RJ-1748

M. Sc. (IT) (Sem. VII) Examination

March / April - 2017

Software Engineering

Time : **3** Hours]   [Total Marks : **70**

Instruction :

નીચે દર્શાવેલ ☞ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ☞ signs on your answer book.

Name of the Examination :

☞ **M. Sc. (IT) (SEM. 7)**

Name of the Subject :

☞ **SOFTWARE ENGINEERING**

☞Subject Code No.: | 1 | 7 | 4 | 8 | ☞Section No. (1, 2,......) : **NIL**

Seat No. :

Student's Signature

1   (a)   Answer the following Questions in Brief. (Any Five)   10

(1)   In the web site project 20 errors were found before deployment and 10 defects found after deployment of the project. Find the DRE of this project.

(2)   What is difference between composition and aggregation?

(3)   Explain any one tool for project scheduling and tracking.

(4)   How to describe the use cases?

(5)   Describe the strategy when the risk of technology update s is not accepted by employee? How to overcome it?

(6)   Why software deadline are unrealistic?

(b)   Consider the scenario of web customer purchasing   8
from e-commerce site like amazon. Draw use case diagram with the necessary assumption also create a sequence diagram for the exam completion process.

2 Answer the following questions in detail : (any **three**)   **18**

    (1) What is risk of a project and how it can be identified and assessed?

    (2) How do we monitor a project and explain any one technique in detail?

    (3) What are design patterns? Explain behavioural pattern.

    (4) How selecting and refining perform in project scheduling explain with suitable example.

3 Answer the following questions : (any **six**)   **18**

    (1) The project is scheduled for the 10 months for the budget of Rs. 2,70,000 at the end of the eighth month the project is 70% complete and the cost occurred till now is Rs. 2,40,000 Rs. Find CV and SV.

    (2) Define SQA plan.

    (3) What is use of fork and join in activity diagram?

    (4) What are the advantages of design pattern?

    (5) What is risk exposure?

    (6) Discuss metrics for Software Quality.

    (7) Discuss SQA plan in short.

4 (a) Explain the attributes of web based applications for creation of social networking web site like face book. What other attributes are desirable?   **8**

    (b) Answer the following questions : (any **two**)   **8**

       (1) Explain the types of SE resource in detail.

       (2) Discuss Object Behaviour model.

       (3) Write detailed note on Components of Software Quality Assurance.