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).

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

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