BTS–V–11.19–1369 Reg. No. | | | | | | | | | C

B.Tech. Degree V Semester Examination November 2019

CS 15-1503 OBJECT ORIENTED SOFTWARE ENGINEERING

(2015 Scheme)

Time: 3 Hours Maximum Marks: 60

PART A

(Answer *ALL* questions)

(10 × 2 = 20)

I. (a) Explain the pros of agile model?
(b) Explain object model and its various notions?
(c) Descibe any one design pattern with an example in detail?
(d) Explain any two design heuristics in detail?
(e) Explain any one black box testing with examples?
(f) Write short notes on Key process areas of CMM?
(g) Write a noIV te on analysis and design workbench?
(h) What are the various activities in organising management function?
(i) Write short notes on CASE tools classification?
(j) Write a note on BASIC COCOMO equations?

PART B

(4 × 10 = 40)

II. (a) Compare and contrast in detail prototyping with evolutionary model? (7)
(b) Prepare SRS for a library information system. Make your own assumptions? (3)

OR

III. (a) Explain class modelling in detail with an example and its various notations? (5)
(b) Show the object oriented analysis of ATM system? Make your assumptions clear? (5)

IV. Describe different types of coupling? (10)

OR

V. Explain design patterns and frameworks with examples? (10)

VI. Write short notes on
(a) blackbox testing (4)
(b) System testing (3)
(c) ISO 9000 (3)

OR

VII. (a) Explain format of a test plan in detail (5)
(b) Explain software quality metrix? (5)

VIII. Explain in detail the various functions of management clearly explaining the activities and issues associated with each of them? (10)

OR

IX. Write short notes on
(a) Reviews and audits (5)
(b) WBS (5)

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BTS-V-11.18-1680 Reg. No.

C

B.Tech. Degree V Semester Examination November 2018

CS 15 - 1503 OBJECT ORIENTED SOFTWARE ENGINEERING

(2015 Scheme)

Time: 3 Hours Maximum Marks: 60

PART A

(Answer *ALL* questions)

(10 × 2 = 20)

I. (a) Explain the pros of evolutionary model.
(b) Explain object model and its various notions.
(c) Describe any one design framework.
(d) Explain any two design heuristics in detail.
(e) Explain any one white box testing with examples.
(f) Write short notes on ISO 9000.
(g) Write a note on testing workbench.
(h) What are the various activities and issues with directing?
(i) Write short notes on CASE classification.
(j) Write a note on COCOMO.

PART B

(4 × 10 = 40)

II. (a) Compare and contrast in detail agile model with waterfall model. (7)
(b) Prepare SRS for a hospital information system. Make your own assumptions. (3)

OR

III. (a) Explain the process of object oriented analysis in detail. (5)
(b) Show the object oriented analysis of library system. Make your assumptions clear. (5)

IV. Explain different types of cohesion with examples. (10)

OR

V. Explain design patterns and frameworks with examples. (10)

VI. Write short notes on:
(a) Integration testing (4)
(b) System testing (3)
(c) CMM (3)

OR

VII. (a) What is cause effect graphing? (5)
(b) Explain software quality metrix. (5)

VIII. Explain in detail the various functions of management clearly explaining the activities and issues associated with each of them. (10)

OR

IX. Write short notes on:
(a) COCOMO cost estimation model (5)
(b) CASE analysis and design work bench (5)

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B.Tech. Degree V Semester Supplementary Examination
April 2018

CS 15-1503 OBJECT ORIENTED SOFTWARE ENGINEERING

(2015 Scheme)

Time : 3 Hours Maximum Marks : 60

PART A

(Answer ***ALL*** questions)

$(10 \times 2 = 20)$

I. (a) What are the major advantages of first constructing a working prototype before developing the actual product?

(b) Explain why the spiral lifecycle model is considered to be a meta model.

(c) List any four desirable characteristics of a good software requirement specification document.

(d) Differentiate function oriented and object oriented software design.

(e) What is the difference between sequence diagram and collaboration diagram?

(f) What are the different system views that can be modeled using UML?

(g) What is system testing? Explain three main kinds of system testing.

(h) Discuss software configuration management activities.

(i) Explain when to use PERT charts and when to use Gannt charts, if you were to perform the duties of a project manager.

(j) Give the benefits of using CASE.

PART B

$(4 \times 10 = 40)$

II. (a) Discuss the different phases of iterative water fall model. (7)

(b) Why is evolutionary model popular for object oriented software development project? (3)

OR

III. Explain in detail structured analysis phase in function oriented software design. (10)

IV. (a) What do you mean by cohesion and coupling in the context of software design? Why is it important? (4)

(b) Explain different types of cohesion and coupling. (6)

OR

V. (a) Explain the role of use case modeling in software development. (5)

(b) Draw a use case diagram for a library automation system. (5)

VI. Explain in detail white box testing and black box testing. (10)

OR

VII. (a) What is CMM? Explain various levels of CMM in detail. (6)

(b) Explain unit testing. (4)

VIII. Explain in detail various stages of cost estimation in COCOMO. (10)

OR

IX. Explain in detail various phases and activities in software project management. (10)

BTS-V(S)-04.19-0819 Reg. No.

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B.Tech. Degree V Semester Supplementary Examination April 2019

CS 15–1503 OBJECT ORIENTED SOFTWARE ENGINEERING

(*2015 Scheme*)

Time: 3 Hours

Maximum Marks: 60

PART A

(Answer *ALL* questions)

(10 × 2 = 20)

I. (a) Why classical water fall model is considered as impractical to be used in real time projects?

(b) Explain what is a software prototype.

(c) Identify the problems that an organization might face if it does not develop an SRS document.

(d) Differentiate function oriented and object oriented design approach.

(e) Explain different types of coupling that can occur in between two modules.

(f) What is the purpose of a use case?

(g) Differentiate between verification and validation in the context of software testing.

(h) What is integration testing?

(i) Explain when you should use PERT chart and when you should use Gannt chart while you are performing the duties of a project manager.

(j) List the major responsibilities of a software project manager.

PART B

(4 × 10 = 40)

II. What is software life cycle? Discuss prototype model and Spiral model. (10)

OR

III. Explain functional requirements and nonfunctional requirements in the context of requirement analysis with a good example. (10)

IV. Explain in detail cohesion and coupling and its classification. (10)

OR

V. Discuss use case modelling with a real life example. (10)

VI. (a) What are the salient features of ISO 9001 certification? (6)

(b) Explain five different levels of SEI CMM model. (4)

OR

VII. (a) Why software configuration management is important? (3)

(b) Explain in detail integration testing. (7)

VIII. (a) Explain in detail COCOMO model. (7)

(b) Give the metrics of software project size estimation. (3)

OR

IX. Discuss various phases of project management. (10)

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BTS-V-11.18-1680 Reg. No. | 1 | 2 | 1 | 7 | 0 | 2 | 3 | 8 |

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B.Tech. Degree V Semester Examination November 2018

CS 15 - 1503 OBJECT ORIENTED SOFTWARE ENGINEERING

(*2015 Scheme*)

Time: 3 Hours Maximum Marks: 60

PART A

(Answer ***ALL*** questions)

(10 × 2 = 20)

I. (a) Explain the pros of evolutionary model.
(b) Explain object model and its various notions.
(c) Describe any one design framework.
(d) Explain any two design heuristics in detail.
(e) Explain any one white box testing with examples.
(f) Write short notes on ISO 9000.
(g) Write a note on testing workbench.
(h) What are the various activities and issues with directing?
(i) Write short notes on CASE classification.
(j) Write a note on COCOMO.

PART B

(4 × 10 = 40)

II. (a) Compare and contrast in detail agile model with waterfall model. (7)
(b) Prepare SRS for a hospital information system. Make your own assumptions. (3)

OR

III. (a) Explain the process of object oriented analysis in detail. (5)
(b) Show the object oriented analysis of library system. Make your assumptions clear. (5)

IV. Explain different types of cohesion with examples. (10)

OR

V. Explain design patterns and frameworks with examples. (10)

VI. Write short notes on:
(a) Integration testing (4)
(b) System testing (3)
(c) CMM (3)

OR

VII. (a) What is cause effect graphing? (5)
(b) Explain software quality metrix. (5)

VIII. Explain in detail the various functions of management clearly explaining the activities and issues associated with each of them. (10)

OR

IX. Write short notes on:
(a) COCOMO cost estimation model (5)
(b) CASE analysis and design work bench (5)

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