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END SEMESTER EXAMINATION - 2019

Semester : 4th (New Syllabus)

Subject Code : CO-405

COMPUTER HARDWARE AND NETWORKING

Full Marks - 35

Time - Two hours

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

PART - A

Marks - 12

Answer *all* the questions. $4 \times 3 = 12$

1. Fill in the blanks : $1 \times 4 = 4$

(a) SMPS stands for _____.

(b) BIOS means _____.

(c) A _____ is a process performed by
firmware or software routines immediately
after AC computer is powered on.

(d) _____ is the command to format a
Disk.

[Turn over

2. Write true or false :

1×4=4

- (a) Early Intel processors started at physical address FFFF1 H.
- (b) Protocol is a common language that computers use to talk with one another on a network.
- (c) PCI means Peripheral Component Interconnect.
- (d) 255.255.255.0 is the subnet mask of a class B network.

3. Choose the correct answer :

1×4=4

- (a) A hard disk is divided into tracks which are further subdivided into
 - (i) Clusters
 - (ii) Sectors
 - (iii) Vectors
 - (iv) Heads
- (b) With respect to a network interface card, the term 10/100 refers to
 - (i) Protocol speed
 - (ii) Megabits per speed
 - (iii) Fibre speed
 - (iv) Minimum and maximum server speed.



(c) From what location are the first Computer Instructions available on boot up ?

- (i) CPU
- (ii) Boot.ini
- (iii) ROM BIOS
- (iv) CONFIG.SYS

(d) Which type of system board is the most likely candidate for processor upgrading if you want maximum performance and future compatibility ?

- (i) ML
- (ii) ISA
- (iii) PCI
- (iv) EISA

PART - B

Marks - 23

Answer any four questions from Q. Nos. 4 to 8.

2×4=8

- 4. Differentiate between BIOS ROM and CMOS setup.
- 5. Write and describe the major components of a motherboard.
- 6. Define the term 'Form Factor' with example.

1/CO-405/CH&N (N)

(2)

1/CO-405/CH&N (N)

(3)

[Turn over

7. What is Impact and Non-Impact printer ? Define with examples.
8. What to do if there are problems after installation of new software ?

Answer any *five* questions from Q. Nos.9 to14
3×5=15

9. Define the terms NIC, Router and Modem.
10. Explain about class full and class less IP.
11. Explain in details about the function of Firewall.
12. Explain the partitioning and formatting procedures of a hard disk.
13. Define DHCP, DNS and mail server.
14. Explain the process of sharing a file or a printer between two systems in a LAN.

