



**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 :**

<p>नीचे दशांशकेल निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : M.C.A. (Sem. I)</p> <p>Name of the Subject : Paper - 101 : Computer Organization &amp; Fundamental of O.S.</p> <p>Subject Code No. : 5 7 0 0 Section No. (1, 2,.....): NIL</p>	<p>Seat No. : □ □ □ □ □ □</p> <p style="text-align: center; border: 1px solid black; border-radius: 15px; padding: 10px;">Student's Signature</p>
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- 1 Do as directed: 14
- (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: 14
- (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. 2

- 3** Attempt : (any two) **14**
- (a) Explain physical formatting of Hard-Disk.
  - (b) Explain various types of ROM.
  - (c) Draw block diagram of CPU and explain instruction execution cycle.
- 4** Attempt : (any two) **14**
- (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) **14**
- (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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