

S.Y. B.Sc. (IT) : Sem. IV
Software Engineering

Prelim Question Paper



Time : 2½ Hrs.]

[Marks : 75

Please check whether you have got the right question paper.

N.B. : (1) All questions are compulsory.

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

(3) Answers to the same question 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 **THREE** of the following : [15]

(a) Explain V-model along with waterfall.

(b) Explain extreme programming (XP)?

(c) Explain functional and non-functional requirements.

(d) Explain SDLC?

(e) Explain incremental model?

(f) Explain Rational unified process model?

2. Attempt any **THREE** of the following: [15]

(a) Explain requirement elicitation?

(b) Explain legacy systems?

(c) Explain emergent properties of a system?

(d) Explain system dependabilities.

(e) Explain critical systems and its types.

(f) Draw a data flow diagram (DFD) for collage management system by assuming your suitable data

3. Attempt any **THREE** of the following: [15]

(a) Explain client server style?

(b) Explain UI design issues?

(c) Explain management activities?

(d) Explain project scheduling?

(e) Explain risk management?

(f) Explain six sigma strategy?

4. Attempt any **THREE** of the following: [15]

(a) Differentiate between software verification and validation.

(b) Explain component testing.

(c) Explain automated testing process.

(d) Explain size-oriented metrics?

(e) Explain cocomo model.

(f) Explain system testing.

5. Attempt any **THREE** of the following: [15]

(a) Explain CMMI process improvement framework?

(b) Explain service oriented software engineering (SOSE)?

(c) Write note on reuse landscape.

(d) Differentiate between COTS-integrated systems v/s COTS-solution systems.

(e) Write short note on web application frameworks. (WAFs)

(f) What are the issues in distributed systems.

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S.Y. B.Sc.IT Sem-IV: Paper Discussion Schedule

Date	Day	Timing	Centre
18 April. 2018	Wednesday	5.00 p.m. to 7.00 p.m.	Andheri
19 April. 2018	Thursday	9.00 a.m. to 11.00 a.m.	Dadar
19 April. 2018	Thursday	5.00 p.m. to 7.00 p.m.	Borivali
19 April. 2018	Thursday	9.00 a.m. to 11.00 a.m.	Thane
19 April. 2018	Thursday	4.00 p.m. to 6.00 p.m.	Nerul