**Enrollment No: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**GANPAT UNIVERSITY - U. V. PATEL COLLEGE OF ENGINEERING**

**B. TECH. SEMESTER V (COMPUTER ENGINEERING / INFORMATION TECHNOLOGY)**

**SECOND INTERNAL EXAMINATION - OCTOBER 2021**

**2CEIT502 : SOFTWARE ENGINEERING**

**Time: 1 Hour] [Total Marks:20**

**Instructions:**

1. Figures mentioned in the right side indicates full mark for the question
2. Be precise and to the point while answering questions.
3. Assume necessary data whenever needed.

**Attempt the given questions (Any five):**

| **Q1.** | Explain requirement analysis and modeling approaches in brief. | **[4]** |
| --- | --- | --- |
| **Q2.** | What is the requirement elicitation step in requirement engineering? What problems you may face during requirement elicitation? | **[4]** |
| **Q3.** | What is the purpose of doing requirement analysis? What problems you might face during analysis of requirements? | **[4]** |
| **Q4.** | Suppose Tata Consultancy Services wants to develop a software which consists of 230 KLOC. The average salary of the employee is ₹12,000. Identify the type of project first and then calculate the development **time**, **efforts and cost** for the identified category of the project. | **[4]** |
| **Q5.** | Identify and categorize the type of relationship you can use in following instances (use **✔** tick mark**)**:   | **Instances** | **Association** | **Aggregation** | **Generalization** | | --- | --- | --- | --- | | A country has a capital city. | **✔** |  |  | | A dining philosopher uses a fork. | **✔** |  |  | | A file is an ordinary file or a directory file. |  |  | **✔** | | The files contain records. |  | **✔** |  | | A polygon is composed of an ordered set of points. |  | **✔** |  | | A drawing object is text, a geometrical object, or a group. |  |  | **✔** | | The Modems and keyboards are input / output devices. |  |  | **✔** | | A route connects two cities. | **✔** |  |  | | **[4]** |
| **Q6.** | Prepare the **use case** diagram for the vending machine. A vending machine is such a machine where people use to buy beverages on self -service. The machine delivers beverages after a customer selects and pays for it. A repair technician performs the periodic service on the vending machine necessary to keep it in good working condition. A repair technician performs the unexpected service on the vending machine to repair a problem in its operation. A stock clerk adds an item into the vending machine to replenish its stock of beverages. | **[4]** |

**---------- END OF PAPER ----------**