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Your Roll No.

B.A. Prog./I

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COMPUTER APPLICATIONS

Paper-CS-I-Computer Fundamentals and Software Packages

(Admissions of 2004 and onwards)

Time: 3 Hours

Maximum Marks: 45

(Write your Roll No. on the top immediately on receipt of this question paper.)

Part A is compulsory.

Attempt any two questions from Part B.

Attempt all parts of a question together.

Part A

- 1. (a) Describe the characteristics of third generation computers. (2)
 - (b) Differentiate between:
 - (i) RAM and ROM
 - (ii) Impact and Non Impact printers. (3)
 - (c) What are registers? Explain the functions of MAR.
 (2)

P.T.O.

(d) Describe the various steps in an instruction cy	cle. (2)					
(e) What are bar code readers?	(1)					
(f) What do you understand by kinematics?	(1)					
(g) Name any two devices required for virtual real	ity.					
	(1)					
(h) Describe briefly the following:						
(i) DMA						
(ii) Time sharing operating system	(3)					
Part B						
2. (a) Explain the various types of system buses.	(3)					
(b) Convert as directed:						
(i) (637.21) ₁₀ to binary						
(ii) (100111101.1101) ₂ to hexadecimal						
(iii) Convert (445.2) ₈ to decimal						
(iv) Convert (AD3.1F) ₁₆ to binary	(4)					
(c) Draw the block diagram of a computer syste	em.					
Explain briefly the various components.	(3)					
(d) What do you understand by ports? Describe	any					
four kinds of ports.	(3)					
(e) Explain the purpose of BIOS in a computer.	(2)					

3.	(a) Describe the working of dot Matrix Printer.	(2)
	(b) Differentiate between Raster Scan Display Random Scan Display.	and (2)
	(c) List the advantages of magneto optical disk.	(1)
	(d) Explain the FCFS method of scheduling processes.	the (2)
	(e) How is the data organized on the magnetic di Explain.	sk? (3)
	(f) Explain the functions of an Operating System	(3)
	(g) What is application software? Give two examp	les. (2)
4.	(a) Differentiate between Virus, Worm and Tro Horse.	jan (3)
	(b) What do you understand by "Software Pirace List any two ways to prevent software Pirace	
	(c) Explain any two security threats for data store a computer.	d in (2)
	(d) List the main characteristics of a super compu	ter. (1)
	(e) Differentiate between Lossy and lossless compress	ion. (1) 7.O.

	(f) What do you understand by virtual memory?	(1)
	(g) Describe the paging technique to allocate mem space by the operating system.	ory (2)
	(h) What are the functions of the following cards	i:
	(i) Network Interface Card	
	(ii) Modem	
	(iii) Sound Card	(3)
5.	(a) What is multimedia? Explain the various component	ents
	of multimedia.	(3)
	(b) Differentiate between compiler and interpreter	·.
		(2)
	(c) Explain the various types of ROM available.	(2)
	(d) Give the full forms for:	
	(i) LCD (ii) DVD-ROM	(1)
	(e) Write short notes on:	
	(i) Firewall (ii) Cryptography	(3)
	(f) Describe briefly the following terms:	
•	(i) Open source software (ii) Firmware	(2)
	(g) What are the conditions necessary for a deadle	ock
	to occur?	(2)

(100)