Printed pages: **Sub Code: RIT-051**

Paper Id 113501 **Roll No.** | | | | | | | | | | |

B. Tech.
(SEM V) THEORY EXAMINATION, 2018-19
SOFTWARE PROJECT MANAGEMENT

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

Note: **1.** Attempt all Sections. If require any missing data; then choose suitably.
2. Any special paper specific instruction.

SECTION A

1. Attempt *all* questions in brief. **2 x 7 = 14**

a. What is software project management?
b. What are the objectives of Software Project Management?
c. Name any four automation testing tools?
d. Write the simple formula for CPI & SPI.
e. What is desk checking?
f. What do you mean by software testing?
g. Define Risk.

SECTION B

2. Attempt any *three* of the following: **7 x 3 = 21**

a. Write short note on work breakdown structure with its type.
b. What is meant by earned value analysis? What are the different types of earned value indicators? Describe any two earned value indicators with suitable examples?
c. Explain the SEI/CMM Process model, its maturity levels and the key process areas for each level.
d. Compare product life cycle and project life cycle with an example.
e. Illustrate the various Software Configuration Management (SCM) activities.

SECTION C

3. Attempt any *one* part of the following: **7 x 1 = 7**

(a) Differentiate between PERT and CPM.
(b) Differentiate between Gantt chart and milestone chart.

4. Attempt any *one* part of the following: **7 x 1 = 7**

(a) Write a short note on Risk Breakdown Structure (RBS).
(b) What do you mean by version control and explain the activities participating in version control.

5. Attempt any *one* part of the following: **7 x 1 = 7**

(a) What is black box testing? List out advantages and disadvantages of black box testing.
(b) What is white box testing? List out advantages and disadvantages of white box testing.

6. Attempt any *one* part of the following: **7 x 1 = 7**

(a) Briefly explain COCOMO model for cost estimation for all category of projects.
(b) Explain need and identification of SPM. Also, write a vision and scope document according to IEEE standard in respect of SPM.

7. Attempt any *one* part of the following: 7 x 1 = 7

(a) What do you mean by Code Review? Also discuss the difference between code inspection and code walkthrough.

(b) Suppose you are managing a software development project. The project is expected to be completed in 8 months at a cost of $10000 per month. After 2 months you realize that the project is 30% completed at a cost of $40000. You need to determine whether the project is on-time and on-budget after 2 months. Let's see how healthy the project is by calculating the cost variance and schedule variance.