

SAKET GYANPEETH'S
SAKET COLLEGE OF ARTS, SCIENCE AND COMMERCE, KALYAN (EAST)
T.Y.B.SC (IT) SEMESTER VI PRELIMINARY EXAM MARCH 2018

SUBJECT: Project Management

Time: 2^{1/2} hours

Total Marks: 75

- N.B.:** (1) All questions are compulsory.
(2) Make suitable assumptions whenever necessary and state the assumption made.
(3) Answers to the same question must be written together.
(4) Numbers to the right indicate marks.
(5) Draw neat labelled diagrams whenever necessary.
(6) Use of Non-programmable calculators is allowed.

Q1. Attempt Any Two. **[10]**

- a. Analyze waterfall model in theory.
- b. What are the three generations of software development? Compare them.
- c. Discuss Boehm's staffing principles.
- d. Describe the evolution of software economics over three generations.

Q2. Attempt Any Two. **[10]**

- a. Discuss the life cycle, defined for modern software development process.
- b. Define the term "Artifacts". List the five sets of artifacts.
- c. Explain "Production Stage" of software development in detail.
- d. Map the process exponent parameters of COCOMO to top 10 principles of modern process.

Q3. Attempt Any Two. **[10]**

- a. Explain any five top level workflows in detail.
- b. Write a short note on Major milestones.
- c. Explain forward looking approach for cost and schedule estimating process.
- d. Define work breakdown structure. Given difference between conventional and evolutionary WBS. List issues related to conventional WBS.

Q4. Attempt Any Two **[10]**

- a. Discuss briefly, default roles in a software Line-of-Business organization.
- b. Explain the term "Software project team evolution".
- c. Explain the basic field of Software change order with the help of template of the same.
- d. Compare the life-cycle focus of project organization with respect to software architecture team.

Q5. Attempt Any Two. **[10]**

- a. Explain the three management indicators metrics in details.
- b. Write a short note on pragmatic software metrics.
- c. Enlist the factor of tailoring a software process framework. Explain scale factor in detail.
- d. Explain the two dimensions of process discriminate with neat diagram.

P.T.O.

Q6. Attempt any Two.

[10]

- a. Explain the term “Next Generation software Economics”.
- b. Explain the steps or strategy to make error free software.
- c. Write an exhaustive note on “Culture Shift”
- d. Explain how model process transition claims that to be fruitful.

Q7 Attempt any Three.

[15]

- a. What is Early Risk Resolution? How it is carried out in the iterative process as early in the life cycle? Give its advantages.
- b. Discuss in detail Software Management Best Practices.
- c. What kind of changes we have to make for transition to modern processes in modern software economics?
- d. Explain the possible improvements in the next generation cost estimation models over the conventional ones.
- e. Explain how balancing the top ten software management principles achieve economic results
- f. Explain in detail the culture shifts in modern process transition.
