

Total No. of Questions – [06]

Total No. of Printed Pages: 1

G.R. No.	
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DECEMBER 2021 - ENDSEM EXAM
T. Y. B. TECH. (COMPUTER ENGINEERING) (SEMESTER - I)
COURSE NAME: SOFTWARE ENGINEERING AND
PROJECT MANAGEMENT
COURSE CODE: CSUA31183
(PATTERN 2018)

Time: [1 Hr]

[Max. Marks: 30]

Instructions to candidates:

- 1) Answer Q.1 OR Q.2, Q.3 OR Q.4, Q.5 OR Q.6.
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

- Q.1 a Outline the types of COCOMO model and brief the use of COCOMO model. [4]
- Q.1 b Consider a software project using semi-detached mode ($a_1 = 3.0$, $a_2 = 1.12$, $b_1 = 2.5$, $b_2 = 0.35$) with 40,000 lines of code and the salary for each software engineer is 20,000/- per month Calculate Effort Estimation, Development time estimation, Cost Estimation. [6]
- OR
- Q2 a Compare CPM and PERT. [4]
- Q2 b Draw and analyze Gantt Chart with an example. [6]
- Q.3 a Relate and elaborate the risk identification tools and techniques. [4]
- Q.3 b Demonstrate different software maintenance activities. [6]
- OR
- Q.4 a Examine the different SCM elements. [4]
- Q.4 b Use the basic concepts of Configuration Management for project development. [6]
- Q.5 a Assemble various phases and draw architecture of DevOps. [4]
- Q. 5 b Design implementation model of DevOps using DevOps components. [6]
- OR
- Q.6 a Investigate and assemble various DevOps adaptation process. [4]
- Q. 6 b Select and defend different activities in DevOps lifecycle. [6]