United International University (UIU)

Dept. of Computer Science & Engineering (CSE)

Final Term Exam:: Trimester: Spring 2023
Course Code: CSE 469, Course Title: PROJECT MANAGEMENT
Total Marks: **40**   Duration: 2 hours

Any examinee found adopting unfair means will be expelled from the trimester / program as per UIU disciplinary rules.

Answer all the questions.

The Scenario

We want to develop a job portal where employers can post advertisement for jobs online. Sign up / Registration for the employers is necessary when they want to post a job description. Only a company can be an employer. Individuals cannot be an employer. On the other side, job seekers have to register on this site. Once they do the registration, they can see the available jobs. Now answer the followings

1. Find the DET (Data Element Type) and RET (Record Element Type) for the calculation of ILF (Internal Logical Files)   [CO3]   **5**

2. Write the Use Case for "Post a job" in proper format.   [CO2]   **5**

3. Mention 2 nonfunctional requirements in proper format for the above system with specification.   [CO2]   **5**

4. Develop a Gantt chart for the above project and mention the rationale/causes of different assumptions or estimations.   [CO5]   **5**

5. Compare different document review techniques   [CO4]   **5**

6. Shortly brief on CMMI Levels and explain in terms of software project improvisation process.   [CO4]   **5**

7. Justify the complexity category according to COCOMO of the project described in above scenario. For 3000 lines of code of semi-detached type, find the all the COCOMO parameters.
[CO5]   **5**

Software project	a_b	b_b	c_b	d_b
Organic	2.4	1.05	2.5	0.38
Semi-detached	3.0	1.12	2.5	0.35
Embedded	3.6	1.20	2.5	0.32

8. Prepare and demonstrate the Project Management document as a group wise covering the following components on your project: estimation through COCOMO model and Function point methods, Scheduling through a PM tool, document and code review techniques, best practices of change management and application of anyone for your project, briefing on different levels of CMMI, process improvement concepts etc. **Already evaluated in classroom**. [CO2-CO5]   **5**