

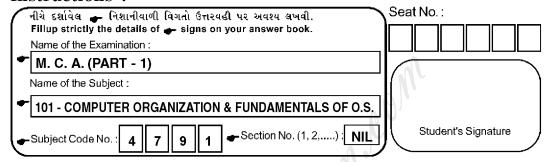
RF-4791

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:



1 Do as directed: (any eight)

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- (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.
- (i) Differentiate Cold Boot and Warm Boot.
- 2 Answer the following: (any three)

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- (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.

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3 Answer the followings: (any three)

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- (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)

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- (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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