

Total No. of Questions : 12]

SEAT No. :

**P745**

[Total No. of Pages : 3

**[4659] - 49****B.E. (Mechanical Engineering) (Semester - II)****B : MANAGEMENT INFORMATION SYSTEMS (Elective - IV)  
(2008 Pattern)***Time : 3 Hours]**[Max. Marks : 100**Instructions to the candidates:-*

- 1) *Attempt any three questions with selectable OR options from Section I and Section II.*
- 2) *Answer to the questions should be written in separate answer books.*
- 3) *Figures to the right indicate full marks.*
- 4) *Draw neat diagrams wherever necessary.*

**SECTION - I**

- Q1) a) Explain: [6]**
- i) Elements of MIS
  - ii) Management Process / Elements.
- b) Discuss the relationship between MIS and Management Process. [4]
- c) Define Management. Explain management functions at various organization levels. [6]

OR

- Q2) a) Define Management, Information and system. Write short note - Structure of MIS. [8]**
- b) Discussion about operational support systems and explanations about following types: [8]
- i) Transaction processing systems
  - ii) Process control systems
  - iii) Enterprise collaboration systems.

***P.T.O.***

- Q3)** a) Explain what are the Building Blocks of Information System? [6]  
b) Write a short note on behavioral decision making. [6]  
c) Explain Spiral model of SDLC with diagram. State its advantages and disadvantages. [6]

OR

- Q4)** a) Explain Herbert Simon model of Decision process. [6]  
b) Explain Spiral Shape SDLC Model. [6]  
c) Compare MIS and DSS. [6]
- Q5)** a) Defining the term Knowledge Management System and explain about elements of Knowledge Management System using block dig. and example. [8]  
b) Explain waterfall model of SDLC with diagram. State its advantages and disadvantages. [8]

OR

- Q6)** a) Explain with a block diagram system development life cycle. [8]  
b) Write note on Data Flow Diagrams and ER Diagrams. [8]

**SECTION - II**

- Q7)** a) What is Verification? What are the terms involved in verification. [6]  
b) Write a short note on software matrix & software model? [6]  
c) Explain UML design methodology. [6]

OR

- Q8)** a) State various Modern Software Design Methodologies. [4]  
b) Differentiate between Validation & verification? [6]  
c) What are the different levels of CMM? Explain any three. [8]

- Q9) a)** Write a short note on: [8]
- i) Reliability
  - ii) Availability
  - iii) Maintenance.
- b) Explain the types of software maintenance. [8]

OR

- Q10)a)** What is the need of software testing? Explain software testing approaches with one application each. [8]
- b) Explain various software qualities attributes. [4]
- c) What is the difference between audit and inspection. [4]

www.sppuonline.com

- Q11)a)** How do you achieve material management in an industry with use of MIS explain with block diagram and flow chart. [8]
- b) Explain the case study on 360° Feedback system. [8]

OR

- Q12)a)** Explain the application of MIS in automobile industry with reference to marketing management with block diagram and flow chart. [8]
- b) Explain the case study of SAP implementation in business management. Its implications and advantages and disadvantages. [8]

☺☺☺