

Mid-West University
Examinations Management Office
Birendranagar, Surkhet
End Semester (Alternative/Physical) Examinations -2078

Bachelor level/ B.Sc CSIT /6th Semester

Time: 3hrs

Subject : Software Engineering (COM462)

Full Marks : 60

Pass Marks : 30

Candidates are required to give their answers in their own words as far as practicable. The figure in the margin indicates full marks.

Attempt all questions

[6x10 = 60]

1. a) Explain the different types of testing. **[5]**
b) What do you mean by system engineering? Explain the principal stages of the waterfall model. **[5]**
2. Why water fall model is called plan driven testing? Explain the steps involved in water fall model. **[10]**
3. What is the purpose of safety proof in software testing? Why system testing is required? Differentiate between verification and validation. **[10]**

OR

What is the main purpose of cleanroom software development technique? State and explain steps included in cleanroom software development. Why are cleanroom techniques not widely used? Justify.

4. "Cost estimation is required before initiating any project". Justify this statement and explain various cost estimation techniques in details. **[10]**
5. What do you mean by object-oriented design? Explain the process of object-oriented design along with its advantages and disadvantages. **[10]**

OR

What is prototype model in software engineering? Explain with example.

6. a) Explain the importance of UI prototyping. **[5]**
b) Why control models are important? Explain different control models in brief. **[5]**

THE END