Seat No.:	Enrolment No.
Jean 110	

GUJARAT TECHNOLOGICAL UNIVERSITY

Subject Code: 4410601

MCA INTEGRATED – SEMESTER – I • EXAMINATION – WINTER 2015

Date: 22/12/2015

Tir	ne: 1	Name: Fundamentals of Computer 1.00pm Total Marks: 7	70
Inst	2.	ons: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Abbreviation the following: 1. VIRUS 2. ASCII 3. SMPS 4. POST 5. BIOS 6. CRT 7. MICR	07
	(b)	Do as directed: 1. Base 10 to Base 16: (234) 2. Identify Octal Value of: (ABCD2) 3. Binary to Decimal: (10111101) 4. 1's Complement of: (111010)	02 02 02 01
Q.2	(a) (b)	Differentiate following terms: 1. RAM vs ROM 2. DATA vs INFORMATION 3. INPUT DEVICE vs OUTPUT DEVICE Describe all Logical Gates with corresponding Logical Circuit and Truth Tables. OR	03 02 02 07
	(b)	What is an Operating System? Explain different types of OS in detail.	07
Q.3	(a) (b)	What is Virus? Explain Virus Prevention Techniques in detail. Explain Uses of Computer in detail. OR	07 07
Q.3	(a) (b)	Explain Unix File System in detail. What is Printer? Explain types of Printer in detail.	07 07
Q.4	(a) (b)	What is Input Device? Explain any five in detail. What is Output Device? Explain any five in detail. OR	07 07
Q.4	(a) (b)	What is OpenOffice.org? Explain use of Writer, Calc and Impress Application. What is Bus? Explain types of Bus in detail.	07 07
Q.5	(a) (b)	Explain Unix Commands: cal, date, echo, bc, pwd, passwd and who. Draw Truth Table and Logical Circuit for following Boolean Algebra: 1. (X'Y+XY') = A 2. (XYZ)+(X'YZ)+(XYZ')+(XYZ')+(XYZ)' = A OR	07 02 05
Q.5	(a) (b)	Explain Machine Cycle in detail. What is DOS? Explain Internal and External Commands.	07 07
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