

(Pages : 3)

J – 2115

Reg. No. : ..33217825014..

Name : ...Anila..A..L.....

Sixth Semester B.C.A. Degree Examination, March 2020

Career Related FDP under CBCSS

Group 2(b) – Computer Applications

Elective Course

CP 1661.3: SOFTWARE TESTING

(2014 Admission onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer all questions. Each question carries 1 mark.

1. Define Testing.
2. Write a note on path predicates.
3. Define functional testing.
4. A _____ is a unit of work seen from a system user's point of view.
5. Define births in terms of transaction flow testing.
6. What is data flow testing?
7. Define path.
8. What is a regular expression?

P.T.O.

9. Define state graph.
10. Define Graph Testing.

(10 × 1 = 10 Marks)

SECTION – B

Answer **any eight** questions. Each question carries **2** marks.

11. Write in brief about model of the environment.
12. What do you mean by path testing?
13. What is achievable paths?
14. What are the demerits of transaction flow graphs?
15. Define and explain dynamic anomaly.
16. Differentiate Ordinary junction and absorption.
17. What is path expression?
18. Write in detail about elements of Flow graph.
19. What is regular expression? Explain.
20. What is logic based testing?
21. Define and explain knowledge based system.
22. Write a note on state testing.

(8 × 2 = 16 Marks)

SECTION – C

Answer **any six** Questions. Each question carries **4** marks.

23. What is Debugging?
24. What are Flow Graphs? Explain.

25. Explain about types of Testing.
26. Differentiate nice and ugly domain.
27. What do you mean by interface testing? Explain.
28. Write a note on Path products.
29. Discuss reduction procedure algorithm.
30. Explain about kv chart.
31. Differentiate good and bad state graphs.

(6 × 4 = 24 Marks)

SECTION –D

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

32. Discuss in detail about various types of Bugs.
33. Explain about Domain Testing.
34. Write in detail about Regular Expressions and Flow Anomaly Detection.
35. Describe the role of Decision Tables in Logic based testing.

(2 × 15 = 30 Marks)

(Pages : 3)

J – 2110

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Sixth Semester B.C.A. Degree Examination, March 2020

Career Related First Degree Programme Under CBCSS

Group 2(b) – Computer Applications

Core Course

CP 1641: BUSINESS INFORMATICS

(2014 Admission onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A [Very Short Answer Type]

One word to Maximum of one Sentence, Answering ALL questions

1. HTTP stands for what?
2. What is M-commerce
3. SSL stands for what?
4. What is search engine?
5. Define Network
6. List any two e-commerce websites
7. C2C stands for

P.T.O.

8. G2C stands for
9. B2G stands for
10. Define intranet

(10 × 1 = 10 Marks)

SECTION – B [Short Answer]

Not to exceed **one** paragraph. Answer any **eight**. Each question carries **2** marks

11. Write a short note on civil law .
12. What is B2C model?
13. What is a Debit Card?
14. Define cryptography.
15. Write any two Disadvantages E-cash.
16. What is firewall?
17. Define the term 'integrity' in connection with e-commerce.
18. Define the term 'Non-Repudiability' in connection with e-commerce.
19. Define the term 'Availability in connection with e-commerce.
20. Define web 2.0.
21. Define one-to-one marketing.
22. Write short note on wireless Telecommunication Devices.

(8 × 2 = 16 Marks)

SECTION – C [Short Essay]

Not to exceed 120 paragraph. Answer **any six**. Each question carries **four** marks

- ~~23.~~ Write a short note on Smart Card
- ~~24.~~ Discuss the procedures for credit card payment system
25. Explain features of the IT Act?
- ~~26.~~ Write a short note on electronic media in education?
- ~~27.~~ Differentiate between secret key cryptography and public key cryptography.
28. Write short note on History of E-Commerce
29. Write short note on mobile finance application
- ~~30.~~ Write a short note e-commerce in entertainment sector
- ~~31.~~ Explain in brief B2B business model in e-commerce

(6 × 4 = 24 Marks)

SECTION – D [Long essay]

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

32. Explain social and legal issues in e-commerce.
33. Explain Various web marketing methods?
- ~~34.~~ What is M Commerce? Explain attributes and benefits of M Commerce
- ~~35.~~ Define e-commerce? What are the Advantages and Disadvantages of Ecommerce

(2 × 15 = 30 Marks)

(Pages : 3)

J – 2112

Reg. No. :

Name :

Sixth Semester B.Sc./B.C.A. Degree Examination, March 2020

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 Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A (Very short answer type)

(One word to maximum of one sentence. Answer **all** questions).

1. Define information.
2. Expand OLAP.
3. Write the name of a data warehouse schema.
4. What is KDD?
5. What is DBMS?
6. Group of similar objects that differ significantly from other objects are called _____.
7. A class of learning algorithm that tries to find an optimum classification of a set of examples using the probabilistic theory is called _____.

P.T.O.

8. Expand DAWG.
9. The very first or parent node of a tree is known as _____.
10. Expand OLTP.

(10 × 1 = 10 Marks)

SECTION – B (Short answer)

(Not to exceed **one** paragraph, Answer **any eight** questions. Each question carries **2** marks).

11. Write a short note on data warehousing.
12. What you mean by data cleansing?
13. Define database.
14. What you mean by classification?
15. What are decision trees?
16. What is the goal of classification in data warehouses?
17. What is clustering?
18. What is an association rule?
19. What is partitional clustering?
20. Define data transformation.
21. What do you mean by dimensionality reduction?
22. What are outliers?

(8 × 2 = 16 Marks)

SECTION – C (Short essay)

(Not to exceed **120** words, Answer **any six** questions. Each question carries **4** marks).

23. Write a paragraph on classification.
24. Differentiate database and data warehouse.
25. What are the applications of cluster analysis?
26. Explain the steps involved in data transformation.
27. What you mean by data reduction? What are the steps for data reduction?
28. Write a note on Bayesian classification.
29. Differentiate OLAP and OLTP.
30. How decision trees are used for classification?
31. Write a note on k-nearest neighbor classification

(6 × 4 = 24 Marks)

SECTION – D (Long essay)

Answer **any two** of the questions in about **300** words. Each question carries **15** marks.

32. Explain in detail the data mining functionalities.
33. What do you mean by multidimensional data models? Discuss about data cubes.
34. Compare classification and prediction. What are the issues involved in it?
35. What do you know about cluster analysis?

(2 × 15 = 30 Marks)

(Pages : 3)

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Sixth Semester B.Sc./B.C.A. Degree Examination, March 2020

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 Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A (Very short answer type)

(One word to maximum of one sentence. Answer **all** questions).

1. Define information.
2. Expand OLAP.
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4. What is KDD?
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6. Group of similar objects that differ significantly from other objects are called _____.
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8. Expand DAWG.
9. The very first or parent node of a tree is known as _____.
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(10 × 1 = 10 Marks)

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(2 × 15 = 30 Marks)

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Sixth Semester B.C.A. Degree Examination, March 2020

Career Related First Degree Programme under CBCSS

Group 2(b) – Computer Applications

Core Course

CP 1642 : OBJECT ORIENTED ANALYSIS AND DESIGN

(2014 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer all questions. Each question carries 1 mark

1. Expand OOA.
2. Define procedure oriented programming.
3. _____ is the process of binding both attributes and methods together within a class.
4. UML stands for _____.
5. Solid line in class diagram stands for _____.
6. '+' symbol in class diagram denotes _____ attributes or operations.
7. _____ diagrams are used to represent how one or more objects in the system connect and communicate with each other.

P.T.O.

8. What is the role of collaboration diagram?
9. How can you notate initial state in activity diagram?
10. _____ are typically used to visualize the physical hardware and software of a system.

(10 × 1 = 10 Marks)

SECTION – B

Answer **any eight** questions. **Each** question carries **2** marks.

11. What are the two aspects of object definition?
12. Explain about the Object Oriented concept.
13. What are the demerits of procedure oriented programming?
14. Who is an actor in use case diagram? How can we notate an actor?
15. In class diagram, where and how we can mention the name of a class?
16. What do you mean by unified model?
17. What is a life line in terms of sequence diagram?
18. What is self message? How can we notate it in sequence diagram?
19. What is collaboration?
20. Activity diagram is not Flowchart. Justify.
21. Where to use state chart diagrams?
22. What do you mean by provided interface? How can we notate it in component diagram?

(8 × 2 = 16 Marks)

SECTION – C

Answer any six questions. Each question carries 4 marks.

- ~~23.~~ Define class in detail.
- ~~24.~~ Differentiate class and object.
- ~~25.~~ Explain about arithmetic decomposition.
- ~~26.~~ Draw the class diagram to mention student teacher relationship.
27. What are the features of messages?
28. What do you mean by system level diagrams?
- ~~29.~~ What are the benefits of sequence diagram?
- ~~30.~~ Explain about activity diagram.
31. Write a note on modeling interfaces.

(6 × 4 = 24 Marks)

SECTION – D

Answer any two questions. Each question carries 15 marks.

- ~~32.~~ Explain object oriented themes in detail.
- ~~33.~~ Write a detailed note on use case diagram with the support of example.
34. Discuss in detail about elements of sequence diagram.
35. Describe deployment diagram in detail.

(2 × 15 = 30 Marks)