Reg. No. : ....

Name : ....

Sixth Semester B.C.A. Degree Examination, April 2018
Career Related FDP Under CBCSS
Group 2(b) : Computer Applications
Core Course
CP 1642
OBJECT ORIENTED ANALYSIS AND DESIGN
(2014 Admission Onwards)

Time : 3 Hours   Total Marks : 80

SECTION – A (Very Short Answer Type)

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

1. Define object.

2. What is abstraction ?

3. Expand OOD.

4. Define polymorphism.

5. Define UML.

6. Define multiple inheritance.

7. Draw symbol to represent class in UML.

8. Define use case.

9. Define component diagram.

10. Define interface.

SECTION – B (Short Answer)

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

11. Write a note on class.

12. Explain about objects.

13. Write a note on advantages of encapsulation.

14. Write a note on OOA.

15. How can we represent object in UML ?

16. Write a note on algorithmic decomposition model.

17. Differentiate object diagram and class diagram.

18. Explain advantages of use case diagram.

19. What are the role of collaboration diagram ?

20. What are the applications of state chart diagram ?

21. What is a class diagram ?

22. What is a system ?

SECTION – C (Short Essay)

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

23. Explain advantages of object oriented decomposition model.

24. Discuss encapsulation in detail.

25. Write a note on advantages of class diagrams.

26. Discuss features of service level diagrams.

27. Explain how to identify classes and objects.

28. What are the elements of collaboration diagram ?

29. Explain role of sequence diagram.

30. Write about component diagram.

31. How activity diagram useful in building a system ? Explain.

SECTION – D (Long Essay)

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

32. Explain object oriented themes in detail.

33. Write a detailed note on use-case diagram with the support of example and explain how to identify use cases.

34. Explain about sequence diagram with the support of example.

35. Describe state chart diagram with the support of example.

Reg. No. : ....

Name : ....

Sixth Semester B.C.A. Degree Examination, April 2018
Career Related FDP under CBCSS
Group2(b) – COMPUTER APPLICATIONS
Elective Course
CP 1661.3
Software Testing
(2014 Admission Onwards)

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. Define software bug.

2. What is software ?

3. What are syntax errors ?

4. What is the purpose of testing ?

5. What do you mean by DD path ?

6. What is a graph ?

7. What do you mean by an interface ?

8. What do you mean by a transaction ?

9. What is a predicate ?

10. Name two data flow machines with different architectures.

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 path sensitizing ?

12. What is integration testing ?

13. What is alpha testing ?

14. What is regression testing ?

15. What do you mean by walkthroughs ?

16. Explain decision and junction in a flow graph.

17. What do you mean by a complete path ?

18. What are the limitations of path testing ?

19. What are correlated predicates ?

20. What are link markers ?

21. List some domain errors ?

22. What are nice domains ?

SECTION – C

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

23. How do you judge good bad state graphs ?

24. Explain state transition testing.

25. Explain control flow graphs.

26. Explain with an example the flow anomaly detection problem.

27. What are complete boundaries ?

28. Compare and contrast testing and debugging.

29. Explain data bugs.

30. Explain decision tables with example.

31. Write short notes on logic based testing.

SECTION – D

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

(2×15=30 Marks)

32. Explain in detail the various data flow anomaly.

33. Explain different types of loops in path testing.

34. Explain in detail transaction flow testing.

35. Give a detailed account on the taxonomy of bugs.

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Reg. No. : ....

Name : ....

Sixth Semester B.C.A. Degree Examination, April 2018
Career Related FDP 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** sentences. Answer all questions.   **(10×1=10 Marks)**

1. Define pure E-commerce.

2. What is B2B ?

3. Define intranet.

4. Define M-Commerce.

5. What is Debit Card ?

6. Define public key.

7. Define one to one marketing.

8. What you mean by special advertising ?

9. Mention any one advantage of web 4.0.

10. What is social network ?

SECTION – B

(Short Answer)

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

11. Write about G2C.

12. Explain role of e-commerce in education.

13. Define e-money.

14. Write a note on relevance of currencies.

15. Write about integrity in e-payment systems.

16. What is encryption ?

17. What is mass marketing ?

18. Describe online advertising.

19. Differentiate behavioral and personalized marketing.

20. Define Wireless Telecommunication.

21. What is the role of hub in network communication ?

22. What is the advantage of virtual community ?

SECTION – C

(Short Essay)

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

23. Differentiate C2C and B2C.

24. Write a note on history of E-Commerce.

25. Write a note on secret key cryptography.

26. Explain about Cipher text.

27. Write about Web advertising.

28. Write a note on online advertising methods.

29. What are the attributes of mobile commerce.

30. Write a note on Web 2.0 revolution.

31. Write a note on basics of social networking.

SECTION – D
(Long Essay)

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

32. Explain about role of e-commerce in
    a) news
    b) auction
    c) entertainment.

33. Write a detailed note on electronic payment systems.

34. Elaborate various advertising methods for on-line marketing.

35. Discuss the Advantages, Disadvantages and Legal issues of e-commerce.

Sixth Semester B.Sc./B.C.A. Degree Examination, April 2018
Career Related FDP under CBCSS
Group 2(b) : COMPUTER SCIENCE/COMPUTER APPLICATIONS
Elective Course CS1661.3/Core Course CP 1643
Data Mining and Warehousing
(2014 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

PART – A
(Very short answer type)

(**One** word to maximum of **one** sentence, answer **all** questions. **Each** question carries **one** mark.)

1. What is information ?

2. _____ is a subject-oriented, integrated, time-variant, non-volatile collection of data in support of management decisions.

3. A/an _____ system is market-oriented and is used for data analysis by knowledge workers, including managers, executives and analysts.

4. KDD stands for _____

5. OLAP is used to explore the _____ knowledge.

6. Define metadata.

7. In K-nearest neighbor the input is translated to _____

8. Define decision tree.

9. The process of grouping a set of physical or abstract objects into classes of similar objects is called _____

10. Data objects, which are grossly different from or inconsistent with the remaining set of data, are called _____

PART – B
(Short answer)

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

11. What do you mean by data mining ?

12. Briefly explain the term data cleaning.

13. List out various steps in data transformation.

14. Compare and contrast database systems and data warehouses.

15. Write short note on market basket analysis.

16. What is the use of apriori algorithm ?

17. What is classification ?

18. What are lazy learners ?

19. Write a note on decision trees.

20. What is cluster analysis ?

21. Why is outlier mining important ?

22. What is the use of dissimilarity matrix in cluster analysis ?

PART – C
(Short essay)

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

23. What do you mean by knowledge discovery ?

24. What are the needs of data integration ?

25. How will you generate association rules from frequent item sets ?

26. Explain the process of mining single dimensional boolean association rule.

27. How will you use IF-THEN rules for classification ?

28. Explain the k-nearest negihbor method.

29. Briefly outline the major ideas of Naïve Bayesian classification.

30. What are the different categories of clustering ?

31. Explain different methods for outlier detection.

PART – D
(Long essay)

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

32. What do you understand by pre-processing data ? What are the different forms of data pre-processing ?

33. Explain in detail multidimensional data models.

34. Explain classification and prediction. Describe issues regarding preprocessing the data for classification and prediction.

35. Explain the partitioning methods for classifying clustering methods. Write commonly used partitioning methods.

_____