C09–CM–403/C09–IT–**403**

# 3460

## BOARD DIPLOMA EXAMINATION, (C–09)
## OCT/NOV—2015
## DCM—FOURTH SEMESTER EXAMINATION

COMPUTER HARDWARE AND NETWORKING

*Time* : 3 hours ]　　　　　　　　　　　　　　[ *Total Marks* : 80

**PART—A**　　　　　　　3×10=30

*Instructions* : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

**1.** What is the firmware?

**2.** List different types of chipsets.

**3.** Write a short note on north bridge.

**4.** Write a short note on SIMM.

**5.** Write about SDRAM.

**6.** Write a short note on VIRUS.

**7.** List any three diagnostic software.

**8.** List two advantages and two disadvantages of having international standards for network, protocols.

**9.** Write about Unshielded Twisted Pair (UTP) cables.

**10.** What is the class of each of the following addresses :
   *(a)* 10011101   10001111   11111100   11001111
   *(b)* 11011101   10001111   11111100   11001111
   *(c)* 01111011   10001111   11111100   11001111

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**PART—B**                                    10×5=50

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*Instructions* : (1) Answer *any* **five** questions.
   (2) Each question carries **ten** marks.
   (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

**11.** Explain the steps in booting process.

**12.** *(a)* How can we calculate clock multiplier? Explain the relationship between clock multiplier and bus speed.
   *(b)* Explain the concept of CPU over clocking.

**13.** *(a)* Explain about setting the CPU properties.
   *(b)* Explain about setting bus speeds.

**14.** Write short notes on :
   *(a)* Disk cleanup
   *(b)* Disk backup
   *(c)* Disk fragmentation

**15.** Explain the trouble-shooting procedure in power system failures.

**16.** Explain the trouble-shooting procedure of system board.

**17.** Explain the OSI reference model with a neat sketch and the function of each layer.

**18.** *(a)* Explain about TCP/IP protocols.
   *(b)* Explain about FTP protocols.

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