

S.D.E.

M.C.A. Sem - III : WINTER - 2018
SUBJECT: SOFTWARE ENGINEERING

Day: Tuesday
Date: 04/12/2018

W-2018-4801

Time: 10.00 AM TO 1.00 PM
Max. Marks: 80

N.B.:

- 1) Attempt any **FIVE** 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 **SEPARATE** answer books.
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SECTION-I

- Q.1** Define software and software engineering. Explain principles of software engineering. (10)
- Q.2** What is software inspection? Explain the role of each member involved in software inspection process. (10)
- Q.3** Explain the role of system analyst in an organization. (10)
- Q.4** Describe version control process in detail. (10)
- Q.5** What is CASE? Explain two CASE tools used in system analysis and design. (10)
- Q.6** What is the need of user manual? Explain with example. (10)
- Q.7** Write short notes on: (Any **TWO**) (10)
- a) Project Dictionary
 - b) Spiral Model
 - c) Structured Programming

SECTION-II

- Q.8** ABC manufacturing Ltd. is going to implement the inventory management system. Following activities are taken into the consideration. (15)
- Every day maintain the raw material availability report.
 - Report to purchase department for minimum availability of raw material.
 - Get the request from production department to issue the material.
 - Calculate the average material consumption report every day and weekly basis.
 - Calculate the ratio of consumption and stock availability of material.
- Write the SRS for the above given case study.
- Q.9** In a university campus people are coming for various work related to various department of university. It is decided to install a computer terminal at each entry point, security gate, so that record of each and every person entering into university campus is maintained for vigilance purpose. A record containing person's identity, nature of work, department to visit, time –in and time –out is to be maintained. Design a data entry screen and also state input validations as well as design a report layout. (15)
- Q.10** Maharashtra Electronics engaged in sales of electronic goods manufactured by different brands like LG, Samsung, Sony etc. , Company is interested to develop MIS for its sales operations , the sales procedure followed is as follows: (15)
- a) Customer enquiries about model for specific brand.
 - b) If model is available Invoice is prepared along with delivery challan(DC).
 - c) Payment is made by cash.
- Draw Context level data flow diagram and Entity relationship diagram for the above case.