

98  
J-I/2111

1<sup>st</sup> Semester

10074/NB

Title of Paper

: Fundamentals of Information Technology - 113

Time Allowed

: 3 Hours

Maximum Marks: 75

**Note: Candidates are required to attempt five questions in all selecting at least two questions each from sections A and B. Section C is compulsory.**

**SECTION A**

- Q1. Define a computer. What are various categories of computers? Discuss in brief the features of each category. 15
- Q2. What do you mean by optical recognition devices? Explain any two such devices. 15
- Q3. What do you mean by memory? What are different types of memories? Discuss in detail. 15
- Q4. What do you mean by machine language? What are the advantages and disadvantages of machine language? 15

**SECTION B**

- Q5. What do you mean by binary subtraction? What are various ways of performing binary subtraction? Explain with suitable examples. 15
- Q6. Define computer network? What are various types of computer network? Discuss in detail. 15
- Q7. What do you understand by Information technology? Discuss the role of information technology in Science and Technology. 15
- Q8. Write short note on the following
- a) 3G vs 4G 05
  - b) Wi-Fi vs Bluetooth 05
  - c) E-commerce vs M-commerce 05

**SECTION C**

- Q9. a) What are the characteristics of 4<sup>th</sup> generation of computer? 03
- b) Differentiate between application software and system software. 03
- c) What are the uses of spreadsheet package? 03
- d) How weighted codes are different from non-weighted codes? 03
- e) Write short note on virtual reality. 03