

2019

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SEAT No. :

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S.Y. B.Sc.

COMPUTER SCIENCE

CS - 222 : Software Engineering
(2013 Pattern) (Semester-II)

Time : 2 Hours]

[Max. Marks : 40

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *All questions carry equal marks.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data, if necessary.*

Q1) Attempt all of the following:

[10×1=10]

- a) What is Elicitation?
- b) State the purpose of testing.
- c) "System is not goal seeking" Justify.
- d) List the benefit of MIS.
- e) List any two key XP activities.
- f) What is meant by structured Analysis?
- g) What is negotiation?
- h) What is meant by deployment?
- i) What is pair-programming?
- j) Define Risk Analysis.

Q2) Attempt any two of the following:

[2×5=10]

- a) Explain phases of ASD Life cycle.
- b) Explain any five component of Data Dictionary?
- c) State difference between structured and unstructured interview.

P.T.O.

Q3) Attempt any two of the following: [2×5=10]

- a) Explain V-model.
- b) Write note on system maintenance.
- c) Explain open and closed system.

Q4) Attempt the following: [2×5=10]

- a) Explain any five principles to active agility.

OR

What is prototyping? Explain the steps of prototyping?

- b) Draw context level, first level DFD for payroll system.



Oct-2018

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S.Y. B.Sc. (Second Semester) EXAMINATION, 2018

COMPUTER SCIENCE

Paper II

(CS-222 : Software Engineering)

(2013 PATTERN)

Time : Two Hours

Maximum Marks : 40

N.B. :- (i) Neat diagrams must be drawn wherever necessary.

(ii) Figures to the right indicate full marks.

(iii) All questions carry equal marks.

(iv) All questions are compulsory.

1. Attempt all of the following : [10×1=10]

(a) List any *two* components of structured analysis.

(b) Define recovery testing.

(c) What is meant by abstract system ?

(d) List any *two* umbrella activities of software engineering process framework.

(e) What are the basic activities involved in software coding phase ?

P.T.O.

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- (f) What is prescriptive process model ?
- (g) Which people/person are called stakeholders of a system?
- (h) What is spike solution in XP ?
- (i) What is the purpose of requirement traceability table ?
- (j) What are the major activities of spiral process model ?

2. Attempt any *two* of the following : [2×5=10]

- (a) Explain the characteristics of system in detail.
- (b) Describe in detail the communication and planning activities of waterfall model ?
- (c) Explain the human factors that must exist among the agile team.

3. Attempt any *two* of the following : [2×5=10]

- (a) Explain prototyping process model in detail.
- (b) Explain any *five* principles of software engineering proposed by David Hooker.
- (c) Explain fact finding techniques in detail.

April-2018

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S.Y. B.Sc. (Sem. II) EXAMINATION, 2018

COMPUTER SCIENCE

Paper II

(CS-222 : Software Engineering)

(2013 PATTERN)

Time : Two Hours

Maximum Marks : 40

N.B. :- (i) *All* questions are compulsory.

(ii) *All* questions carry equal marks.

(iii) Neat diagrams must be drawn wherever necessary.

(iv) Assume suitable data, if necessary.

1. Attempt *all* of the following : [10×1=10]

(a) List the objective of structured analysis.

(b) List any *two* key XP activities.

(c) List the benefits of transaction processing system.

(d) What do you mean by system development life cycle ?

(e) List the benefits of prototyping model.

(f) List any *two* advantages of DFA.

(g) Write the purpose of testing.

April-2018

- (h) List the primary goal of Software Engineering.
- (i) Define IEEE definition of requirement.
- (j) List the goal of Requirement Engineering.

2. Attempt any *two* of the following : [2×5=10]

- (a) Explain elicitation in detail.
- (b) Explain preliminary investigation of SDLC.
- (c) Explain elements of system in detail with suitable diagram.

3. Attempt any *two* of the following : [2×5=10]

- (a) Explain any *five* core principles in Software Engineering.
- (b) Explain spiral model in detail.
- (c) Explain components of Data Dictionary.

4. Attempt the following : [2×5=10]

- (a) Explain any *five* principles to achieve agility.

Or

Define fact finding. Explain interview fact finding technique in detail.

- (b) Draw context level DFD and first level DFD for Library Management System.

Oct-2017

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S.Y.B.Sc. (Computer Science) (Sem. II) EXAMINATION, 2017

COMPUTER SCIENCE

Paper II

CS-222 : Software Engineering

(2013 PATTERN)

Time : Two Hours

Maximum Marks : 40

N.B. :- (i) All questions are compulsory.

(ii) All questions carry equal marks.

(iii) Figures to the right indicate full marks.

(iv) Assume suitable data if necessary.

1. Attempt all of the following : [10×1=10]

(a) State any *two* major activities represented in spiral model.

(b) List any *two* characteristics of MIS.

(c) What do you mean by Economical feasibility study ?

(d) Define Logical DFD.

(e) What is meant by Structured Analysis ?

(f) State one difference between iterative process flow and evolutionary process flow of a system.

(g) Define Software Requirement Specification (SRS).

(h) What do you mean by Inception ?

(i) What is meant by Deployment ?

(j) What is pair programming ?

P.T.O.

2. Attempt any *two* of the following : [2×5=10]
- (a) Explain Dynamic Systems Development method life cycle.
 - (b) Write a short note on concurrent development model.
 - (c) State and explain any *five* principles of software engineering practices.
3. Attempt any *two* of the following : [2×5=10]
- (a) Write a short note on Transaction processing system.
 - (b) Compare structured interview with instructured interview.
 - (c) What do you mean by system design ? Explain its types in detail.
4. Attempt the following : [2×5=10]
- (a) Write a note on Preliminary Investigation of a system.
- Or*
- Explain the Requirement Engineering tasks in brief.
- (b) Draw context level, first level DFD for "Food Ordering Inventory System", which maintains records of customers who orders the food. Managers keep the track of groceries which are provided by various suppliers. System also generates reports of inventory, order and bill.

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S.Y. B.Sc. (Sem. II) EXAMINATION, 2017

COMPUTER SCIENCE

Paper II

CS : 222 : Software Engineering

(2013 PATTERN)

Time : Two Hours

Maximum Marks : 40

N.B. :- (i) All questions are compulsory.

(ii) Neat diagrams must be drawn wherever necessary.

(iii) Figures to the right indicate full marks.

(iv) All questions carry equal marks.

1. Attempt *all* of the following : [10×1=10]

(a) What are the different tools of data flow analysis ?

(b) What do you mean by request approval ?

(c) List any *two* advantages of data flow analysis.

(d) What is spike solution ?

(e) List the benefits of MIS.

(f) List the activities of spiral model.

(g) What is elaboration ?

(h) What is unit testing ?

(i) Software is customized. Justify true/false.

(j) List the fact finding techniques.

P.T.O.

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2. Attempt any *two* of the following : [2×5=10]
- (a) Explain concurrent development model.
 - (b) Write short note on elements of the system.
 - (c) Explain prototype model in detail.
3. Attempt any *two* of the following : [2×5=10]
- (a) Explain the key XP activities.
 - (b) Explain coding and system implementation of the system development life-cycle.
 - (c) Explain umbrella activities of Software Engineering.
4. Attempt the following : [2×5=10]
- (a) Explain elaboration and specification of Requirements Engineering.
- Or*
- (b) What is an agile process ? Explain any *five* principles to achieve agility.
 - (c) Draw context level, first level DFD for bus reservation system.