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(21223)

Roll No.

B.Sc. (Hon's.) Com. Sci. - V Sem.

NS-3375

B.Sc. (Honours) Computer Science

Examination, Dec.-2023

Software Engineering

BHCS-502

Time : Three Hours]

[Maximum Marks : 75

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

Section-A

(Very Short Answer Questions)

Note : Attempt **all five** questions. Each question carries **three** marks. Very short answer is required not exceeding

75 words.

5×3=15

P.T.O.

1. What is White Box Testing and Black Box Testing?
2. What is an interview and write its type to collect information.
3. What is Requirement Analysis? Why it is important?
4. Describe the necessity of Unified Modelling Language.
5. Explain software development Life Cycle.

Section-B

(Short Answer Questions)

Note : Attempt any **two** questions out of following **three** questions. Each question carries **7.5** marks. Short answer is required not exceeding **200** words.

$$2 \times 7.5 = 15$$

1. Define all the stages of waterfall model?
Explain its pros and cons?

2. What is Software Design? Who does it?
Why it is important and what are the steps involved in it?
3. Write a detailed note on
 - (a) Software Maintenance
 - (b) Software Risk Analysis and Management

Section-C

(Detailed Answer Questions)

Note : Attempt any **three** questions out of following **five** questions. Each question carries **15** marks. Answer is required in detail. $3 \times 15 = 45$

1. What is feasibility study? Explain the different types of feasibility study in software development life cycle?

2. What is UML? Explain various types of UML diagrams?
3. Explain constructive Cost Model (COCOMO).
4. What is Software Testing? Explain the types of Testing.
5. Compare and contrast three software development life cycle models: water-fall model, prototyping model and spiral model.