Thi	s que:	stion paper contains 4 printed pages.]
54	68	Your Roll No
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		B.A. Prog./I
		(A)
		COMPUTER APPLICATIONS
		Paper CS-I
	Com	puter Fundamentals and Software Packages
		(Admission of 2004 and onwards)
Tim	ie : 3	Hours Maximum Marks : 45
	. (	(Write your Roll No. on the top immediately
		on receipt of this question paper.)
		Attempt all questions.
1.	(a)	What is a Mainframe Computer ?
		I
	(b)	Describe the key characteristics of second generation of computers.

(c) What is a Microprocessor?

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	(d)	What is a System Bus? Name the various units of system bus.	a
			2
	(e)	Describe the steps of an Instruction Cycle?	
			2
2.	Per	form the following conversions:	4
	(a)	$(24.25)_{10} = (??)_2$	
	(b)	$(5112)_{10} = (??)_8$	•
	(c)	$(101011100)_2 = (??)_{16}$	
	(d)	$(84)_8 = (??)_{10}$	
3.	(a)	What is WORM disc?	
		•	.5
	(b)	What are mass storage devices? How are they use	ful
		in storing large amount of data?	
			2
	(c)	Differentiate between Impact and Non-impa	act
		printers? Give examples of both.	
			2
	(d)	Differentiate between uniprogramming a	nd
		multiprogramming.	
			1

4.	(a) <sub>.</sub>	Explain the life cycle of a process with the help of a diagram.	
		3	
	(b)	Give examples of preemptive and non-preemptive scheduling.	
		1	
	(c)	What is virtual reality? Explain its characteristics?	
		3	
	(d)	What is software piracy and how it can be avoided?	
		2	
5.	(a)	What is an assembler ?	
		1	
	(b)	What do you understand by digital signature? How are digital signatures used while sending a document across network?	
		3	
6.	Give the full form of following abbreviations: 2		
	(a)	EEPROM	
	(b)	OCR	
	(c)	GUI	
	(d)	CD-ROM	
		•	

- 7. Write short notes on any two giving examples:
- 5

- (a) Pointing Devices
- (b) Boot Sector Virus
- (c) Data compression
- **8.** (a) Why are antivirus softwares important?

1

(b) What do you understand by user identification and user authentication? What are the different ways of authenticating user identity?

3

(c) Explain the concept of software installation and uninstallation.

2