A (Printed Pages 4)

(20622) Roll No.

BCA-IV SEM

18018

B.C.A. Examination, June-2022

SOFTWARE ENGINEERING

(BCA-403)

Time : Three Hours] *[Maximum Marks : 75*

Note : Attempt **all** the sections as per instructions.

Section-A

(Very Short Answer Type Questions)

Note:- Attempt all the **five** questions. Each questions carries 3 marks. Very short answer is required no exceeding 75 words.

1. What is feasibility study? What are the contents we should contain in the feasibility report? 3

2. Differentiate between verification and validation. 3
3. Explain Agile methodology in short. 3
4. Is it possible to estimate software size before coding? Justify your answer with suitable example. 3
5. Compare Development Testing with Regression Testing. 3

Section-B

(Short Answer Type Questions)

Note:- Attempt any **two** questions out of following three questions. Short answer not exceeding 200 words is required. Each questions carries 7½marks.

6. How does "Project Risk" factor affect the spiral model of software development? 7½

7. What is the difference between SRS document and design document? What are the contents of both the documents? 7½

8. What are the characteristics to be considered for the selection of life cycle model? Explain clearly. 7½

Section-C

(Long answer Type Questions)

Note:- Attempt any **three** questions out of following **five** questions. Each questions carries 15 marks. A detailed answer is required.

9. Define module coupling and explain different types of coupling in detail. 15

10. Describe in detail the complete Software maintenance process. 15

11. Explain all levels of COCOMO model. Assume that the size of an organic software product has been estimated to be 32,000 lines of code. Determine the effort required to develop the software product and the nominal development time. 15

12. Describe 'Rapid Application Development' (RAD) model in detail. 15

13. (i) What are the limitations of waterfall model? 7½

(ii) How some of the limitations of waterfall model are overcome by iterative methods? 7½