceptible to rain and dust If one is serious about maintaining his computer for optimal performance, then he should iii. consider cleaning the computer on a regular basis. iv. Maintaining the optimum performance of one's computer also includes managing the files on the computer's hard-drive. Highlight the basic steps in troubleshooting a hardware problem [4 marks] C. **QUESTION SIX** Give five (5) general precautions in order to have safe computing [5 marks] ъ. Differentiate between CD and DVD. [2 marks] What are Potentially Unwanted Programs (PUPs)?

Memory is added to the computer in the form of SIMMs or DIMMs. State the full meaning

[2 marks]

[4 marks]

[2 marks]

C.

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d.

Hence, highlight four (4) things that PUP can do

of SIMM and DIMM.