

**DIPLOMA IN ENTREPRENEURSHIP AND
SKILL DEVELOPMENT**

Term-End Examination

June, 2010

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

00311

Time : 3 hours

Maximum Marks : 100

Note : There are two sections in this paper. Section-1 is of 40 marks and is compulsory. Section-2 comprises of 4 questions of 20 marks each. You may attempt any 3 questions from Section 2. There is no negative marking.

SECTION - I (40 Marks)

1. Multiple choice question. Write the correct answer :
 - (a) The unit acts as the control nervous system in CPU is : 2
(i) Control unit (ii) Central unit
(iii) Processing unit (iv) All of the above
 - (b) Stack pointer (sp) is a set for how many bit register pointing to program stack. 2
(i) 8 (ii) 16
(iii) 32 (iv) 64
 - (c) Which of the following memory is known as main memory ? 2
(i) RAM (ii) ROM
(iii) Register (iv) Hard Disk

- (d) Monitor is what kind of device ? **2**
(i) Input (ii) Output
(iii) I/O (iv) None of the above
- (e) Speaker connection is commonly how many pin connector. **2**
(i) 4 pin (ii) 3 pin
(iii) 2 pin (iv) None of the above
- (f) CRT stands for which of the following : **2**
(i) Common Radio Tube
(ii) Common Ray Tube
(iii) Cathode Ray Tube
(iv) None of the above
- (g) The printer which operate by propelling variably sized droplets of liquid or matter material (ink) onto almost any sized page. **2**
(i) Toner based printer
(ii) Impact printer
(iii) Inkjet printer
(iv) None of the above
- (h) CPU processing speed is measured in which unit ? **2**
(i) bps (ii) Hz
(iii) bits (iv) None of the above
- (i) An ethernet card has socket for : **2**
(i) RJ 11 (ii) RJ 55
(iii) RJ 45 (iv) None of the above

- (j) Half Duplex communication is having 2 characteristics of :
- (i) One-way transmission
 - (ii) Two-way transmission simultaneously
 - (iii) Two way but not simultaneous
 - (iv) None of the above
2. What are the characteristics of the computer ? 5
Explain them with their relevance.
3. Give the description of two input and two output 5
devices with their functionality in detail.
4. Define code segment and stack segment ? Also 5
mention the purpose of using them.
5. What is transmission ? How many types of 5
transmission are there ? Explain them.

SECTION - II (60 Marks)

Attempt *any three* questions.:

6. Answer the following giving a brief description of their functioning : 4x5=20
- (a) Throughput
 - (b) Address Bus
 - (c) Data Bus
 - (d) Control Bus
7. Explain the following printing technology : 4x5=20
- (a) Impact printing
 - (b) Inkjet Printing
 - (c) Laser Printing
 - (d) Dot Matrix Printing
8. Write about the following characteristics of Hard Disk Drive (HDD) ? 4x5=20
- (a) Data transfer rate
 - (b) Seek time
 - (c) Power consumption
 - (d) Shock resistance
9. A transport company has decided to book computerized tickets for its 4 destinations situated in location AA with 3 nodes, BB with 4 nodes, CC with 3 nodes to its main operating location XX with 5 nodes. The service is from XX to each individual node and vice-versa. The distance of each node from XX is b/w 200 to 300 kms. 4x5=20

- (a) What topology is best suitable for individual branches to connect their nodes and different destinations with reason ?
 - (b) Suggest best suitable communication channel for frequent data transfer within service points and justify your answer ?
 - (c) To transfer data from one branch to another branch what kind of medium is suitable and why ?
 - (d) Suggest placement of server with reasons.
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