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END SEMESTER EXAMINATION, NOVEMBER-2018

Semester – 5th

Subject Code : Co-503

COMPUTER MAINTENANCE

Full Marks – 35

Time – 2½ hours

The figures in the margin indicate full marks for the questions.

Instructions :

1. All the questions of PART-A are compulsory.
2. Answer the questions as directed on PART - B.

PART - A

Marks – 13

1. Fill in the blanks : (any *four*) 1×4=4

(a) _____ maintenance may require component replacement of a PC.

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- (b) The chipset is divided into ____ and ____.
- (c) ____ is the process of dividing the disk into tracks and sectors.
- (d) The ____ is an intentionally disruptive program that spreads from program to program or from disk to disk.
- (e) ____ is the amount of data that can be transmitted in a given amount of time.

2. Write true or false : (any *four*) $1 \times 4 = 4$

- (a) The Northbridge chip performs more tasks than the Southbridge chip does.
- (b) BIOS and POST are synonymous.
- (c) BEEP Codes indicate both hardware and software problems.
- (d) Dual Booting system requires a multi-partitioned hard disk.
- (e) Firewall provides data protection.

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3. Choose the correct answer :

$1 \times 5 = 5$

A. BIOS stands for

- (i) Basic Input Output System
- (ii) Binary Input Output System
- (iii) Basic Input Off System
- (iv) All of the above.

B. SMPS stands for

- (i) Switch Mode Power Supply
- (ii) Start Mode Power Supply
- (iii) Store Mode Power Supply
- (iv) Single Mode Power Supply

C. Which technological issue may not be caused due to virus ?

- (i) CMOS battery goes down
- (ii) The computer slows down
- (iii) Hard disk is crushed
- (iv) Some files are missing.

150/Co-503/CM (3)

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D. DMP stands for

- (i) Dot Matrix Printer
- (ii) Dot Matrix Port
- (iii) Dynamic Message Provider
- (iv) None of the Above.

E. Choose the wrong one :

Browser

- (i) is a software application used to access the World Wide Web and view web pages
- (ii) is freely downloadable
- (iii) does not require operating system to run
- (iv) None of the above.

PART - B

Marks - 22

Answer question No. 4 and any *four* from the rest.

4. Differentiate between preventive maintenance and corrective maintenance. 2

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(4)

360(B)

5. (a) What is POST ? 1

(b) What are functions performed by the BIOS ? 2

(c) Write down the Boot Sequence in a PC. 2

6. (a) Name the on-board major components of a modern motherboard. 2

(b) Differentiate between Northbridge chip and Southbridge chip. 2

(c) What is the use of an Expansion Slot ? 1

7. (a) What is an SMPS ? 1

(b) Why SMPS is used ? 2

(c) What are the major components of an SMPS ? 2

8. (a) What is a UPS ? What is main objective of using a UPS ? 2

(b) Differentiate between an offline UPS and an online UPS. 3

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(5)

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9. (a) Name some (Software) tools/services provided by windows OS describing briefly about their functionality. 2

(b) Write down the steps for an OS installation. 3

10. What do you mean by troubleshooting a PC? Write down the basic steps for troubleshooting a PC. 5

11. Name some computer network devices describing their functionality briefly. 5

12. Write short notes : (any two) 2×2½=5

(i) PC overheating

(ii) Anti-static precautionary measures

(iii) File server.