Name : .....

Roll No. : .....

Invigilator's Signature : .....

CS/MBA (OLD)/SEM-3 (FT) & 5 (PT)/SM-303/2009-10

2009

COMPUTER AIDED MANAGEMENT

Time Allotted : 3 Hours | Full Marks : 70

The figures in the margin indicate full marks.

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

GROUP – A
(Multiple Choice Type Questions)

1. Choose the correct alternatives of the following : 10 × 1 = 10

   i) In supervise learning

      a) only input stimuli are fed into the network

      b) both input and output are known

      c) desired output and algorithm are known

      d) network is controlled by user.

   ii) The neural network does not have

      a) process elements b) axons

      c) weights d) input.

   iii) Validation refers to

      a) assessing overall value of system

      b) checking if system is performing as designed

      c) checking if system is doing right things

      d) computerized the systems.

iv) Artificial intelligence may have

a) intelligent agents b) visual perception

c) both (a) & (b) d) none of these.

v) Business intelligence is a technical tools which takes input from

a) DSS b) KMS

c) Data warehouse d) All of these.

vi) LISP, PRO LOG are the best languages for solving problems in the domain of

a) graphics b) networking

c) AI d) user interface design.

vii) Knowledge engineering involves

a) definition and classification of knowledge

b) knowledge acquisition, representation and use

c) knowledge design

d) none of these.

viii) Genetic algorithm is beneficial because they

a) fixed optimal solution

b) simulate biological models

c) reduce search efforts

d) provide truth maintenance.

ix) The component of DSS that includes the database is

a) user interface

b) model management

c) dialogue management.

x) Best-first search is a kind of

a) informed search b) blind search

c) binary search d) none of these.

GROUP – B
(Short Answer Type Questions)

Answer any *three* of the following. 3 × 5 = 15

2. What is data warehousing ? How does it differ from data mining ? 2 + 3

3. Define enterprise information system (EIS). Compare group support system and EIS. 2 + 3

4. Explain different components of knowledge management system. 5

5. Discuss supply and value chains with suitable examples. 5

6. What is neural network ? Describe how neural network can perform data mining. 2 + 3

GROUP – C
(Long Answer Type Questions)

Answer any *three* of the following. 3 × 15 = 45

7. a) Explain genetic algorithm and its applications. 5

   b) What do you mean by AI ? List out some applications of AI ? 2 + 3

   c) What do you mean by knowledge base ? How is it applicable in AI system development ? 2 + 3

8. a) Define these terms : Star Schema, Snow flake Schema, Data Marts and Fact constellation. 8

b) How does data mining work ? Explain the characteristics of data mining. 7

9. a) Describe grid computing. What are the benefits of enterprise grid computing ? 10

b) Describe expert system development strategy. 5

10. a) Discuss with suitable diagram :

How could you relate MIS with DSS ? Explain. 5

b) What is EIS ? Describe briefly with suitable example. 5 + 5

11. a) Differentiate between data and information. When does information become knowledge ? 3 + 3

b) Illustrate the structure of an expert system. How does it work ? 6

c) Management is often equated with decision making. Why ? 3

12. Write short notes on any *three* of the following : 3 × 5

a) Knowledge representation in AI

b) Hybrid support system

c) Fuzzy logic

d) Intelligent agents

e) Global integration.