

- N.B: (1) All questions are compulsory.
 (2) Figures to the right indicate marks.
 (3) Illustrations, in-depth answers and diagrams will be appreciated.
 (4) Mixing of sub-questions is not allowed.

- Q1. **Attempt the following (any THREE):** (15)
 (A) Discuss the phases of project management process.
 (B) What are the internal & external responsibilities of project manager?
 (C) Discuss the steps in change management process.
 (D) Define software metric. State the types & their rôle.
 (E) With example explain WBS.
 (F) Which std. attributes an effective software metric should hold?
- Q2. **Attempt the following (any THREE):** (15)
 (A) Discuss the configuration management process.
 (B) What is SCI? Explain its life cycle.
 (C) Explain about risk assessment activity.
 (D) What is the role of Use Case estimation while managing OO projects?
 (E) What is CASE? Write in brief about CASE tool.
 (F) What are agile modeling practices?
- Q3. **Attempt the following (any THREE):** (15)
 (A) Discuss the core & additional steps of Six Sigma.
 (B) Define terms: Crash, Error, Error guessing, Error seeding, Test driver.
 (C) Discuss goals or objectives of software testing.
 (D) Explain any 5 principles of static testing.
 (E) Discuss the need of test case specifications.
 (F) Explain the life cycle of defect.
- Q4. **Attempt the following (any THREE):** (15)
 (A) 'Author of the program should not perform Black box testing.' Justify the statement.
 (B) Describe aim & objectives of equivalence partitioning.
 (C) Discuss the advantage of cause effect graphing.
 (D) Draw flow graph for given code & identify basis set of independent path, also suggest test case for each.

```

Void check()
{if (ch>5)
  flg=1
  else if(ch>9)
    flg=flg-5
    else if(ch>2)
      flg=flg-2
    else
      flg=0
}

```

 (E) How class-level testing is useful in OO software testing?
 (F) Explain following quality dimensions of Web applications: Structure, performance, Security, Compatibility, Navigability, Usability.

- Q5. Attempt the following (any THREE): (15)
- (A) Explain various roles played by project manager.
 - (B) List the phases of Unified process. What are the objectives of these phases?
 - (C) Explain the phases of static testing.
 - (D) Explain the concept of fault base testing.
 - (E) Explain the levels of CMM process.
 - (F) Discuss the advantages of White box testing.

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T.Y. B.Sc Sem V
Soft Eng

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