priyanshu kumar prasad

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School of Engineering
First Theory Sessional Examination
Odd Semester (AS: 2024-25)

B. Tech: CSE [Year: 3rd] [Semester: 5th]

| Course Title: Software Engineering<br>Course Code: BCS3501 | Max Marks: 30<br>Time: 1 Hr. |
|---|---|

*Instructions: 1- Mention any assumptions made.*
*2- Notations have usual meaning.*

| | SECTION 'A'<br>Q.N.1. Attempt all parts of the following: | Course Objective | Marks |
|---|---|---|---|
| a) | Define the term Software Engineering. | Co1 | 1 |
| b) | Explain the various characteristics ofsoftware. | Co1 | 1 |
| c) | Differentiate between software and hardware in brief. | Co1 | 1 |
| d) | What are the important activities that are carried out during the feasibility study? | Co2 | 1 |
| e) | Explain the significance of SDLC models in software engineering. | Co1 | 1 |
| | **SECTION 'B'**<br>**Q.N.2. Attempt any two parts of the following:** | **Course Objective** | **Marks** |
| a) | Compare and contrast Prototype Model and Spiral Model. | Co1 | 7.5 |
| b) | What are Formal Technical reviews and how are they conducted? | Co2 | 7.5 |
| c) | What is SRS Document? Explain goals, use, benefits and properties of SRS documents. | Co2 | 7.5 |
| | **SECTION 'C'**<br>**Q.N.3. Attempt any one part of the following** | **Course Objective** | **Marks** |
| a) | List and explain the different methods of requirement elicitation (collection). | Co2 | 10 |
| b) | Write short note on CASE tools. | Co2 | 10 |
| c) | What is Axiomatic specification of requirements? Explain with example. | Co2 | 10 |

*Table 1: Mapping between Cos and questions*

| Cos | Questions Numbers | Total Marks |
|---|---|---|
| Co1 | 1a, 1b.1c,1e, 2a. | 11.5 |
| Co2 | 1d, 2b, 2c, 3a, 3b, 3c. | 46 |