Sub Code: NOE077

Paper Id: **910189**   **Roll No:** ☐☐☐☐☐☐☐☐☐☐☐☐☐

B.TECH.
(SEM-VII) THEORY EXAMINATION 2019-20
SOFTWARE PROJECT MANAGEMENT

Time: 3 Hours   *Total Marks: 100*

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. **Attempt *all* questions in brief.**   2 x 10 = 20
    a. Explain the Software Project Management.
    b. Explain the difference between product life cycle and project life cycle.
    c. What do you mean by software project? How does it differ from any other project?
    d. Explain Cost performance Index.
    e. Explain Gantt Charts.
    f. Explain Pair Programming.
    g. Explain the various activities covered by software project management in short.
    h. What do you mean by work break down structure?
    i. Define the Risk.
    j. Describe the risk management process in detail.

SECTION B

2. **Attempt any *three* of the following:**   10 x 3 = 30
    a. Explain the component of a software project management plan document.
    b. Explain the principle of software project process.
    c. Explain the term "Project scope" with a suitable example.
    d. What is CPM? Explain the interpretation Earned value analysis metrics.
    e. Differentiate between CPM and PERT in detail.

SECTION C

3. **Attempt any *one* part of the following:**   10 x 1 = 10
    (a) What do you mean by 'Earned value analyses? Discuss in detail.
    (b) Discuss the following terms (i) Cost variance (ii) Schedule variance

4. **Attempt any *one* part of the following:**   10 x 1 = 10
    (a) What is mean by software configuration management? Why is it required?
    (b) Describe the following terms : (i) Program Verification (ii) Program Correctness

5. **Attempt any *one* part of the following:**   10 x 1 = 10
    (a) What do you mean by project scheduling? What are the scheduling objectives?
    (b) Explain the term Change Request Management in detail.

6. **Attempt any *one* part of the following:**   10 x 1 = 10
    (a) Explain the SEI Capability Maturity Model in detail.
    (b) Explain the COCOMO Model in detail.

7. **Attempt any *one* part of the following:**   10 x 1 = 10
    (a) Explain SQA Activities.
    (b) Explain Software Reviews with its types.