

**M.C.A. SEM - III (CHOICE BASED CREDIT SYSTEM 2011 &
2012 COURSE) : SUMMER - 2018
SUBJECT: SOFTWARE ENGINEERING**

Day: **Thursday**
Date: **03/05/2018**

Time: **02.00 PM TO 05.00 PM**
Max Marks. 100

S-2018-1794

N.B.

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

SECTION - I

- Q.1**
- a) Is the Feasibility Study is required in software development? Explain it. (10)
 - b) Role of RAD and prototyping model in software development. (05)
- Q.2**
- a) Explain the characteristics of good SRS in software development. (10)
 - b) What is Validation? In Software development why verification taken important role? (05)
- Q.3**
- a) Role of User Interface Design in software development? Explain it. (10)
 - b) Elaborate the structured programming briefly. (05)
- Q.4**
- a) Define Configuration Management? Explain Software Configuration Management (SCM) process. (10)
 - b) Why testing strategies needed for conventional software development? (05)
- Q.5**
- a) Explain concept of Re – engineering. Is the data and user interface taken role in Re – engineering? Why? (10)
 - b) What is a role of Database management tool in software engineering? (05)
- Q.6**
- Write short notes on any **THREE** of the following (15)
- a) Agile Modeling
 - b) Interface design and programming tools.
 - c) White Box Testing
 - d) Refinement Modularity

SECTION - II

- Q.7**
- A ‘Bharati’ Software development company wants to develop a software for e – governance system. As a part of a developer what suggestions will you give for following factors? (20)
- i) GUI Interface for e – governance.
 - ii) Various sectors rules followed by development of e – governance system.
 - iii) Report generation for e – Governance system.

P.T.O.

Q.8 Bharat Sanchar Nigam Limited (BSNL) would like to automate its billing process. Customer applies for connection. BSNL calculate the call charges. Each customer required to pay charges bi-monthly according to the call rates. Customer can choose to pay either by cash/ card. A receipt is generated on payment. Monthly reports are provided to the BSNL.

- i)** Design context level Data flow Diagram **(06)**
- ii)** Design first level Data flow Diagram **(08)**
- iii)** Design Entity relationship Diagram **(06)**

Q.9 a) Design a questionnaire to collect information from computer studied students regarding e – learning model satisfaction by the educational society **(10)**

b) What is the need of GUI? Explain features of modern GUI. **(10)**

*

*

*