

Seat No. : \_\_\_\_\_

# SI-126

September-2020

B.Sc., Sem.-VI

## CC-307 : Computer Science (Software Engineering-II)

Time : 2 Hours]

[Max. Marks : 50

- Instructions :** (1) All Questions in **Section-I** carry equal marks.  
(2) Attempt any **THREE** questions in **Section-I**.  
(3) Question No. 9 in **Section-II** is **compulsory**.

### Section-I

1. Write the following :
  - (A) Explain programming practices in detail with its types. 7
  - (B) Explain Code verification in detail with its type. 7
  
2. Write the following :
  - (A) What is testing ? Explain white box testing techniques in detail. 7
  - (B) Explain testing principals & guidelines. 7
  
3. Write the following :
  - (A) Explain FP based and COCOMO model based estimation. 7
  - (B) Explain project management activities. 7
  
4. Write the following :
  - (A) What is risk management ? Explain with its strategies. 7
  - (B) Explain Risk identification & assessment. 7
  
5. Write the following :
  - (A) Explain coding style with its guidelines. 7
  - (B) Explain project team roles with its structures in detail. 7
  
6. Write the following :
  - (A) Explain error, fault, failure & defect and also explain with example. 7
  - (B) What is test case ? Explain in detail with example. 7

7. Write the following :
- (A) Explain black box testing techniques in detail. 7
- (B) Explain Risk mitigation, monitoring and control in detail. 7
8. Write the following :
- (A) Explain verification and validations in detail. 7
- (B) Explain testability in detail. 7

### Section-II

9. Attempt any **Four** questions : 8
- (1) Software engineering primarily aims on :
- (a) reliable software (b) cost effective software
- (c) reliable and cost effective software (d) None of the above
- (2) A COCOMO model is
- (a) Common Cost Model (b) Constructive Cost Model
- (c) Complete Cost Model (d) Comprehensive Cost Model
- (3) SRS stands for
- (a) Software Requirements Specifications
- (b) Software Requirements Solutions
- (c) System Requirements Solutions
- (d) None of the above
- (4) Basis path testing is
- (a) Both black and white box (b) White box testing-method
- (c) Black box testing method (d) None
- (5) Software testing is done to
- (a) correct a error (b) Show absence of defect
- (c) find an error (d) None of these
- (6) Which of the items listed below is not one of the software engineering layers ?
- (a) Process (b) Tools
- (c) Methods (d) Manufacturing
- (7) What do you understand by V&V in software testing ?
- (a) Verified Version (b) Version Validation
- (c) Verification and Validation (d) Version Verification
- (8) White box techniques are also classified as
- (a) Design based testing (b) Structural Testing
- (c) Error Guessing Technique (d) None