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TCS–701/TIT–701

B. Tech. (CS/IT) (Seventh Semester)
Mid Semester EXAMINATION, 2017
SOFTWARE PROJECT MANAGEMENT

Time : 1:30 Hours] [*Maximum Marks : 50*

Note : (i) This question paper contains two Sections.

(ii) Both Sections are compulsory.

Section—A

1. State whether the given statements are True *or* False : (1×5=5 Marks)

   (a) Software quality assurance is an umbrella activity.

   (b) A proven methodical life cycle is necessary to repeatedly implement and manage projects successfully.

   (c) Quality planning is the process of developing a quality plan for customer.

   (d) Effective software project management focuses on four P's which are people, performance, payoff, product.

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(e) Software quality assurance is not an umbrella activity.

2. Attempt any *five* parts : (3×5=15 Marks)

(a) What is software project management ?

(b) What is the difference between feasibility study and planning ?

(c) Suggest any *five* improvements to the basic waterfall process for the elimination of development risks associated with a project.

(d) What do you mean by project breakdown structure ?

(e) Explain Pragmatic software cost estimation.

(f) How to identify and estimate the cost of project ?

Section—B

3. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)

(a) With a neat sketch, explain the Waterfall model. How was it used as a source for the "conventional" software process ?

(b) How the effectiveness of the team can be improved ?

(c) Discuss the *three* generations of software economics focusing on the methodology followed in each.

4. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)

(a) Differentiate between SLOC and Function Point as a measure of software size. Explain how FP is used for determining the expressiveness of various languages.

(b) Explain how improvement in the software process can result in better software productivity.

(c) Write short notes on the following :

(i) Management artifacts

(ii) Engineering artifacts

5. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)

(a) Differentiate between principles of conventional software engineering and principles of modem software management.

(b) How can automation be improved through software environment ?

(c) Explain the iterative process.

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