

Level: Bachelor	Semester: Spring	Year : 2013
Programme: BE		Full Marks: 100
Course: Fundamentals of IT		Pass Marks: 45
		Time : 3hrs.

*Candidates are required to give their answers in their own words as far as practicable.*

*The figures in the margin indicate full marks.*

***Attempt all the questions.***

1. a) Discuss the Benefits of Information Technology in doing successful business across the world? List down the advantages and disadvantages and explain how IT is giving competitive edge to companies with an Example. 8
- b) What are the basic components of an Information System? Describe. 7
2. a) Describe the role of various types of computer Hardware in personal productivity and organizational productivity. 7
- b) Describe the main types of primary and secondary storage. 4
- c) Define Microprocessor. What are the functions of a Microprocessor? 4
3. a) What is a system software? Explain the general functions of the operating system. 7
- b) Convert the following (**Any Four**) 8
  - i.  $6248 = (?)_2$
  - ii.  $4422.4 = (?)_2$
  - iii.  $(A6C7)_{16} = (?)_8$
  - iv.  $(163)_8 = (?)_{10}$
  - v.  $(578)_{10} = (?)_8$
  - vi.  $(10101110)_2 = (?)_{16}$
4. a) What is the difference between data file and database? What are the benefits of storing data in a database instead of a data file? Differentiate between DDL and DML? 9
- b) Explain the terms : 6
  - i. Data Mining
  - ii. Text Mining
5. a) What are the common media for telecommunications? What are their respective advantages and disadvantages? 8
- b) What is Artificial Intelligence? How AI can help business organization to boost their business? Give examples. 7
6. a) Describe how IT facilitates recruiting, training, personal development and labor planning. 8
- b) Define E- Commerce and E business. What is the difference between EFT and EDI? Explain 7
7. Write short notes on: (**Any Two**) 2×:
  - a) Value Added Network
  - b) Drawback of Internet
  - c) Evaluation of a software.