

People's Education Society's
Dr.Ambedkar College of Commerce & Economics, Wadala, Mumbai – 400 031
S.Y.B.Sc. (IT) Fourth Semester Examination April 2016
Sub: Software Engineering

Date: 18/04/2016

Marks: 75

Time: 8.00 to 10.30

Note: All questions are compulsory.

Q.1. Answer the following:- (Any two) 10

- a. What is Legacy system?
- b. Define software and state the difference between software and hardware.
- c. State the positive and negative impact of growing use of software on society.
- d. Write short note on application software.

Q.2. Answer the following:- (Any two) 10

- a. Explain PSP and TSP.
- b. Explain the different types of risk.
- c. State the purpose , advantages and drawbacks of RUP.
- d. Write short note on spiral model.

Q.3. Answer the following:- (Any two) 10

- a. Explain the issues of requirement gathering.
- b. Write the benefits of QFD.
- c. Write a short note on feasibility consideration.
- d. Differentiate between data models and object model.

Q.4. Answer the following:- (Any two) 10

- a. Draw class diagram for online shopping.
- b. Write UI design principles.
- c. Explain “ Scrum allows us to built a softer software”.
- d. What is Agility?

Q.5. Answer the following:- (Any two) 10

- a. What is testing ? Explain different types of testing.
- b. Explain CBSE process.
- c. Distinguish between function points and object points.
- d. Write note on component composition.

Q.6. Answer the following:- (Any two) 10

- a. Explain the term ‘ Quality Assurance’.
- b. What are the different types of security system?
- c. Explain CMMI model with suitable diagram.
- d. What are the different stages of service interface design?

Q.7. Answer the following:- (Any Three) 15

- a. What are the advantages and disadvantages of prototyping.
- b. Explain E-R diagram.
- c. Write a short note on waterfall model.
- d. Explain Client-Server model with a neat diagram.
- e. Explain the components of compiler.
- f. Distinguish static and dynamic verification.
- g. What is software measurement and metrics.