B.Sc.- III (Information Technology) CBCS Pattern Semester-VI
005 / UBITT603.4 - Paper-III - Elective-IV : Software Engineering

P. Pages : 2

Time : Three Hours

Max. Marks : 40

———

Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and labelled diagram and use supporting data wherever necessary.
3. Avoid vague answer and write specific answer related to question.

Either:

1. a) Explain changing nature of software in detail. **4**

b) Write a note on. **4**

i) Process pattern.

ii) Process assessment.

OR

c) Explain capability maturity model integration in brief. **4**

d) Describe the evolving role of software. **4**

Either:

2. a) What is functional and non functional requirements? Explain. **4**

b) Explain incremental process model in detail. **4**

OR

c) Explain waterfall model in detail. **4**

d) What is interface specification? Explain. **4**

Either:

3. a) Explain. **4**

i) Context model.

ii) Behavioral model.

b) What is software architecture? Explain. **4**

OR

c) Write a note on. **4**

    i) Design process.

    ii) Design quality.

d) Explain architectural styles and patterns in detail. **4**

Either:

4. a) Explain a strategic approach to software testing. **4**

b) Write a note on software quality. **4**

OR

c) What is white Box testing? Explain. **4**

d) Explain metrics for maintenance. **4**

5. Solve all the questions.

a) Define software engineering. **2**

b) Write a note on loser requirements. **2**

c) Explain object model in detail. **2**

d) What is system testing? Explain. **2**

****