

Total number of printed pages = 5

19/4th Sem/DCSE 405



2022

**COMPUTER HARDWARE AND
NETWORKING**

Full Marks – 100

Time – Three hours

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

Answer any *five* questions.

1. Answer the following questions : 1×20=20

(a) POST program stands for

- (i) Power-on self test
- (ii) Power-out self test
- (iii) Power-on self track
- (iv) None of the above

(b) Motherboards forms are

- (i) AT
- (ii) ATX
- (iii) Baby AT
- (iv) All of the above

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(c) DVD stands for

- (i) Digital Versatile Disk
- (ii) Digital Video Disk
- (iii) Direct Versatile Disk
- (iv) None of the above



(d) SATA transfer speed is upto

- (i) 100 MB/sec (ii) 400 MB/sec
- (iii) 600 MB/sec (iv) 200 MB/sec

(e) SMPS stands for

- (i) Switch mode power supply
- (ii) Static mode power supply
- (iii) Synchronous mode power supply
- (iv) None of the above

(f) DDR-RAM stands for _____. (Fill in the blank)

(g) Flash memory is a type of _____ memory. (Fill in the blank)

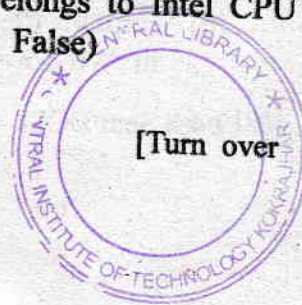
(h) The term BIOS known as device drivers. (Write True or False)

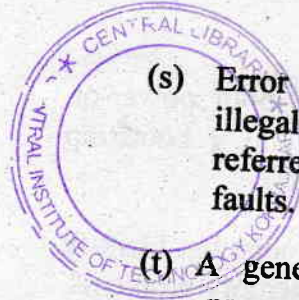
- (i) ROM chip doesn't contain both power-on self test (POST) program and a bootstrap loader. (Write True or False)
- (j) WDI is a set of diagnostic tools that identify existing disk, network and memory problems. (Write True or False)
- (k) Core 2 Duo - Standard dual-core processors. (Write True or False)
- (l) SRAM is much faster than DRAM. (Write True or False)
- (m) SRAM is also much higher in density and less expensive. (Write True or False)
- (n) DDR stands for _____. (Fill in the blank)
- (o) _____ is setting up in two hard disks for using as master and slave. (Fill in the blank)
- (p) PS/2 port is replaced by _____. (Fill in the blank)
- (q) Celeron processor belongs to Intel CPU family. (Write True or False)
- (r) Athlon 64 processor belongs to Intel CPU family. (Write True or False)

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- (s) Error codes returned by a program when an illegal instruction has been encountered referred as General or Global protection faults. (Write True or False)
- (t) A general-purpose error indicating that a program has been corrupted in memory referred as General or Global protection faults. (Write True or False)
2. (a) What is the system layout in terms of front and back side panel? 6
- (b) What is BIOS setup? Describe BIOS setup configurations details. 6
- (c) Mentions the different types of card which required an onboard BIOS. 8
3. (a) Describe the connector's role corresponding to I/O devices. 6
- (b) Describe about physical memory and also its types. 6
- (c) Discuss about the different types of RAM. 8
4. (a) Explain the basic network Troubleshooting Tools. 8
- (b) Explain the Common Troubleshooting Tools in Windows. 5
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(c) Draw a table to describe the cables used at the different levels of networking, speed and performance also. 7

5. Write short notes on any *four* of the following : 5×4=20

- (a) Firewall
- (b) SMPS
- (c) USB Port
- (d) Disk partition
- (e) Flash Memory.

6. Differentiate between the following (any *four*) : 5×4=20

- (a) ATA and SATA
- (b) PCI local Bus and AGP Bus
- (c) Repeaters and Bridges
- (d) Coaxial and Fiber Optic cables
- (e) Wired and Wireless Ethernet.

