

**DIPLOMA IN ENTREPRENEURSHIP AND
SKILL DEVELOPMENT**

Term-End Examination 00837

December, 2011

**BVEE-005 : COMPUTER HARDWARE AND
NETWORKING**

Time : 3 hours

Maximum Marks : 100

Note : *There are two sections in this paper. Section-I is of 40 marks and is compulsory. Section-II comprises of 4 questions of 20 marks each. You may attempt any 3 questions from Section-II.*

SECTION - I (40 Marks)

1. Multiple choice questions. **10x2=20**

(a) The unit which deals with arithmetic calculation is which of the following ?

- (i) CPU
- (ii) Control unit
- (iii) ALU
- (iv) Control Bus

(b) Base Printer (BP) is a set for how many bit register ?

- (i) 8
- (ii) 16
- (iii) 32
- (iv) 64

- (c) Which of the following type of memory is volatile in nature ?
- (i) ROM
 - (ii) EPROM
 - (iii) RAM
 - (iv) Hard Disk
- (d) Which of the following device is output device ?
- (i) Scanner
 - (ii) Camera
 - (iii) Plotter
 - (iv) MICR
- (e) LCD stands for which of the following ?
- (i) Led Control Display
 - (ii) Liquid Control Display
 - (iii) Liquid Crystal Display
 - (iv) None
- (f) In which unit data transfer rate is measured ?
- (i) bits
 - (ii) bits per seconds
 - (iii) Hz
 - (iv) None of the above.
- (g) Which of the following port can accept any kind of device if able to connect ?
- (i) PS2
 - (ii) USB
 - (iii) Serial
 - (iv) None

- (h) Simplex communication is having the following characteristics of :
- (i) Two-way transmission simultaneously
 - (ii) Two-way transmission but not simultaneous
 - (iii) One - way transmission
 - (iv) None of the above.
- (i) LASER printer works on which of the following base ?
- (i) Ribbon (ii) Liquid
 - (iii) Carbon (iv) None
- (j) In RJ - 45, RJ stands for which of the following :
- (i) Red Jack
 - (ii) Right Jack
 - (iii) Roted Jack
 - (iv) None of these

Answer in short :

2. What are the building blocks of computer ? Draw a diagram and explain them. 5
3. Give description of different kinds of printers with their functionality in detail. 5
4. Define Base Pointer (BP) and Stack Pointer (SP). Explain the purpose of using these pointers. 5
5. What do you understand by communication channel ? How many types of it is there ? Explain them. 5

SECTION - II

(60 Marks)

Attempt *any three* questions :

6. Answer the following with brief description. **20**
- (a) Register (b) Control Bus
(c) Address Bus (d) Data Bus
7. Explain the following topology along with diagram, advantages and disadvantages. **20**
- (a) Bus (b) Ring
(c) Star (d) Mesh
8. Troubleshoot the following situations. Cover all possible causes. **20**
- (a) System restarting again and again.
(b) No display in monitor
(c) Disk error
(d) Blue Dump.
9. Indak industries has setup its new work centre at Surat. For its office and web based activities, the company compound has 4 buildings B1, B2, B3, and B4. The distances between buildings are B1 to B2 - 50 M, B2 to B3 - 60M, B3 to B4 - 25M, B4 to B1 - 170M, B1 to B3 - 125 M and B2 to B4 - 90M. Required no. of computers to be setup are B1 - 15, B2 - 150, B3 - 15 and B4 - 25. Now answer following : **20**

- (a) Suggest a cable layout of connections between the buildings keeping cost-effectiveness in the mind with justification. Support your answer with diagram.
 - (b) Placement of server with justification.
 - (c) Placement of Internet equipment i.e. modem and switches.
 - (d) The organisation is planning to start its direct outlets in and around same city. Suggest the most suitable LAN, MAN or WAN design layout for proper connectivity with justification.
-