Name : ....

Roll No. : ....

Invigilator's Signature : ....

CS / B.TECH (IT) / SEM-6 / IT-602 / 2011

2011

MANAGEMENT INFORMATION SYSTEM

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 for the following :   10 × 1 = 10

    i)   DSS tools are

        a)   specific s/w   b)   specific h/w

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

    ii) The full form of MRP is

        a)   Material requirement planning

        b)   Manufacturing resource planning

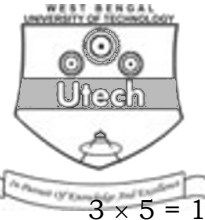   c)   Management resource planning

        d)   Shared resources.

iii) GIS is a type of

    a) EIS   b) MIS

    c) DSS   d) none of these.

iv) Closed loop MRP is

    a) a series of functional area applications

    b) a single functional application

    c) a series of non-functional area applications

    d) none of these.

v) Cases of MIS are of

    a) 2 types   b) 3 types

    c) 4 types   d) none of these.

vi) The full form of BPR is

    a) Business Process Reengineering

    b) Basic Process Remodelling

    c) Business Process Revolution

    d) none of these.

vii) The phases of each unit of a supply chain are

    a) source, procure, manufacture & deliver

    b) supply, procure & deliver

    c) manufacturer, service & transfer

    d) none of these.

viii) Which case of MIS depicts problem as well as existing solution ?

    a) Analytical case   b) Issue case

    c) Both (a) and (b)   d) None of these.

ix) Open & closed system classification is done on the basis of

    a) origin

    b) predictability of output

    c) system manifestation

    d) interaction to environment.

x) 3 phases of Simon's model are

    a) planning, staffing, controlling

    b) planning, design, controlling

    c) intelligence, design, choice

    d) none of these.

GROUP – B
(Short Answer Type Questions)
Answer any *three* of the following. 3 × 5 = 15

2. Explain the following items :

   a) Thumb Rule

   b) Homeostasis in terms of system environment

   c) Decoupling   5

3. Write what you know about the ACID property ? What is video conferencing and what are its uses ?   2 + 3

4. Explain the relative advantages and disadvantages of 'thin and tall' and flat organizational structures.

5. Discuss the features of SCM.

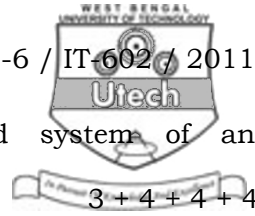6. What is 'Feedback control loop' ? When is it used ?   3 + 2

GROUP – C
(Long Answer Type Questions)
Answer any *three* of the following.   3 × 15 = 45

7. a) Explain the design phases of MIS.

   b) Distinguish between Conceptual, Logical and Physical depictions of MIS.
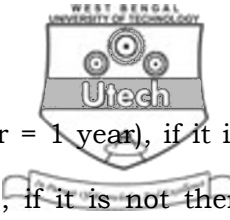
   c) Classify 'system' and explain them in brief.

d) Define Open system and Closed system of an organisation.

$3 + 4 + 4 + 4$

8. a) Explain the phases in Decision making process.

b) In a Banking organization, Bank provides certain rates of Interest to the customers depending on the investment for how many years and the customer is shareholder or not.

The conditions are

i) { Investment year = 1 year & customer is a shareholder }, Bank provides 14% interest.

ii) { Investment year = 1 year & customer is not a shareholder }, Bank provides 13% interest.

iii) { Investment year = 2 years & customer is a shareholder }, Bank provides 15% interest.

iv) { Investment year = 2 years & customer is not a shareholder }, Bank provides 14% interest.

v) { Investment year = 3 years & customer is a shareholder }, Bank provides 16% interest.

vi) { Investment year = 3 years & customer is not a shareholder }, Bank provides 15% interest.

Checking starts from (Investment year = 1 year), if it is not then (Investment year = 2 years), if it is not then (Investment year = 3 years),

with respect to this given problem :

i) Describe this problem with the help of "IF – THEN – ELSE" logic.

ii) Draw the Decision tree.

iii) Draw the Decision table.

c) Explain prescriptive and descriptive models of decision making.   3 + (3 × 3) + 3

9. a) What are transaction processing systems ? Give examples along with explanation.

b) With suitable diagrams, mention the differences between data marts & operational data stores.

c) What are the different methods of Transaction processing ? Explain them in brief.

d) What is Artificial Intelligence ? How does it help business computing ?   4 + 3 + 5 + 3

10. a) What is ERP ? What are the tools available for development of an ERP ?

    b) What are the tangible and intangible benefits of ERP ?

    c) Discuss how MIS can be utilized in functional areas of business like Marketing & Manufacturing system.

    5 + 5 + 5

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

    a) Transaction processing cycle

    b) Business process reengineering

    c) Management reporting system

    d) Role of manager

    e) Decision support system.

    =============