Total No. of Questions : 5]

SEAT No. : ____

P-1917

[Total No. of Pages : 2

[6034]-501
T.Y. B.B.A. (C.A.)
CA-501: CYBER SECURITY
(2019 Pattern) (Semester - V)

Time : 2½ Hours] ***[Max. Marks : 70***

Instructions to the candidates :

1) ***All questions are compulsory.***
2) ***Neat diagram must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***

Q1) Attempt any EIGHT of the following : **[8 × 2 = 16]**

a) What is cyber security?

b) What is Virus?

c) What is attack vector?

d) State Social media marketing.

e) What is Steganography?

f) Differentiate between virus and Worm.

g) Define Foot printing.

h) What is cyber stalking?

i) What is Phishing?

j) Define term Cyber Security.

k) What is Intellectual Property?

Q2) Attempt any FOUR of the following : **[4 × 4 = 16]**

a) Differentiate between Active attack and Passive attack.

b) Explain the cyber security real life incident example.

c) Discuss IPR Issues.

P.T.O.

d) What is SQL injection and what are the different countermeasures to prevent the attack?

e) Why do we need Cyber laws: The Indian Context?

Q3) Attempt any FOUR of the following : **[4 × 4 = 16]**

a) Discuss how emails are used in forensics analysis.

b) Explain different types of credit card frauds.

c) Explain the rules of Digital Evidence.

d) What is Domain Name? Explain with example.

e) Prepare a case study with its implication on "Company Website Hacked".

Q4) Attempt any FOUR of the following : **[4 × 4 = 16]**

a) Explain organizational guidelines for internet usage.

b) What are the challenges to Indian Law and cybercrime scenario in India?

c) Discuss various password cracking techniques.

d) Explain CIA triad.

e) Explain various types of cyber forensics.

Q5) Write a short note on Any TWO of the following : **[2 × 3 = 6]**

a) The Indian IT Act.

b) Need of Cyber Laws.

c) Social Media Marketing.

Total No. of Questions : 3]

SEAT No. :

P1918

[Total No. of Pages : 2

[6034]-502

T.Y.B.B.A. (C.A.)

CA-502 : OBJECT ORIENTED SOFTWARE ENGINEERING

(CBCS 2019 Pattern) (Semester - V)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to right indicate full marks.***
3) ***Neat diagram must be drawn wherever necessary.***

Q1) Attempt any five of the following: **[5×2=10]**

a) Define Joining

b) What is Inception

c) Consider a single object "Book" and draw object diagram with possible attributes.

d) Define Tagged values

e) What is meant by object oriented design.

f) Write down the purpose of the object diagram.

g) What is meant by Elaboration.

Q2) Attempt any four of the following : **[4×4=16]**

a) Explain visibility modes along with well labelled diagram.

b) Describe the Rambaugh method in detail.

c) Define UML. What are the goals of UML.

d) Draw state chart diagram for online Railway Reservation System.

e) What is risk management in project management.

Q3) Attempt any four of the following : **[4×4=16]**

a) Define the following terms.

i) System boundary

ii) Swimlane

iii) Branching

iv) Transition

P.T.O.

b) What is SRS? Explain types of SRS specification.

c) What is object orientation? State various reasons for why object orientation.

d) Explain the concept of Aggregation with example.

e) What is meant by Iterative development. State its various advantages.

Q4) Attempt any four of the following : **[4×4=16]**

a) Define thing. Explain type of things in UML.

b) Draw state chart diagram for ATM.

c) What is classifier? List out different classifiers in UML with diagram.

d) Explain UP phase with the help of diagram.

e) Define Relationship. Explain different kinds of relationship.

Q5) Attempt the following : **[12]**

The retail store management system is a system designed for managing for ordering, arranging and selling goods.

The retail checks for the availability of goods in the store. If the stock of goods is less then retailer place order for goods. While ordering the goods, goods area received at store the retailer then arrange them by product or by price. The retailer makes payment. If the stock of goods is available then he will arrange goods for selling.

The retailer then sales the goods directly to the customer. The customer buys the items from retailer. The retailer prepare bill for goods purchased by the customer, be receives amount by credit or by cash from customer.

The supplier supplies the goods to the store in the system.

Consider above situation draw the following UML diagram.

a) Use case diagram

b) Activity diagram

c) Class diagram

Total No. of Questions : 5]

SEAT No. : ____

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[6034]-503
T.Y.B.B.A.(Computer Application)
CA - 503: CORE JAVA
(Semester-V) (2019 Pattern)

Time : 2½ Hours] ***[Max. Marks : 70***

Instructions to the candidates :

1) ***Neat diagrams must be drawn wherever necessary.***
2) ***Figures to the right indicate full marks.***

Q1) **Attempt any Eight:** **[8 × 2 = 16]**

i) Define variable in Java? What are the naming rules of variable?

ii) What is recursion?

iii) Define Inheritance?

iv) What is difference between Anay and Array List?

v) What is error? List types of error?

vi) List any two restrictions for applet.

vii) What is an event?

viii) What is Object and Class?

ix) Write the definition of abstract class?

x) What is Container?

Q2) **Attempt any Four:** **[4 × 4 = 16]**

i) Write a note on package in Java.

ii) What is exception? Expalin its keyword with example.

iii) Explain java. util package.

iv) What is a method in Java? Explain method overloading with example.

v) How to handle events in applet? Explain with example.

P.T.O

Q3) **Attempt any Four:** **[4 × 4 = 16]**

i) Write a Java program using AWT to display details of Customer (cust_id, cust_name, cust_addr) from user and display it on the next frame.

ii) Write a Java program to reverse elements in array.

iii) Write a Java program using static method which maintain bank account information about various customers.

iv) Define an abstract class Shape with abstract method area() and volume(). Write a Java program to calculate area and volume of cone and cylinder.

v) Write a Java program to display smiley face using applet.

Q4) **Attempt any Four:** **[4 × 4 = 16]**

i) What is Layout Manager? Explain any one in detail.

ii) How to create and access package in Java? Explain it with example.

iii) Write a Java program to Fibonacci series.

iv) Explain anonymous class in detail.

v) Write a Java program to display contents of file in reverse order.

Q5) **Write a short note any Two:** **[2 × 3 = 6]**

i) Which are the predefined streams?

ii) Define multiple inheritance.

iii) Why Java is a platform neutral language?

Total No. of Questions : 5]

SEAT No. :

P1920

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[6034]-504

T.Y.B.B.A. (Computer Application)

CA-504 : MONGO DB

(CBCS 2019 Pattern) (Semester - V)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Neat diagram must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***

Q1) Answer the following. (Any eight) **[16]**

a) What is Update Command?

b) Explain Mongo DB.

c) Write the steps to go to Mongo DB Shell.

d) List the Mongo DB utility.

e) Write the difference between Embedding and References.

f) Explain one-to-one relationship with example in Embedded Method.

g) Write a syntax of 'Insert Many'.

h) Explain Checkpoint in MongoDB.

i) Describe Delete command.

j) Explain 'DROP' command

Q2) Answer the following. (Any 4) **[16]**

a) What is a NoSQL database.

b) What is Data Modeling Approach.

c) List any two Mongo Shell commands with examples.

d) Define the journaling process used in Mongo DB.

e) Write on the 'insert one()' operation

P.T.O.

Q3) Answer the following (Any 4) **[16]**

a) Write the difference between NoSQL and SQL.

b) Write a short note on various types of databases.

c) Explain, distributed Queries.

d) Describe TTL index with a suitable example.

e) Explain database profiling in Mongo DB.

Q4) Solve the following. **[16]**

a) Create a collection 'Student'.

b) Create a new document in the 'Student' collection having ID = 01.

c) Write a command to show the details of 'Student'.

d) Show the details of 'Student' by FIND command.

e) Display the detail of 'Student' by the 'FINDONE' command.

f) Display the detail of 'Student' whose course fee is greater than 300000.

g) Display ID, Student NAME, FEE, and use 'PRETTY()'.

h) Display details of students, who were admitted to the course having a fee of 200000.

Q5) Solve the following. (Any 2) **[6]**

a) Explain MongoDB Index types.

b) Write the advantages of Compass used in MongoDB.

c) Explain the features of NoSQL databases.

Total No. of Questions : 5]

SEAT No. :

P1921

[Total No. of Pages : 2

[6034]-505
T.Y.B.B.A. (Computer Application)
CA - 504 : PYTHON
(2019 Pattern) (Semester - V)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to the right indicate full marks.***

Q1) Attempt any eight of the following. **[8×2=16]**

a) What are special operators in Python?

b) Difference between Python list and Numpy array.

c) State any four time module.

d) What is class variable?

e) List out Geometry management methods.

f) Define term Bind method.

g) What is Sea born?

h) Write any two common exceptions in Python.

i) What are advantages of pandas.

j) How to create class and object in Python?

Q2) Attempt any four of the following. **[4×4=16]**

a) Explain math and Cmath module in detail.

b) Explain different data types in Python.

c) Explain inheritance in brief with syntax.

d) Explain various types of exceptional handling in Python.

e) Explain principle of Keras.

P.T.O.

Q3) Attempt any four of the following : **[4×4=16]**

a) What are built in dictionary function in Python with example.

b) Explain features of pandas in Python.

c) Explain the following with proper syntax and example entry.delete, entry.insert.

d) Write a Python program to find factors of a given number.

e) Write a Python script to generate Fibonacci termsusing generator function.

Q4) Attempt any four of the following. **[4×4=16]**

a) How to define function in Python? Explain with suitable example.

b) Explain EXCEPT Clause with no exception.

c) Explain IS-A relationship and It as-A relationship with example.

d) Write a Python program to check if a given key already exists in a dictionary. If Key exists replace with another key/value pair.

e) Write a Python program to swap the value of two variables.

Q5) Write short notes on (any two). **[2×3=6]**

a) Slicing Dictionaries.

b) Data visualization.

c) Custom Exception.