

(6 pages)

S.No. 9024

P 22 MBA 3 ES 5

(For candidates admitted from 2022–2023 onwards)

M.B.A. DEGREE EXAMINATION, NOVEMBER 2023.

Business Administration – Elective

DECISION SUPPORT SYSTEM

Time : Three hours

Maximum : 75 marks

PART A — (20 Marks)

Answer ALL questions.

- I. (A) Multiple choice questions : (5 × 1 = 5)
1. Which of the following is / are the components of a Decision Support System?
- (a) Knowledge Base
 - (b) Model Management System
 - (c) User Interface
 - (d) All of these
2. Which of the following is not the type of the data model?
- (a) Relational Data Model
 - (b) Semi-structured data Model
 - (c) Process-based Data Model
 - (d) Entity-Relationship Model

3. A Database Management System is a type of _____ software.
- (a) It is a kind of application software
 - (b) It is a type of system software
 - (c) It is a kind of general software
 - (d) It is a type of training software
4. Which among the following is one of the stages in NLP pipeline?
- (a) Sentiment Analysis
 - (b) Spell Checking
 - (c) Syntax Analysis
 - (d) Tokenization
5. In Software Maintenance which type of testing is being used?
- (a) System Testing
 - (b) Integration Testing
 - (c) Regression Testing
 - (d) Unit Testing

(B) Fill in the blanks : (5 × 1 = 5)

6. A _____ can integrate all multiple variables and produces an outcome.
7. Within a _____ data flow diagrams may be used to show how data is processed at different stages in the system.
8. _____ diagrams can be used to represent database schemas.
9. _____ techniques look at the meaning of the word.
10. Techniques for fault base testing _____

II. Answer ALL questions : (5 × 2 = 10)

11. Define Decision Support System.
12. What are the benefits of using process modeling?
13. What is meant by data base and structure of DSS?
14. What is meant by Natural Language Processing?
15. What is a Data Acquisition System?

PART B — (5 × 5 = 25)

Answer ALL the questions, choosing either (a) or (b).

16. (a) Explain the advantages and disadvantages of decision support systems.

Or

- (b) What are the characteristics of a decision support system?

17. (a) What do you mean by mathematical programming optimization? State the characteristics and assumptions of linear programming in optimization.

Or

- (b) What is the concept of model base management subsystem in DSS?

18. (a) What do you mean by DBMS? Describe the database management system architecture?

Or

- (b) Define Database languages in DBMS. What are the types of database language?

19. (a) Define GUI. How do perform a graphical user interface?

Or

- (b) What are the techniques in natural language processing?

20. (a) Define development process. What is the phase in the development of DSS?

Or

- (b) What is meant by integration? How does integrating testing involve in decision support system?

PART C — (3 × 10 = 30)

Answer any THREE questions.

21. Explain the Decision Support System. Discuss the various types and application of DSS.
22. State the process map for training and testing of the four predictive models.
23. Explain the Data base. Discuss the structure of decision support system in database management system.

24. Briefly outline the overview of graphics in dialog management.

25. Describe the software and hardware in development of decision support system in briefly.
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