This que	stion paper contains 3 printed	pages]				
		Roll No.				
S. No. of	Question Paper : 1955					
Unique Pa	aper Code : 62341101	GC-3				
Name of t	he Paper : Computer	: Computer Fundamentals				
Name of t	the Course : B.A. (Prog	.) Computer Science–CBCS				
Semester	: 1	•				
Duration: 3 Hours Maximum Marks: 75						
(Write your Roll No. on the top immediately on receipt of this question paper.)						
Question No. 1 is compulsory.						
Attempt any 5 questions from Question No. 2 to Question No. 8.						
	Parts of a que	stion must be answered together.				
1. (a)	What is the purpose of ROM in the computer system?					
(<i>b</i>)	(b) Convert the binary number 1111011 into the following representations: 2					
(i) 1's complement						
	(ii) 2's complement					
(c)	Write applications of Touch Screen. 2					
(d)	Define seek time and latency time.					
(e)	What do you mean by pixels? Briefly explain the three factors on which the clarity					
	of image on computer scre	en depends. 5				
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(f)What is the purpose of a device driver? 2 How many types of software are there? Explain each one with examples. (g) 4 What do you understand by Address Bus? How much memory (in GB) can be addressed (h) by a 36 bit address bus? 2. Define the relationship between hardware and software of a computer system with examples. 6 Explain any four application areas of the computer with examples. 4 3. Briefly explain impact printers and non-impact printers with two examples of each. 4 (a) Define secondary memory. Explain access types of storage devices. (*b*) 6 4. Give differences between the following with examples: (a) 6 SRAM and DRAM *(i)* EPROM and EEPROM (ii) OCR and OMR What do you understand by Utility Programs? Briefly explain any three utility (*b*) programs. 5. Convert the following: 10 *(i)* $(2049.625)_{10}$ to $(?)_2$ $(ABC.0C)_{16}$ to $(?)_{8}$ (ii)(iii) $(777.002)_8$ to $(?)_{10}$ (iv) $(23668.35)_{10}$ to $(?)_{16}$

(*v*)

 $(11001.101)_2$ to $(?)_8$

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- 6. (a) What is an Operating System? How does operating system provide security to a system?
 - (b) Differentiate between Turnaround time and Response time. 4
- 7. Perform the following binary operation:
 - (i) $(11110011.011)_2 (1010.111)_2$
 - (ii) $(110011.11)_2 + (100011.001)_2$
- 8. Write short notes on the following terms (any four):
 - (i) e-library
 - (ii) Search engine
 - (iii) SMPS
 - (iv) Cloud computing
 - (v) Anti-virus

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