



NP – 1025

27

VI Semester B.C.A. Examination, June/July 2025

(NEP Scheme) (F+R)

COMPUTER APPLICATIONS

CA - E2 : b) Software Testing (Elective – II)

Time : 2½ Hours

Max. Marks : 60

**Instruction :** Answer *all* the Parts.

PART – A

I. Answer **any four** questions, **each** question carries **two** marks. (4×2=8)

- 1) What is boundary value testing ?
- 2) Differentiate between validation and verification.
- 3) What is slice based testing ?
- 4) Define system level threading.
- 5) What are equivalence classes ?
- 6) What is Bottom-up integration testing ?



PART – B

II. Answer **any four** questions. **Each** question carries **five** marks. (4×5=20)

- 7) Explain software testing life cycle.
- 8) Explain the class test case for triangle problem.
- 9) Differentiate between conventional testing vs object oriented testing.
- 10) Write a note on GUI (Graphical User Interface) testing in detail.
- 11) Explain random testing, mention its advantages and disadvantages.
- 12) State the difference between black-box and white-box testing (BBT and WBT).

P.T.O.



## PART – C

- III. Answer **any four** questions. **Each** question carries **eight** marks. **(4×8=32)**
- 13) Explain the testing strategy for Simple ATM system (SATM). 8
- 14) Explain commission problem with all its possible conditions. 8
- 15) Explain Test-then-code cycle with example. 8
- 16) a) What is use case based testing ? Explain its key concepts. 4  
b) Explain components of decision table. 4
- 17) Explain levels of testing in different life cycle models. 8
- 18) a) Explain Weak Normal Equivalence Class Testing (WNECT). 4  
b) Explain types of threads in system testing. 4