**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CS T72 - COMPUTER HARDWARE AND NETWORK TROUBLESHOOTING**

**UNIT - II**

**PARTA (2 Marks)**

* 1. Write the Mother board Components?
  2. What is meant by Chipsets?
  3. What is meant by Northbridge?
  4. What is meant by Southbridge?
  5. Define Bus?
  6. What is ISA?
  7. Define IDE. (NOV 2010)
  8. Differentiate LAN and WAN. (NOV 2010)
  9. What is PCI? (APR 2011)
  10. Define MODEM. (APR 2011), (APR 2012)
  11. Expand SCSI. (APR 2012) , (NOV 2012)
  12. Write an example of peripheral devices. (NOV 2012)
  13. What are the two types of system boards? (NOV 2012)
  14. Write some power supply connectors?
  15. What do you mean by BIOS? (NOV 2012)
  16. Expand: ISA, PCI, MCA and SMPS. (NOV 2013)
  17. What is CMOS?
  18. What is meant by Plug and Play? (NOV 2013)
  19. State the purpose of SMPS. (NOV 2014)
  20. List out the sections available in MCA connector? (NOV 2014)

**PART B (11 Marks)**

1. What are the Components available in the Mother board? Explain Briefly. (Ref.Pg.No.6,Qn.No.1).
2. Describe the detail about mother board architecture. (NOV 2012) (Ref.Pg.No.6,Qn.No.2).
3. Explain briefly about Chipset. (Ref.Pg.No.7,Qn.No.3).
4. Write about Sixth and Seventh generation Chipsets. (Ref.Pg.No.9,Qn.No.4)
5. Explain briefly about third party chipsets VIA, SiS and NVIDIA(Ref.Pg.No.10,Qn.No.5)
6. Compare Desktop vs Laptop motherboards. (Ref.Pg.No.10,Qn.No.6)
7. What is Bus? Explain the Bus Standards : ISA,PCI and MCA. (Ref.Pg.No.11,Qn.No.7)
8. Explain the following: a) ISA, b) PCI, c) PCI Express, d) AGP, e)MCA(APR 2012)(NOV 2010) (Ref.Pg.No.11,Qn.No.8)
9. Describe the features of PCI Bus, also list out the pins and signals available in PCI bus. (NOV 2014) (Ref.Pg.No.15,Qn.No.9)
10. Explain briefly about the system resources Interrupts, DMA channels and I/O Port addresses. (Ref.Pg.No.16,Qn.No.10)
11. Explain the working principle SMPS with functional block diagram. (APR 2012), (NOV 2012) (NOV 2013) (Ref.Pg.No.19,Qn.No.11).
12. Explain the working principle of SMPS. What are the types of SMPS, Explain? (Ref.Pg.No.19, Qn.No.12)
13. Explain Power-Supply Connectors and switches. (Ref.Pg.No.25,Qn.No.13).
14. Explain briefly about RTC/NVRAM Batteries or (CMOS Chips) (Ref.Pg.No.28,Qn.No.14).
15. What is BIOS? How BIOS works? (Ref.Pg.No.30,Qn.No.15).
16. Explain briefly about CMOS setup. (Ref.Pg.No.32,Qn.No.16)
17. What is Plug and Play BIOS. Explain. (Ref.Pg.No.36,Qn.No.17)
18. List out the BIOS / MBR error messages and Explain. (NOV 2014) Ref.Pg.No.36,Qn.No.18,19)

**STAFF-INCHARGE HOD DEAN PRINCIPAL**