

MCA/1ST SEM/MCAP 1105 (BACKLOG)/2019
MANAGEMENT INFORMATION SYSTEM
(MCAP 1105)

Time Allotted : 3 hrs

Full Marks : 70

Figures out of the right margin indicate full marks.

*Candidates are required to answer Group A and
any 5 (five) from Group B to E, taking at least one from each group.*

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

Group - A
(Multiple Choice Type Questions)

1. Choose the correct alternative for the following: **10 × 1 = 10**
- (i) Which of the following is NOT an objective of MIS?
 (a) Facilitate the decisions-making process
 (b) Provide requisite information at each level of management
 (c) Support decision-making
 (d) Recruit people for system.
- (ii) An information system that supports the planning and assessment needs of executive management is
 (a) DSS (b) TPS
 (c) ERP (d) MIS
- (iii) In MIS system design, the sources of information may be categorized as _____ and _____.
 (a) internal, external (b) personal, organizational
 (c) useful, unuseful (d) constructive, destructive
- (iv) Which of the following individuals typically have less formal, advanced educational degrees and tend to process rather than create information?
 (a) Knowledge workers (b) Executives
 (c) System analysts (d) Data workers.
- (v) A system is called _____ when the inputs, process and the outputs are known with certainty.
 (a) probabilistic (b) deterministic
 (c) open (d) close.
- (vi) Which of the following is included in the Office automation systems?
 (a) Word processing (b) Electronic mail
 (c) Voice mail (d) Electronic calendaring.

- (vii) A context diagram is used
 (a) as the first step in developing a detailed DFD of a system
 (b) in systems analysis of very complex systems
 (c) as an aid to system design
 (d) as an aid to programmer.
- (viii) _____ is a tabular method for describing the logic of the decisions to be taken.
 (a) Decision tables (b) Decision tree
 (c) Decision method (d) Decision data
- (ix) HIPO stand for
 (a) Hierarchy Input Process Output (b) Hierarchy Input Plus Output
 (c) Hierarchy Plus Input Process Output (d) Hierarchy Input Output Process.
- (x) Tactical information is needed for
 (a) meet government requirements (b) day to day operations
 (c) long range planning (d) short range planning.

Group - B

2. (a) What is System? What are the major activities of a System? Why business considered as a System?
 (b) A University has rule for students to give a grade based on % of marks.
 (i) If % of marks ≥ 90 then 'O' grade
 (ii) If % of marks ≥ 80 and ≤ 89 then 'E' grade
 (iii) If % of marks ≥ 70 and ≤ 79 then 'A' grade
 (iv) If % of marks ≥ 60 and ≤ 69 then 'B' grade
 (v) If % of marks ≥ 50 and ≤ 59 then 'C' grade
 (vi) If % of marks ≥ 40 and ≤ 49 then 'D' grade
 (vii) Otherwise fail.
 Draw a decision table for the above problem. **6 + 6 = 12**
3. (a) What is meant by system analysis? Explain the data flow diagram.
 (b) What is HIPO diagram? What are the advantages and disadvantages of HIPO diagram? **6 + 6 = 12**

Group - C

4. (a) Discuss the prerequisites of an effective MIS?

- (b) What is role of information in decision making? Discuss with the help of suitable examples.

7 + 5 = 12

5. (a) In business pyramid, identify and define the roles of various IS in the bottom, middle and top levels of the organization.

- (b) Explain the differences between formal and information systems.

6 + 6 = 12

Group - D

6. (a) Explain the different phases of decision making.

- (b) Describe the working principle of virtual office system.

7 + 5 = 12

7. What is flowchart? What are the advantages of using flow chart? Draw the flow chat to generate prime number and even and odd number.

3 + 4 + 5 = 12

Group - E

8. (a) Explain knowledge management system and describe its characteristics in detail.

- (b) Why there is more and more use of expert system? What are the main purposes of expert system? Briefly outline the structure of an expert system.

5 + 7 = 12

9. (a) With suitable example explain the purpose and role of Decision Support System in a business. What are the different components of DSS?

- (b) Why information security plays a vital role?

10 + 2 = 12