[This question paper contains 2 printed pages.]

Sr. No. of Question Paper: 8592 C Roll No......

Unique Paper Code : 234593

Name of the Paper : GEHT-503 : Computer Applications

Name of the Course : B.Sc. (Hons.) Geology, Part III

Semester : V

Duration : 3 Hours

Maximum Marks : 75

## Instructions to the Candidate

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

- 2. Parts of a question should be attempted together. Attempt five (5) questions in all.
- 3. PART A (Q1) is Compulsory (27 marks).
- 4. PART B (Q2-Q7) Attempt any 4 questions. All questions carry equal marks.

## PART A (Q1) - (Compulsory, 27 marks)

1.	(a)	What are Super computers? Explain.	(3)
	(b)	Describe the main functions performed by the CPU with the he diagram.	elp of a (4)
	(c)	Explain Drum and Flatbed Plotter?	(4)
	(d)	What are the functions of a Network Interface Card?	(2)
	(e)	Explain the PS/2 and USB Ports, giving examples of each type.	(4)
	(f)	What do the following DOS commands do?  (i) CLS (ii) DIR/W	(2)
	(g)	What is the Octal representation of (2508) <sub>10</sub> ?	(2)
	(h)	Add (11101010) <sub>2</sub> and (10011101) <sub>2</sub>	(2)
	(i)	Explain MAN.	(2)
	(i)	Give the 1's complement representation of (11010011)	(2)

## PART B (Q2-Q7) - (Attempt any 4 questions)

2.	(a)	Discuss the uses of computers.	(4)		
	(b)	Explain any four characteristics of fifth generation computers.	(4)		
	(c)	With the help of a diagram, explain the different components of a consystem.	nputer (4)		
3.	(a)	What is the difference between SRAM, DRAM and SDRAM?	(6)		
	(b)	What is SMPS? What role does it play in a computer system?	(3)		
	(c)	What is MODEM? What does it do?	(3)		
4.	(a)	Write the DOS commands corresponding to the following:  (i) Copy a file 'sample.doc' to a folder named 'Exams' in D drive  (ii) Make a new directory, with the name 'TestDir'.  (iii) Remove files stating with 'S'.  (iv) Format a disk drive E.  (v) Clear the screen.	· (6)		
		(vi) Rename a directory 'Exams' to 'Computers'.			
	(b)		ating (6)		
5.	(a)	What are Scanners? How are they used for data input?	(3)		
	(b)	Explain the use and functioning of a Joystick?	(4)		
	(c)	Describe the functioning of Inkjet printers.	(3)		
	(d)	Write a short note on Speakers.	(2)		
6.	(a)	What is the difference between SIMM and DIMM?	(4)		
	(b)	8			
	(c)	Explain the Bus topology of a computer network, giving its advantage disadvantages.	(4) s and (4)		
7.	(a)	Using 1's complement and 2's complement, represent $(-A\dot{3})_{16}$ in the b number system.	inary (4)		
	(b)	number:			
		(i) $(54)_{10}$ (ii) $(11011010)_2$	(4)		
	(c)	Subtract (42) <sub>8</sub> from (73) <sub>8</sub> . Specify the result in Octal.	(4)		