



SC-4301

M. C. A. (Sem. I) External (ATKT) Examination
April / May – 2011

Paper - 101 : Computer Organization and
Fundamental of Operating Systems

Time : 3 Hours]

[Total Marks :70

Instructions :

(1)

नीचे दशांशिक निशानीवाणी विगतो उत्तरवही पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
M. C. A. (Sem. I) External (ATKT)

Name of the Subject :
101 : Computer Organization and Fundamental of Operating Systems

Subject Code No. : 4 3 0 1 Section No. (1, 2,.....): Nil

Seat No. :

Student's Signature

1 Do as directed (any eight) 16

- (i) What is computer ? List its various applications.
- (ii) Convert 6734 Octal to its binary and decimal equivalent.
- (iii) Define :
 - (a) Computer
 - (b) File System
- (iv) Convert the 11110011 to its equivalent gray code.
- (v) Write short note on BIOS.
- (vi) Discuss Barcode reader as an input device.
- (vii) Subtract 1110011 from 11101 using 1's compliment method.
- (viii) Multiply 101111 with 1101.
- (ix) List various characteristic of computer.
- (x) Differentiate Cold Boot and Warm Boot.

2 Answer the following : (any three) 18

- (i) Write short note on Network Topologies.
- (ii) Explain the functionalities of Operating System.
- (iii) Explain Terminate and Stay Resident Programs.
- (iv) Discuss Magnetic Disk as storage device.

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- 3** Answer the following : (any **three**) **18**
- (i) Explain the working of Laser Printer.
 - (ii) Write short note on File System.
 - (iii) What do you mean by Virtual Memory ? Explain in detail.
 - (iv) Explain architecture of UNIX.
- 4** Answer the following : (any **three**) **18**
- (i) Write short note on Primary Memory.
 - (ii) List any explain any six UNIX Commands.
 - (iii) Explain the Shadow mask method used for color CRT monitors in detail.
 - (iv) What do you mean by POST ? List the Booting Sequence.
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