Sl. No. of Ques. Paper	: 6654
Unique Paper Code	: 62341101
Name of Paper	: Computer Fundamentals
Name of Course	: B.A. Programme
Semester	: I
Duration	: 3 hours
Maximum Marks	: 75

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

Attempt any five questions from Q. Nos. 2 to 8. Question No. 1 is compulsory.

1. (a) What are Supercomputers? **2**

   (b) What is Cache memory? **2**

   (c) Differentiate between the following:

       (i) Magnetic and Optical Disk

       (ii) Static RAM and Dynamic RAM. **6**

   (d) What do you understand by Plotter? Explain *two* types of Plotter. **6**

   (e) Explain Unicode. **4**

   (f) Write any *three* functions of System Software. **3**

   (g) What is Data Mining? **2**

2. (a) Explain *two* types of Microcomputers. **4**

   (b) What are registers in CPU? Name any *five* registers with their functions. **6**

3. What do you understand by FAT? Explain the different areas created when a disk is formatted using FAT. **10**

4. (a) Differentiate between Impact printer and Non-Impact printer. **5**

   (b) Describe the working of I/O system. **5**

P.T.O.

5. (a) What do you understand by Utility Programs? Briefly explain any *five* Utility Programs.

6

(b) Explain the function of Operating System in terms of Security and Command Interpretation.

4

6. (a) Differentiate between System and Application Software.

4

(b) Define the following terms:

(i) Cloud Computing

(ii) Google Scholar.

6

7. (a) Perform Binary Operation on $1001101 + 101010$.

5

(b) Perform Binary Operation on $110001 - 10001$.

5

8. Convert the following:

(a) $(1110011 \cdot 1010)_2 = (\quad)_{10}$

(b) $(180 \cdot 68)_{10} = (\quad)_{16}$

(c) $(3B \cdot 17)_{16} = (\quad)_{10}$

(d) $(428 \cdot 25)_{10} = (\quad)_2$

(e) $(54 \cdot 27)_8 = (\quad)_{10}$

10