

B.C.A. (2010 COURSE SEM- IV : SUMMER - 2018

SUBJECT : SOFTWARE ENGINEERING

Day : **Friday**

Time : **10.00 AM TO 01.00 PM**

Date : **27/04/2018**

S-2018-1733

Max. Marks : 70

N. B. :

- 1) **Q. No. 1 is COMPULSORY.**
 - 2) Attempt **ANY FOUR** questions from **Q. No. 2 to Q. No. 7.**
 - 3) Figures to the right indicate **FULL** marks.
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- Q. 1** For various appointments on various councils and committee, university conducts election. The voters are categorized as Graduate Voters, Teachers, PG Teachers, Principals, HODs and Management Representatives. A person can be a voter in one or more category. The voter can vote at one of the 52 voting centers in 4 districts that are under the jurisdiction of the university. A valid voter can file a nomination as a Candidate for one or more council or committee. Various documents along with photograph are to be submitted while submitting candidature.
- a) Draw E-R Diagram. (10)
 - b) Design the Candidate Registration interface layout. (04)
- Q. 2**
- a) Define software engineering. Give its need. (07)
 - b) State the role of various members involved in software development. (07)
- Q. 3**
- a) "Spiral model combines the iterative nature of Prototyping model with systematic approach of Waterfall model." Justify. (07)
 - b) Discuss various types of feasibility studies. (07)
- Q. 4**
- a) Explain any two traditional methods of requirement gathering. (07)
 - b) Why cost benefit analysis? Discuss its process. (07)
- Q. 5**
- a) Differentiate Quality Assurance and Quality Control. (07)
 - b) Explain the process of version control in SCM. (07)
- Q. 6** State the various review techniques. Explain software inspection in detail. (14)
- Q. 7** Write short notes on **ANY TWO** of the following: (14)
- a) Fourth Generation Techniques
 - b) CASE
 - c) Features of modern GUI

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