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C – 1618

Reg. No. :

Name :

Sixth Semester B.C.A. Degree Examination, April 2017
Career Related FDP under CBCSS
Group 2(b) : COMPUTER APPLICATIONS
Elective Course
CP 1661.3
Software Testing
(2014 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A
(Very Short Answer Type)

One word to maximum of one sentence. Answer all questions. (10×1=10 Marks)

1. What do you mean by testing software ?
2. What do you mean by logical error ?
3. What do you mean by a test case ?
4. What do you mean by ugly domain ?
5. What is a flow graph ?
6. What is the purpose of debugging ?
7. What is a transactional flow graph ?
8. What do you mean by control flow path ?
9. What is anomaly ?
10. What do you mean by range ?

SECTION – B
(Short Answer)

Not to exceed one paragraph, answer any eight questions. Each question carries two marks. (8×2=16 Marks)

11. What is branch testing ?
12. What are compound predicates ?

P.T.O.



13. What is testing blindness ?
14. What are path predicates ?
15. What is path instrumentation ?
16. What is unit testing ?
17. What is acceptance testing ?
18. What is beta testing ?
19. Explain multi way branches in a path predicate.
20. What are link counters ?
21. Differentiate static analysis and dynamic analysis.
22. Explain case statements.

SECTION – C
(Short Essay)

Not to exceed 120 words, answer any six questions. Each question carries four marks. (6×4=24 Marks)

23. Write short notes on data flow machines.
24. What are systematic boundaries ?
25. Explain with a diagram the model for testing.
26. Write short notes on coding bugs.
27. Differentiate functional testing with structural testing.
28. Explain the concept of transaction flows.



29. Write down reduction procedure algorithm.
30. Explain domain errors.
31. Explain the path testing criteria.

SECTION – D
(Long Essay)

Answer **any two** questions. **Each** question carries **15** marks.

(2×15=30 Marks)

32. Explain KV Charts in detail with diagrams.
 33. Explain in detail path products and path expressions.
 34. Describe the dataflow testing.
 35. Explain in detail domain testing.
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Supply mandatory / group
(Pages : 3)

C – 1613

Reg. No. :

Name :

Sixth Semester B.C.A. Degree Examination, April 2017
Career Related FDP under CBCSS
Group 2(b) : COMPUTER APPLICATIONS
Core Course
CP 1641 : Business Informatics
(2014 Admission)

Time : 3 Hours

Total Marks : 80

SECTION – A

(Very Short Answer Type)

One word to maximum of one sentence. Answer all questions : (10×1=10 Marks)

1. B2B stands for
2. What is meant by computer virus ?
3. What is e-mail ?
4. HTML stands for what ?
5. SET stands for what ?
6. List any two e-commerce websites.
7. What do you understand by WWW ?
8. What is web browser ?
9. B2C stands for
10. Define the term internet.

P.T.O.



SECTION – B
(Short Answer)

Not to exceed one paragraph. Answer any eight. Each question carries 2 marks : **(8×2=16 Marks)**

11. What is meant by digital signature ?
12. What is a credit card ?
13. What is meant by C2C business model in e-commerce ?
14. What is e-credit accounts ?
15. Write any two Advantages of E-Commerce.
16. Write any two advantages of E-cash.
17. What is meant by Mass marketing ?
18. What do you mean by antivirus software ?
19. Define the term 'privacy' in connection with e-commerce.
20. Define encryption.
21. Write a short note on web 3.0.
22. What is public key ?

SECTION – C
(Short Essay)

Not to exceed 120 words. Answer any six questions. Each question carries four marks : **(6×4=24 Marks)**

23. Explain in brief B2G business model in e-commerce.
24. Explain the term 'Integrity' in connection with e-commerce.
25. Write a short note on intellectual property law.
26. Explain the application of E-commerce in Banking Sector.



27. Explain briefly how firewalls protect network.
28. Write a short note on e-commerce in auction sector.
29. Explain the term 'Authentication' in connection with e-commerce.
30. Write a short note on "The relevance of currencies".
31. Write a short note on common law.

SECTION - D

(Long Essay)

Answer **any two** questions. **Each** question carries **15** marks : **(2×15=30 Marks)**

32. Explain the security requirements for safe e-payment system.
 33. Define e-commerce. How does e-commerce link customers, workers, suppliers, distributors and competitors ?
 34. Explain Ethical and Legal issues of E-Commerce.
 35. Explain the following terms :
 - A) Online social networking
 - B) Mass Marketing.
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Reg. No. :

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Sixth Semester B.Sc./B.C.A. Degree Examination, April 2017
Career Related FDP under CBCSS
Group 2(B) : COMPUTER SCIENCE / COMPUTER APPLICATIONS
Elective Course CS 1661.3/Core Course CP 1643
Data Mining and Data Warehousing
(2014 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A
(Very Short Answer Type)

One word to maximum of one sentence. Answer all questions : (10×1=10 Marks)

1. Define information.
2. What is web mining ?
3. Define a decision tree.
4. Name a popular Boolean association rule mining algorithm.
5. Define data cleaning.
6. Define a continuous attribute.
7. What do you mean by smoothing ?
8. Define multi-dimensional data model.
9. Explain data reduction.
10. Name a hierarchical clustering method.

SECTION – B
(Short Answer)

Not to exceed one paragraph, answer any eight questions. Each question carries two marks : (8×2=16 Marks)

11. Define a data warehouse.
12. Define knowledge discovery in data mining.
13. Write short notes on types of data in cluster analysis.

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14. Differentiate between classifier and predictor in classification.
15. Explain slice and dice operation.
16. Define supervised learning.
17. Define data mining model.
18. What do you mean by attribute selection in classification ?
19. Explain grid based clustering.
20. Explain outlier points with example.
21. Define confidence in association rule.
22. Explain the steps in data pre-processing.

SECTION – C
(Short Essay)

Not to exceed 120 words, answer any six questions. Each question carries four marks :

(6×4=24 Marks)

23. Where do we use regression in data mining ?
24. Which are the different operations performed with a data cube ?
25. Explain different data transformation operations.
26. Explain the use of text mining.
27. Define meta data with example.
28. Discuss about OLAP.
29. Write short note on Tree Pruning.
30. Explain Baye's theorem.
31. Explain the methods used for distance calculation in clustering.

SECTION – D
(Long Essay)

Answer any two questions. Each question carries 15 marks :

(2×15=30 Marks)

32. Discuss about different clustering methods.
33. Explain in detail about rule-based classification.
34. Discuss about association rule mining technique with an example.
35. Discuss about different schemas used for multi-dimensional data models.



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C – 1591

Reg. No. :

Name :

Sixth Semester B.C.A. Degree Examination, April 2017
Career Related FDP under CBCSS
Group – 2(b) : COMPUTER APPLICATIONS
Core Course
CP 1642
Object Oriented Analysis and Design
(2013 Admission)

Time : 3 Hours

Total Marks : 80

SECTION – A
(Very Short Answer Type)

(Answer all questions. Each question carries one mark.)

(10×1=10 Marks)

1. Expand UML.
2. What is an instance of a class ?
3. What is the main activity of object oriented analysis ?
4. What is the meaning of 'poly' in a polymorphism ?
5. What is the use of static model ?
6. Expand OCL.
7. What is the use of object diagram ?
8. What is object's lifeline ?
9. Mention the purpose of token in the statechart diagram.
10. How can you represent the dependency in the component diagram ?

P.T.O.



SECTION – B
(Short Answer)

(Answer **any eight** questions. **Each** question carries **two** marks.)

(8×2=16 Marks)

11. What do you mean by an algorithmic decomposition ?
12. What is abstraction ?
13. Mention the important factor to achieve encapsulation.
14. What do you mean by reusability ?
15. What is the goal of object oriented design ?
16. What is object modeling ?
17. What is a use-case diagram ?
18. What is the use of class interface notation ?
19. What is a sequence diagram ?
20. What are messages ?
21. Name the types of interaction diagram.
22. What is the purpose of deployment diagram ?

SECTION – C
(Short Essay)

(Answer **any six** questions. **Each** question carries **four** marks.)

(6×4=24 Marks)

23. Explain the difference between method and messages with an example.
24. Why is analysis a difficult task ?
25. Explain the OOD process.

26. What are the advantages of modeling ? Explain.
27. What are the purposes of the class diagram ?
28. Briefly explain the guidelines for finding use-cases.
29. How to make a sequence diagram ? Explain.
30. What are the purposes of interaction diagram ?
31. Explain the usage of state chart diagram.

SECTION – D
(Long Essay)

(Answer **any two** questions. **Each** question carries **15** marks.)

(2×15=30 Marks)

32. Explain the benefits of object oriented system.
 33. Write a detailed note on the following topic :
 - a) Class and objects
 - b) Polymorphism
 - c) Inheritance.
 34. Discuss use case diagram in detail.
 35. Discuss the UML activity diagrams in detail.
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