

MAR/APRIL 2024

Total No. of Questions : 5]

SEAT No. :

PB839

[Total No. of Pages : 2

[6204]-33

S.Y.M.C.A. (Management)

IT - 33 : SOFTWARE TESTING AND QUALITY ASSURANCE

(Revised 2020 Pattern) (Semester - III)



Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Draw neat diagrams whenever necessary.*

Q1) Write a detailed test plan for university result declaration system, which provides the facility to view students result (sem/year) wise, system should have facility to apply for rechecking/revaluation with payments. Your plan should include the desired test documents. **[10]**

OR

Design suitable test cases for above application. **[10]**

- Q2)** a) What is software quality assurance? Explain SQA activities. **[5]**
b) What are software quality metrics. Explain process quality metrics. **[5]**

OR

- c) Define SQA. Explain building blocks of SQA. **[5]**
d) What is software reliability. Explain any two reliability measurement factors. **[5]**

- Q3)** a) Explain various white box testing techniques. **[5]**
b) Explain with diagram V and W model. **[5]**

OR

- c) Explain Non-functional testing types. **[5]**
d) Write in detail levels of testing. **[5]**

P.T.O.

Q4) a) What is static technique review. Explain review process and walkthrough. [5]

b) Explain black box testing techniques. [5]

OR

c) What is mutation testing. Explain. [5]

d) Explain project risk & product risk. [5]

Q5) a) Explain different types of computer aided testing tools (CAST). [5]

b) Defect life cycle. [5]

OR

c) Jmeter [5]

d) Error Guessing [5]

