

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

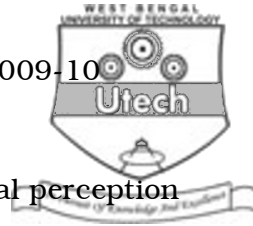
*The figures in the margin indicate full marks.*

*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 :  $10 \times 1 = 10$ 
  - 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 )**

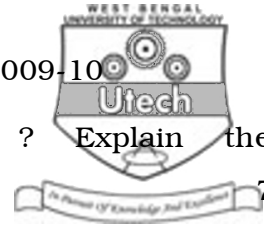
Answer any *three* of the following.  $3 \times 5 = 15$

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.  $3 \times 15 = 45$

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.