

**2018**

**MCA 1st Semester Examination**

**INTRODUCTION TO IT**

**PAPER—MCA-101**

*Full Marks : 100*

*Time : 3 Hours*

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

Answer Q. No. 1 and any four from the rest.

1. Answer any five questions : 5×2
- (a) Differentiate between RISC & CISC Processor.
  - (b) What is the difference between positional and non-positional number system ?
  - (c) Differentiate between Dot Matrix and Laser printer.
  - (d) What are the basic differences between DOS and UNIX operating system ?
  - (e) What is open source software ?
  - (f) What is the functions of SCSI and USB slot ?
  - (g) What is the basic technology used in chip memory ?

*(Turn Over)*

2. (a) Discuss working principles of RAM.  
(b) Discuss various Interrupts with their functionalities.  
(c) Explain the working principle of laser printer. 5+5+5
3. (a) Write down the workers principle of an optical disk.  
(b) What is the function of firewall ?  
(c) Discuss need of security and privacy in various applications. 5+5+5
4. (a) What are the different methods used to represent negative numbers ? Explain their limitations and advantages.  
(b) Explain hacking and its methodology.  
(c) Discuss linux operating system. (3+6)+4+2
5. (a) What is gray code ? What is its application ?  
(b) Discuss briefly on Touch screen ; Cache Memory and BUS. (2+1)+(3×4)
6. (a) What is fixed point method ?  
(b) Discuss characteristics of Windows 2000 OS.  
(c) Discuss cookies and spyware. 3+7+5
7. (a) If  $(54)_{10} = (204)_x$ , find the value of  $x$ .  
(b) What is bug ? What do you mean by debug ?  
(c) Discuss about device drivers and their utilities. 5+(2+3)+5

[ Internal Assessment : 30 ]

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