AJ-1347

B.C.A. (Part–III) Term End Examination, 2021-22

SOFTWARE ENGINEERING (Paper-IV)

Time : 3 hours] **[Maximum Marks : 100**

Note : *Answer all questions. One question from each unit is compulsory. All questions carry equal marks.*

[Unit-I]

1 (a) Explain layered technology in software engineering.

(b) What is legacy software ? Explain its characteristics and discuss the reasons for keeping a legacy system in organizations.

OR

(a) What do you mean by process framework ? Explain in detail.

(b) Explain prototyping model with its advantages and disadvantages.

[Unit-II]

2 Explain the following :

(a) Requirements engineering process.

(b) Analysis pattern.

OR

Explain the following :

(a) Software requirements.

(b) Characteristics of software requirements.

[Unit-III]

3 (a) Explain the elements of analysis model.

(b) Explain scenario based modelling in detail.

OR

(a) What is requirement analysis ? Explain in detail.

(b) Explain class based modelling in detail.

[Unit-IV]

4 (a) What are the phases involved in software testing life cycle ?

(b) Define software project management. Discuss the aspects and advantages of software project management.

OR

Explain the following :

(a) Design engineering. (b) System testing.

[Unit-V]

5 (a) Explain the evolution of software in detail.

(b) Discuss the difference between verification and validation.

OR

Explain the following :

(a) Risk management. (b) Software cost estimation.