11. Explain the following :

(a) Testing Objectives

(b) Testing Principles

12. Explain the following :

(a) Function-oriented design

(b) Object-oriented design

13. Explain the following :

(a) Size-Oriented Metrics

(b) Function-Oriented Metrics

BCA–08

December – Examination 2023

BCA (Part II) Examination

SOFTWARE ENGINEERING

Paper : BCA-08

Time : 3 Hours] [*Maximum Marks : 70*

Note :– The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

Section–A 7×2=14

(Very Short Answer Type Questions)

Note :– Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 2 marks.

1. (i)   What is Stress Testing ?

   (ii) What is Software Quality ?

   (iii) Define Validation.

   (iv) What is Unit Testing ?

   (v)   Define Coupling.

   (vi) What is refinement ?

   (vii) What is user interface ?

Section–B   4×7=28

(Short Answer Type Questions)

Note :– Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 7 marks.

2. What are the characteristics of good software ? Explain.

3. What do you mean by modularity and abstraction ?

4. Compare Waterfall model and Spiral model.

5. Explain Prototype Model.

6. Discuss importance of planning and design in Software Engineering.

7. Write short note on Software Decomposition.

8. Compare functional and non-functional software requirements.

9. Explain Data Flow Diagram with suitable example.

Section–C   2×14=28

(Long Answer Type Questions)

Note :– Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 14 marks.

10. Discuss the advantages and disadvantages of Software Re-engineering.