

Instruction: (1) All questions are compulsory.

(2) Make suitable assumptions wherever necessary and state the assumptions made.

(3) Answers to the same questions must be written together.

(4) Numbers to the right indicate marks.

(5) Draw neat labeled diagrams wherever necessary.

(6) Use of Non-programmable calculators is allowed.

1. Attempt any **TWO** question of the following : [10]
 - (a) List Boehm's top ten principles of conventional software management.
 - (b) What are the important trends in improving software economics?
 - (c) What are the factors that can be abstracted with software economics? Explain in detail.
 - (d) What are the three generations of Software development? Compare them.

2. Attempt any **TWO** question of the following : [10]
 - (a) State and explain any 10 Principles of Conventional Software Engineering.
 - (b) Explain the top 10 principles of Modern software management.
 - (c) Draw the diagram of the Phases of the Life-cycle of a software development process. Describe Inception Phase in detail.
 - (d) Write a note on Vision document.

3. Attempt any **TWO** question of the following : [10]
 - (a) Explain Iteration workflows.
 - (b) Write a note on Periodic Status Assessment.
 - (c) Enlist the top seven workflows and explain any four of them in detail.
 - (d) "In order to ensure the consistency on various artifacts, the major milestones concentrate on objective, operational capabilities and release issues". Explain this statement.

4. Attempt any **TWO** question of the following : [10]
 - (a) Write a note on 'Line-of-Business' organizations.
 - (b) Explain "Round Trip Engineering" with a neat diagram.
 - (c) Explain the basic fields of Software Change Order with the help of a template of the same.
 - (d) Write a note on Software Architecture Team activities.

5. Attempt any **TWO** question of the following : [10]
 - (a) Explain the seven core metrics in managing a modern process.
 - (b) Explain the four quality indicators' metrics in detail.
 - (c) Enlist the factors of tailoring a software process framework. Explain the scale factor in detail.
 - (d) Write a short note on pragmatic software metrics.

6. Attempt any **TWO** question of the following : [10]
 - (a) List the top 10 Software Management Principles.
 - (b) Explain the term "Next generation Software economics".
 - (c) What are the strategies to make error-free software?
 - (d) Write a note on a Modern Project Profiles.

7. Attempt any **THREE** question of the following : [15]
 - (a) What are the attributes of a good estimate?
 - (b) Explain the Construction Phase of a life cycle.
 - (c) How do you classify the joint management reviews? Explain all its types.

- (d) Explain the three types of project environment. Write about four important environment disciplines that are critical to the management context and the success of a modern iterative development process
- (e) What are the basic characteristics of Good Metrics?
- (f) How was the conventional software process characterized and how is a modern iterative development process framework characterized?

Paper Discussion Schedule for all Subjects: T.Y.B.Sc.IT (Sem. VI)

Date	Day	Timing	Centre
17 April 2017	Monday	9.00 a.m. to 11.00 a.m.	Dadar
17 April 2017	Monday	12.00 p.m. to 2.00 p.m.	Ghatkopar
17 April 2017	Monday	3.00 p.m. to 5.00 p.m.	Dombivli
18 April 2017	Tuesday	9.00 a.m. to 11.00 a.m.	Borivali
18 April 2017	Tuesday	12.00 p.m. to 2.00 p.m.	Andheri
19 April 2017	Wednesday	9.00 a.m. to 11.00 a.m.	Nerul

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