

S.D.E.

M.B.A. (I.T.) SEM-II (2013 COURSE) : SUMMER - 2018
SUBJECT: ANALYSIS AND DESIGN OF INFORMATION SYSTEMS

Day : Friday
Date : 01/06/2018

S-2018-4519

Time : 02.00 P.M. TO 05.00 P.M.
Max. Marks: 70

N.B.

- 1) Attempt any **THREE** questions from Section – I and any **TWO** questions from Section – II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in the **SEPARATE** answer books.

SECTION – I

- Q.1 Define system. Explain its characteristics. What are types of system with examples? (14)
- Q.2 What is SRS? Give one example of SRS and its format. (14)
- Q.3 a) Explain the concept of data flow diagram with example. (07)
- b) Draw DFD notations for : (07)
- i) External Entity
 - ii) Data items
- Q.4 Discuss the activities involved in system implementation. (14)
- Q.5 Write short notes on : (14)
- a) Fact finding tools
 - b) CASE TOOL
 - c) Role of DBA

SECTION – II

- Q.6 A political party has decided to appoint its volunteers for public relations. It has decided structure as follows. (14)
- A state will have 5 zones. Each zone will be handled by a person called 'PRAVAKTA'. In each zone there will be at least 5 DISTRICTS and a district co-ordinator is called a PALAK- MANTRI. Each district will have TALUKAS and taluka co-ordinator is called SAMPARKAK. Taluka will have villages and cities as SHAKHA and co-ordinators for them is called SHAKHA_PRAMUKH. A PRABHAG is formed by grouping 5 or more Shakhas and is headed by PRABHAG_PRAMUKH.
- Computerized system is to be built for maintaining records of these volunteers so as to help the designer to draw ER diagram.
- Q.7 Draw decision tree and decision table for following case. There are two classes (14)
- for tax computing salary earners and business man. For businessmen there is no facility of standard deduction and for salary earners there is standard deduction as under.
- 33% of gross salary if it is below Rs. 1 lakh
25% of gross salary if it gross salary is between Rs. 1 to 5 lakh
Zero % of gross salary if gross salary is above Rs. 5 lakhs
Additional standard deduction of Rs. 5000 is permissible to female employees.
- Q.8 What is normalization and explain its types in brief with example. (14)

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