Ex/EE/PE/H/T/422B/2022

BACHELOR OF ELECTRICAL ENGINEERING EXAMINATION, 2022

(4th Year, 2nd Semester) PRINCIPLES OF SOFTWARE ENGINEERING

Time: Four hours Full Marks: 70

Answer Any five questions (5×14)

Numbers on the right side indicates the marks allotted for that question

(i) Differentiate between verification and validation.(ii) Explain boundary value analysis.(iii) Justify the importance of testing process	[5] [4] [5]
(i) Explain classical Waterfall Model.(ii) What are the problems we face in classical waterfall model?	[8] [6]
(i) What is the necessity of unit testing? Write down all unit test considerations.(ii) Explain about system testing.	[7] [7]
Explain in detail the following s/w process models with a neat diagram. (i) Evolutionary process model. (ii) Incremental Process model.	[7] [7]
(i) Discuss the differences between black box and white box testing.(ii) Explain the different integration testing approaches.	[7] [7]
(i) What are the responsibilities of a software project manager? (ii) Assume that the size of an organic type software product has been estimated to be 3 source code. Assume that the average salary of a software developer is Rs. 15,000 per n the effort required to develop the software product, the nominal development time, and develop the product.	nonth. Determine
How the software requirements are gathered? Who does the requirement gathering? Who of requirement analysis and specification phase?	at is the outcome [10+2+2]
(i) What are the different processes of code review? Explain any two of them.(ii) How internal documentation is done in the coding phase?	[10] [4]