



RF-4791

M. C. A. (Sem. I) (A.T.K.T.) Examination

April / May – 2010

101 - Computer Organization & Fundamentals of O.S.

Time : 3 Hours]

[Total Marks : 70

Instructions :

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="M. C. A. (PART - 1)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="101 - COMPUTER ORGANIZATION & FUNDAMENTALS OF O.S."/>	<input type="text"/>
Subject Code No. : <input type="text" value="4"/> <input type="text" value="7"/> <input type="text" value="9"/> <input type="text" value="1"/>	<input type="text" value="Student's Signature"/>
Section No. (1, 2,.....) : <input type="text" value="NIL"/>	

- 1 Do as directed : (any eight) 16
- (a) What is machine language?
 - (b) Convert 2AC hexadecimal to its binary and decimal equivalent.
 - (c) Define
 - (i) Access time
 - (ii) File System
 - (d) Convert the 11110011 to its equivalent gray code.
 - (e) What is Client server Architecture?
 - (f) Draw block diagram of Computer.
 - (g) List out types of memory. Compare: RAM and ROM.
 - (h) Define: Cache memory.
 - (i) List various input devices and explain any one of them.
 - (j) Differentiate Cold Boot and Warm Boot.
- 2 Answer the following : (any three) 18
- (a) Explain each phase of Instruction cycle in detail.
 - (b) Explain the functionalities of Operating System.
 - (c) Explain Booting process in detail.
 - (d) Discuss Magnetic tape as storage device.

- 3** Answer the followings : (any **three**) **18**
- (a) Explain memory hierarchy technique used to increase the performance of machine.
 - (b) Write short note on DOS Configuration and System Files.
 - (c) Explain any six MS-DOS commands.
 - (d) Explain the working of Laser Printer.
- 4** Answer the following : (any **three**) **18**
- (a) Write short note on Networking Topologies
 - (b) List various output devices. Explain the CRT technology used for the monitor.
 - (c) Explain architecture of Windows NT.
 - (d) Explain primary memory in detail.
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