

(Please write your Exam Roll No.)

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END TERM EXAMINATION

FIRST SEMESTER [MCA] DECEMBER-2008

Paper Code: MCA 101 Technology	Subject: Introduction to Information Technology
Paper Id: 44101 2008)	(Batch: 2004- 2008)

**Time: 3 Hours
Marks: 60**

Maximum

Note: Q. 1 is compulsory. Attempt one question from each unit.

- Q.1 (a) What do you mean by word length of computer? How does it affect the performance of a computer?
(2)
- (b) What are registers and how are they important?
(2)
- (c) Match the following:
(2)

(i)	The fastest memory in computer system is	(A)	Registers
(ii)	ALU works on the instructions and data contained in	(B)	Printers
(iii)	Parallel port is used to connect	(C)	Instruction Register
(iv)	A register that keeps track of the next instruction to be executed	(D)	Cache

- (d) Name the operating system for each of the following:
(2)
- (i) Microcomputer (ii) Mini computer (iii) Main frame computer
- (iv) Real time O.S.
- (e) List four applications suitable for database application which you encounter in your day to day life.
(2)

- (f) How does a modem work?
(2)
- (g) Distinguish between peer-to-peer and client/server architecture.
(2)
- (h) What do the following protocols do?
(2)
 - (i) TCP
 - (ii) IP
- (i) Explain the basic structure of an e-mail address with the help of an example.
(2)
- (j) Very briefly explain the following:
 - (i) JPEG
 - (ii) MPEG

UNIT - I

- Q2. (a) Draw a flow chart to print the first ten natural numbers using repetition control structure. Write the corresponding pseudo code also.
(5)
- (b) What are the different types of memories provided in a computer and why?
(5)
- Q3. (a) What is central processing unit? Describe the various units of CPU.
(5)
- (b) How are characters represented inside a computer?
(5)

UNIT - II

- Q4. (a) What are the main functions of an operating system?
(5)
- (b) With an example explain the difference between machine and assembly language.(5)
- Q5. (a) What is a compiler? Explain the compilation process.
(5)
- (b) List the advantages of a database approach.
(5)

UNIT - III

- Q6. What are the basic components of a computer network? List the different types of networks.
(5)
- Q7. What are different network topologies? List the advantages or disadvantages of each one of them.
(5)

UNIT – IV

- Q8. Explain briefly: (2+2+3+3=10)
(a) HTTP (b) FTP (c) Telnet (d) IP Address
- Q9. (a) Explain the relation between IP address and domain name with an example.
(5)
- (b) Explain briefly the various components that a multimedia based system should have.
(5)
