

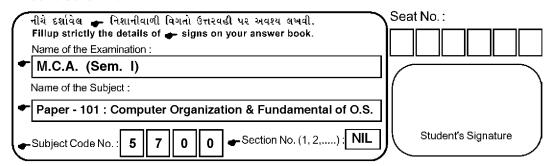
A-5700

M.C.A. (Sem. I) Examination March / April - 2015

Paper - 101 : Computer Organization & Fundamental of O.S.

Time: 3 Hours [Total Marks: 70

Instruction:



1 Do as directed:

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- (a) Define byte and word
- (b) Convert the decimal numbers 52.25 into binary number.
- (c) Convert decimal numbers 240 in octal and Hexadecimal equivalent
- (d) Find two's complement for number $1000_{(2)}$.
- (e) Subtract $11111_{(2)}$ from $1000000_{(2)}$.
- (f) Give abbreviation and meaning of OCR and OMR.
- (g) Define: resolution and refresh rate.
- **2** Do as directed:

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(a) Differentiate followings: (any three)

- **12**
- 1. Primary memory and secondary memory
- 2. Internal and external command of MS-DOS
- 3. Absolute path and relative path for file in MS-DOS
- 4. RAM and ROM.
- (b) Explain Interrupt Vector Table.

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- 3 Attempt: (any two)

 (a) Explain physical formatting of Hard-Dick
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 - (b) Explain various types of ROM.
 - (c) Draw block diagram of CPU and explain instruction execution cycle.
- 4 Attempt: (any two)

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- (a) Explain booting process of Ms-Dos in detail.
- (b) Explain phases of a compiler. Also discuss code optimization phase with example.
- (c) Explain Binary multiplication and division with using suitable examples.
- 5 Attempt: (any two)

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- (a) What is BIOS? Explain meaning and significance of device-drivers.
- (b) Briefly discuss about Assembler.
- (c) What is directory? List the content of directory in MS-DOS. Explain Directory Structure of MS-DOS.

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