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**DEPARTMENT OF INFORMATION TECHNOLOGY**

**ODD SEMESTER (JULY 2024 - NOV 2024)**

**QUESTION BANK**

**U20ITCM08 AUTOMATION TECHNIQUES AND TOOLS -DEVOPS**

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| **UNIT I INTRODUCTION** | | |
| The Advent of Software Engineering - Software Process, Perspective and Specialized Process Models – Software Project Management: Estimation - Developers vs IT Operations conflict. | | |
| **PART A** | | |
| **S.NO** | **QUESTIONS** | **BTL** |
| 1 | What is software engineering? | K1 |
| 2 | Compare software engineering and software product. | K2 |
| 3 | What is a prototype? | K2 |
| 4 | Mention any two advantages of RAD model. | K2 |
| 5 | Which problems of software engineering is addressed by mathematical model? | K2 |
| 6 | Define   1. Aspect 2. Cross-cutting issues | K1 |
| 7 | Mention any two advantages of Aspect Oriented Software Development. | K2 |
| 8 | List the four values of Agile development. | K2 |
| 9 | Brief the disadvantage of Agile methodology. | K2 |
| 10 | Summarize the role of a project manager. | K2 |
| 11 | Brief the P’s in software project management. | K2 |
| 12 | How the projects are classified in COCOMO model? | K1 |
| 13 | Give any four examples for agile methodologies. | K2 |
| 14 | Explicate risk analysis? | K2 |
| 15 | What is component in component-based development model? | K2 |
| **PART B** | | |
| **S.NO** | **QUESTIONS** | **BTL** |
| 1 | Discuss notable changes in software development practices. | K2 |
| 2 | List out the advantages and disadvantages of Iterative waterfall model | K2 |
| 3 | Explain spiral model. | K2 |
| 4 | Narrate the steps involved in developing component-based development model. | K2 |
| 5 | Describe the Developer and IT Operations conflict. | K2 |
| **PART C** | | |
| **S.NO** | **QUESTIONS** | **BTL** |
| 1 | Discuss the stages of software process. | K2 |
| 2 | Explain waterfall model in detail. | K2 |
| 3 | Expound V-model. | K2 |
| 4 | Describe the working of Agile model in detail. | K2 |
| 5 | Detail out the COCOMO model. Consider a project needs 40000 LOC to be generated. Calculate the effort, time for development and people needed to develop the product. Assume relevant values for the constants. | K3 |