# Sanjay Ghodawat University, Kolhapur

2020-21

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

EXM/P/09/00

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| **Year and Program: 2021-2022** | **School of Science** | **Department: MCA** |
| **Course Code: MCA 107** | **Course Title: Software Engineering and Project Management** | **Semester :I** |
| **Day and Date: Thursday 10 Jun 2021** | **End Semester Examination** | **Time : 2 Hrs.**<br>**Max Marks : 50** |

**Instructions**: 1) All Questions are compulsory.
2) Draw neat diagram if necessary.

| | | Marks | Bloom's Level | CO |
|---|---|---|---|---|
| **Q.1** | **Answer/Solve the following (any Two)** | | | |
| a) | Define Software Engineering and its various application domains with example. | 8 | 1 | CO1 |
| b) | Explain feasibility in Software Engineering and Project Management? | 8 | 2 | CO1 |
| c) | Explain Spiral model. | 8 | 3 | CO3 |
| **Q.2** | **Answer/Solve the following (any two)** | | | |
| a) | Develop different steps for design component level. | 8 | 3 | CO2 |
| b) | Construct state chart for ATM machine and explain behavioral model in software engineering and project management. | 8 | 3 | CO3 |
| c) | Explain different methods of black box testing. | 8 | 2 | CO2 |
| **Q.3** | **Answer/Solve the following (any two)** | | | |
| a) | Categorize different kind of risk comes under the software project and explain different strategies for risk management. | 9 | 4 | CO4 |
| b) | Write note on Software CASE Tools. | 9 | 2 | CO3 |
| c) | i. Estimate risk impact and risk exposure where, 18 components to be made with 100 LOC for each component where each LOC cost is $14 and chance of occurring risk is 80 percentages.<br>ii. Estimate risk exposure where, each component LOC cost is Rs 140, Risk impact factor is 30,000 and chance of occurring risk is 70 percentages. | 9 | 5 | CO4 |

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