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Total No. of Pages : 2

B.C.A. (Part - III) (Semester - VI) Examination, April - 2015

Linux

Sub. Code :50068

Day and Date : Monday, 6 - 4 - 2015

Time :3.00 p.m. to 6.00 p.m.

Total Marks : 80

- Instructions :
- 1) Attempt any FIVE questions.
 - 2) Each question carry 16 marks.
 - 3) Figures to the right indicate full marks.

Q1) a) Trace out the origin of Linux operating system and Explain how it is differ than the windows operating system. [8]

b) Explain the function of Linux operating system [8]

Q2) a) What is Linux desktop? Give the similarities and differences between the Linux and Windows desktop. [8]

b) What is boot block in Linux file system? Give its importance in file system [8]

Q3) a) Explain the following. [8]

- i) Text editor
- ii) head and tail command

b) Write a shell script to check whether the given number is odd or even [8]

Q4) a) List and Explain any four file management command [8]

b) Write a shell script to display the message 'Good Morning', Good Evening and Good Night depending upon the system date and time. [8]

- Q5) a) What is shell variable? How it is to be declared and used in shell programming [8]
- b) List and explain the various looping statement in shell programming.[8]

- Q6) a) Explain
- i) Cut command ii) Kill command [8]
- b) What is UNIX filter? List and explain the various Unix filter [8]

Q7) Write a short note on any TWO [8+8=16]

- a) Data Block
- b) expr statement
- c) Test command



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B.C.A. (Part - III) (Semester - VI) Examination, April - 2015
Data Warehousing & Data Mining
Sub. Code : 50069

Day and Date : Tuesday, 7 - 4 - 2015

Total Marks : 80

Time : 3.00 p.m. to 6.00 p.m.

- Instructions :
- 1) All questions carry equal marks.
 - 2) Attempt any five questions.

- Q1)** What do you mean by knowledge discovery in databases? Explain KDD process with neat diagram. [16]
- Q2)** What do you mean by datawarehouse? Explain the role and significance of datawarehouse in business with example [16]
- Q3)** What is OLAP? Explain different analytical tools used in OLAP applications in marketing organisation. [16]
- Q4)** What do you mean by multidimensional data model? How this model is used for designing university database? Explain different schemas in detail. [16]
- Q5)** Explain the datawarehouse implementation process for supermarket with various datamarts required. [16]
- Q6)** Explain layered architecture of data warehouse with neat diagram. [16]

Q7) What is data mining? Explain different data mining techniques in detail.[16]

Q8) Write notes on: (Any two) [16]

- a) Data Mart
- b) Challenges in Data Mining.
- c) Transactional Databases Vs datawarehouse.



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Total No. of Pages : 2

B.C.A. (Part - III) (Semester - VI) Examination, April - 2015
JAVA PROGRAMMING (Paper - 603)
Sub. Code : 50070

Day and Date : Wednesday, 08 - 04 - 2015

Total Marks : 80

Time : 03.00 p.m. to 6.00 p.m.

- Instructions :
- 1) Q. No. 8 is compulsory.
 - 2) Solve any Four questions from Q. No. 1 to Q. No. 7.
 - 3) All questions carry equal marks.

- Q1) a) Write syntax and explain loops used in Java with example. [8]
b) Describe bitwise and arithmetic operators used in Java. [8]

- Q2) a) Explain Java Program structure with example. [8]
b) What is method overriding? Give its example. [8]

- Q3) a) What is class and object? Give its examples. [8]
b) Explain different types of polymorphism. [8]

- Q4) a) What is inheritance? Explain single inheritance with example. [8]
b) What is Java? Explain features of Java. [8]

- Q5) Describe Java packages with example. [16]

P.T.O.

Q6) a) Explain finally keyword with example. [8]

b) Write a program to exchange values through method over loading.[8]

Q7) a) Explain finalise method in Java. [8]

b) Describe default constructor and parameterized constructor with example.[8]

Q8) Write short note on: (Any four) [16]

a) Identifiers.

b) Buffer reader class.

c) Command line argument.

d) Abstract class.

e) Try catch block.

f) If statement.



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B.C.A. (Part - III) (Semester - VI) Examination, April - 2015
MANAGEMENT SUPPORT SYSTEM

Sub. Code : 50071

Day and Date : Thursday, 09 - 04 - 2015

Total Marks : 80

Time : 3.00 p.m. to 6.00 p.m.

- Instructions :**
- 1) **Attempt any five questions.**
 - 2) **Figures to right indicate full marks.**

Q1) Define information system. Explain need, significances and types of information system used in business. [16]

Q2) What do you mean by DSS? Explain component architecture of DSS with neat diagram. [16]

Q3) Define MIS. Explain the characteristics of MIS in detail. [16]

Q4) Explain the phases in decision making. Discuss significance of information system in decision making process with suitable example [16]

Q5) a) Explain different models used in DSS. [8]

b) Write brief note on KWS and OAS [8]

Q6) Explain the need of information system for University with its architecture. [16]

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B.C.A. (Part - III) (Semester - V) Examination, April - 2014

UNIFIED MODELING LANGUAGE

Sub. Code : 50063

Day and Date : Tuesday, 29 - 04 - 2014

Total Marks : 80

Time : 11.00 a.m to 2.00 p.m.

- Instructions :**
- 1) Attempt any four questions from Question no. 1 to 7.
 - 2) Question no. 8 is compulsory.
 - 3) Figures to right indicate full marks.

- Q1) a) What is use case diagram? Explain how to find use cases and actors? [8]**
 b) Explain relationships between use cases. [8]

Q2) Explain structure & components of UML. [16]

Q3) What is class diagram? Explain different relationships with example. [16]

Q4) Draw use case diagram, class diagram, object diagram, sequence diagram for inventory management system. [16]

Q5) Explain different extension mechanism in UML. [16]

Q6) a) What is collaboration diagram? Explain different notations used to draw collaboration diagram. [8]

b) Explain activity diagram with example. [8]

Q7) a) What is deployment diagram?

[8]

b) What is component diagram?

[8]

Q8) Write short note on any two :

[16]

a) History of UML

b) Activity diagram

c) Dynamic modeling



Q1) a) Explain the use of UML diagrams in software development.

b) Explain the use of UML diagrams in software development.

Q2) Explain the use of UML diagrams in software development.

Q3) Explain the use of UML diagrams in software development.

Q4) Explain the use of UML diagrams in software development.

Q5) Explain the use of UML diagrams in software development.

Q6) Explain the use of UML diagrams in software development.

Q7) Explain the use of UML diagrams in software development.

Q8) Explain the use of UML diagrams in software development.

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Day and Time :
Instructor :

Q1) a)

b)

Q2) a)

b)

Q3) E

Q4) a)

b)

Q5) a)

b)

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B.C.A. (Part - III) (Semester - V) (Faculty of Commerce)
Examination, April - 2014
COMPUTER NETWORK (Paper - 502) (Revised)
Sub. Code : 50062

Day and Date : Monday, 28- 04 - 2014

Total Marks : 80

Time : 11.00 a.m. to 2.00 p.m.

Instructions : 1) Attempt any five questions.
 2) Figures to the right indicate full marks.

- Q1)** a) What is Computer Network? Explain applications of Computer Network in detail. [8]
 b) Explain different components of Computer Network in detail. [8]
- Q2)** a) What are different types of communication. [8]
 b) What is difference between LAN and WAN? Explain in detail. [8]
- Q3)** Explain different wired and wireless transmission media in detail. [16]
- Q4)** a) What are different applications of TCP/IP protocol? [8]
 b) Explain different goals of layered protocol. [8]
- Q5)** a) Explain different propagation methods in detail. [8]
 b) What is difference between wired and wireless transmission media. [8]

Q6) a) Explain difference between TCP and UDP. [8]

b) Explain characteristics of IP address scheme in detail. [8]

Q7) a) Explain Packet Switching with suitable example. [8]

b) Write difference between Message and Circuit Switching. [8]

Q8) Write short note on following (any four) : [16]

a) Bluetooth.

b) Switches.

c) Routing.

d) Gateways.

e) MAN.



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Q1) a)

b)

Q2) a)

b)

Q3) Exp

Q4) a)

b)

Q5) a)

b)

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B.C.A. (Part - III) (Semester - V) (Faculty of Commerce)
Examination, April - 2014
COMPUTER NETWORK (Paper - 502) (Revised)
Sub. Code : 50062

Day and Date : Monday, 28- 04 - 2014

Total Marks : 80

Time : 11.00 a.m. to 2.00 p.m.

Instructions : 1) Attempt any five questions.

2) Figures to the right indicate full marks.

- Q1) a) What is Computer Network? Explain applications of Computer Network in detail. [8]**
- b) Explain different components of Computer Network in detail. [8]**
- Q2) a) What are different types of communication. [8]**
- b) What is difference between LAN and WAN? Explain in detail. [8]**
- Q3) Explain different wired and wireless transmission media in detail. [16]**
- Q4) a) What are different applications of TCP/IP protocol? [8]**
- b) Explain different goals of layered protocol. [8]**
- Q5) a) Explain different propagation methods in detail. [8]**
- b) What is difference between wired and wireless transmission media. [8]**

- Q6) a) Explain difference between TCP and UDP. [8]
b) Explain characteristics of IP address scheme in detail. [8]
- Q7) a) Explain Packet Switching with suitable example. [8]
b) Write difference between Message and Circuit Switching. [8]
- Q8) Write short note on following (any four) : [16]
a) Bluetooth.
b) Switches.
c) Routing.
d) Gateways.
e) MAN.



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No.**B.C.A. (Part - III) (Semester - VI) Examination, April - 2014****JAVA PROGRAMMING (Paper - 603)**

Sub. Code: 50070

Day and Date : Thursday, 10-04-2014

Total Marks : 80

Time : 3.00 p.m. to 6.00 p.m.

Instructions : 1) Q. No. 8 is compulsory.

2) Solve any Four questions from Q.No. 1 to Q.No. 7.

3) All questions carry equal marks.

- Q1)** a) Write syntax and explain branching statements used in Java with example. [8]
b) Explain This keyword. [8]
- Q2)** a) What is constructor? Explain its types. [8]
b) Explain concept of abstract class with suitable example. [8]
- Q3)** a) What is an inheritance? Explain single verses multiple inheritance. [8]
b) Write difference between Java and C++. [8]
- Q4)** a) Describe exception handling in Java. [8]
b) What is mean by garbage collection? [8]
- Q5)** What is an interface? Explain it with suitable example. [16]
- Q6)** a) What is data type? Explain various data types used in Java. [8]
b) Write a program having student as base class and marks as child class. Calculate total marks and percentage using single inheritance. [8]

Q7) a) Write a program to calculate area of square, circle and rectangle using method over loading. [8]

b) Explain Super keyword with example. [8]

Q8) Write short notes on [Any four] : [16]

- a) Keywords.
- b) Final keyword.
- c) Method overloading.
- d) Class and objects.
- e) Access specifier.
- f) For loop.



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Q1) W

Q2) Exp

Q3) Ex

Q4) W

Q5) a)

b)

Q6) a)

b)

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B.C.A. (Part - III) (Semester - V) Examination, November - 2014

ENTERPRISE RESOURCE PLANNING

Sub. Code : 50065

Day and Date : Tuesday, 11 - 11 - 2014

Time : 3.00 p.m. to 6.00 p.m.

Total Marks : 80

- Instructions :
- 1) Attempt any five questions from eight questions.
 - 2) All questions carry equal marks
 - 3) Figures to right indicate full marks.

- Q1) What is ERP? Discuss various reasons for growth of ERP Market. [16]
- Q2) Explain ERP implementation life cycle with suitable block diagram. [16]
- Q3) Explain materials management module of an ERP package with its subsystems. [16]
- Q4) What do you mean by BPR? Explain different phases in BPR. [16]
- Q5) a) Explain difference between MRP/MRP-II and ERP. [8]
b) What are enabling technologies? Explain in detail. [8]
- Q6) a) Explain the advantages & limitations of ERP. [8]
b) Why do many ERP implementations fails? Explain in detail. [8]

Q7) Discuss features and modules of ORACLE-ERP package.

Q8) Write Short Notes (Any Two):

- a) Hidden Cost of ERP implementation.
- b) Role of IT in BPR.
- c) Dairy ERP System.



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B. C. A. (Part - III) (Semester - V) Examination, November - 2014

INTERNET PROGRAMMING

Sub. Code : 50064

Day and Date : Monday, 10- 11- 2014

Total Marks : 80

Time : 3.00 p.m. to 6.00 p.m.

- Instructions :
- 1) Attempt any five Question.
 - 2) Figures to right indicate full marks.

- Q1)** a) Explain features of .Net framework. [8]
 b) Define type casting. Explain type casting in C# with example. [8]
- Q2)** a) Explain visual studio.Net IDE. [8]
 b) What is JIT? Explain types of JIT with example. [8]
- Q3)** a) What is mean by validation? List out different validation web controls. [8]
 b) Discuss state management in ASP.Net. [8]
- Q4)** a) What difference is between stack and heap memory? Explain with example. [8]
 b) Explain disconnected architecture of ADO.Net. [8]
- Q5)** a) Define partial class. What is importance of Partial class in Asp.Net? [8]
 b) Explain different server controls in Asp.Net. [8]

- Q6) a) Comment on localization and globalization in Asp.Net. [8]
- b) Define Event. Explain event handling in Asp.Net. [8]

- Q7) a) Explain features of ADO.Net. [8]
- b) Discuss HTTP request and response structure in Asp.net. [8]

Q8) Write a short note on (Any four) : [16]

- a) MSIL
- b) Dataset
- c) Compare validator
- d) Web server
- e) CTS



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Q4
Q5
Q6

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B.C.A. (Part - III) (Semester - VI) Examination, April - 2015
MANAGEMENT SUPPORT SYSTEM
Sub. Code : 50071

Day and Date : Thursday, 09 - 04 - 2015

Total Marks : 80

Time : 3.00 p.m. to 6.00 p.m.

- Instructions :**
- 1) **Attempt any five questions.**
 - 2) **Figures to right indicate full marks.**

- × Q1) Define information system. Explain need, significances and types of information system used in business. [16]
- Q2) What do you mean by DSS? Explain component architecture of DSS with neat diagram. [16]
- × Q3) Define MIS. Explain the characteristics of MIS in detail. [16]
- Q4) Explain the phases in decision making. Discuss significance of information system in decision making process with suitable example [16]
- Q5) a) Explain different models used in DSS. [8]
b) Write brief note on KWS and OAS [8]
- Q6) Explain the need of information system for University with its architecture. [16]

Q7) Explain the need, significance and architecture of ESS with its input and output. [16]

Q8) Write short note on: (Any two) [16]

- ✓ a) TPS
- ✓ b) Types of Decisions.
- c) Role of information System in business.



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B.C.A. (Part - III) (Semester - V) Examination, November - 2014
SOFTWARE ENGINEERING - II

Sub. Code : 50061

Day and Date : Wednesday, 5 - 11 - 2014

Total Marks : 80

Time : 3.00 p.m. to 6.00 p.m.

- Instructions :**
- 1) **Solve any 5 questions.**
 - 2) **Figures to the right indicate full marks**

- Q1) Write the answers of following questions in detail. [16]**
- a) Explain system design and problem partitioning.
 - b) Differentiate between functional vs. object oriented approach.
- Q2) Explain various functions of software project management. [16]**
- Q3) What is testing? Explain any two software testing techniques in detail. [16]**
- Q4) Write the answers of following questions in detail. [16]**
- a) Explain the criteria for hardware acquisition
 - b) Explain the cohesion and coupling.
- Q5) a) Distinguish between white box testing and black box testing. [8]**
- b) What is requirement planning? Explain significance of requirement planning [8]**
- Q6) Write the answers of following questions in detail. [16]**
- a) Explain software performance evaluation methods.
 - b) What is decision tree? Explain with suitable example.
- Q7) What do you mean by software quality? Explain software quality attributes & quality control methods used in software projects. [16]**

Q8) Write short notes on. (Any four)

- a) Software Acquisition
- b) Project Scheduling
- c) Software Project Staffing
- d) ISO
- e) Decision Table



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Instruction

Q1) a)

b)

Q2) a)

b)

Q3) a)

b)

Q4) a)

b)

Q5) Desi

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B.C.A. (Commerce) (Part - III) (Semester - V) Examination, April - 2015

INTERNET PROGRAMMING (Paper - 504)

Sub. Code : 50064

Total Marks : 80

Day and Date : Thursday, 16 - 04 - 2015

Time : 03.00 p.m. to 06.00 p.m.

- Instructions :
- 1) Attempt any 5 questions.
 - 2) Figures to right indicate full marks.

- Q1) a) Explain .NET Framework architecture with its features. [8]
b) Discuss State Management in ASP.NET. [8]
- Q2) a) Define Partial Class. What is importance of Partial Class in ASP.NET. [8]
b) Explain pass by value and pass by reference. [8]
- Q3) a) Explain Implicit and Explicit Casting with example. [8]
b) Discuss HTTP Request and Response structure in ASP.NET. [8]
- Q4) a) Define Event. Explain Event Handling in ASP.NET. [8]
b) Explain Cross page post back in detail. [8]
- Q5) Design a web application by using disconnected architecture with proper Constraints. [16]

P.T.O.

Q6) a) Explain concept of Reference type and Data type.

b) Explain concept of Managed and unmanaged code.

Q7) a) What do you mean by validations controls? Explain any two controls in detail. [8]

b) Explain Connected Layer of ASP.NET with example. [8]

Q8) Write short notes (Any 4):

a) Web Browser.

b) Types of Path.

c) JIT compiler.

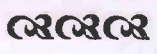
d) MSIL.

e) DLL.



Q8) Write Short Notes (Any Two):

- a) Oracle ERP
- b) Role of consultant in ERP implementation.
- c) Gap Analysis.



Time : 11.00 a.m. to 02.00 p.m.
 Instructions : 1) All questions carry equal marks.
 2) Attempt any five questions from right questions.
 3) Figures to right indicate full marks.

Q1) What do you mean by ERP? Discuss the advantages & evolution of ERP. (10)

Q2) Explain Features & Modules of SAP-ERP Package. (10)

Q3) a) Discuss the various costs incurred in ERP implementation. (8)
 b) Explain market share of ERP products. (8)

Q4) a) What is Business Modelling? Explain with example. (8)
 b) Explain Human Resource Module of an ERP Package. (8)

Q5) What is ERP Implementation Life Cycle? Explain various phases in ERP implementation. (10)

Q6) What is BPR? Explain Role of IT in Business Process Reengineering. (10)

Q7) a) Explain various subsystems in college ERP. (8)
 b) Explain Organization of ERP implementation team. (8)



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**B.C.A.(Faculty of commerce)(Part -III)
(Semester -V)(New)(Revised)**

Examination, April - 2016

Paper-504:RDBMS WITH ORACLE

Sub. Code: 66418

Day and Date : Wednesday, 20 - 04 - 2016

Total Marks :80

Time :11.00 a.m. to 2.00 p.m.

- Instructions :**
- 1) Question No. 8 is compulsory.
 - 2) Solve any four questions from Q.No.-1to Q.No-7.
 - 3) All questions carry 16 marks.

- Q1) Explain inner join, outer join, cross join and self-join with example. [16]**
- Q2) a) How to create new table in SQL? Give its example. [8]**
b) Write difference between DBMS and RDBMS. [8]
- Q3) What is cursor? Explain attributes of implicit and explicit cursors. [16]**
- Q4) a) What is normalization? Explain 1NF,2NF,3NF. [8]**
b) Explain types of triggers. [8]
- Q5) a) Explain primary key and foreign key constraints with example. [8]**
b) What are the responsibilities of DBA? [8]
- Q6) a) What are the features of SQL? [8]**
b) Explain any four aggregate functions used in SQL. [8]

P.T.O.

Q.7) Explain arithmetic, relational, logical, like between and IN operators used in SQL with example. [16]

Q.8) Write short notes on (any four) [16]

- a) Rollback and Commit.
- b) Unique key and not null key.
- c) Sequences.
- d) Grant and Revoke.
- e) PL/SQL block structure.



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**B.C.A. (Part - III) (Revised) (Semester - VI) Examination,
April - 2016**

STRATEGIC MANAGEMENT (Paper - 601)

Sub. Code : 66422

Day and Date : Monday, 11 - 04 - 2016

Total Marks : 80

Time : 3.00 p.m. to 6.00 p.m.

- Instructions :**
- 1) Answer any five questions of the following.
 - 2) All questions carry equal marks.

- Q1)**
- a) What do you understand by strategic management? Explain the steps involved in strategic management process. [8]
 - b) Explain strategic management in different context (any four). [8]
- Q2)**
- a) Define Organisational goals & objectives. Explain its characteristics. [8]
 - b) What is 'SWOT Analysis'? Explain its importance in strategy choice. [8]
- Q3)**
- a) Describe the types of retrenchment strategies. [8]
 - b) Explain these types of business strategies. [8]
 - i) Cost leadership
 - ii) Differentiation.
- Q4)**
- a) What do you mean by strategy implementation? Discuss the interrelationship of strategy formulation and implementation. [8]
 - b) Discuss the functional strategies in strategy implementation. [8]

- Q5) a) What is strategic evaluation? Explain the major barriers in strategic evaluation. [8]
b) Explain the techniques of strategic evaluation & control. [8]
- Q6) a) Explain the role of Board of Directors & Chief Executive Officers in strategic management. [8]
b) What are the tactics of Business strategies. [8]
- Q7) a) What do you mean by strategic choice? Explain the process of strategic choice. [8]
b) Explain the challenges faced during strategy formulation. [8]
- Q8) Write short notes on (any four) : [16]
a) Need for strategic management.
b) Expansion strategy.
c) 'TOWS' matrix.
d) Importance of strategic evaluation.
e) Strategic management in India.
f) Focus Business strategy.



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[8]

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Total No. of Pages : 2

B.C.A. (Faculty of Commerce) (Part - III) (Semester - VI) (Revised)

Examination, April - 2016

602 : DATA MINING AND DATA WAREHOUSING

Sub. Code : 66423

Day and Date : Tuesday, 12-04-2016

Total Marks : 80

Time : 3.00 p.m. to 6.00 p.m.

- Instructions :
- 1) Attempt any 4 questions from Q.1 To Q.7.
 - 2) Q.8 is compulsory.
 - 3) Figures to the right indicates full marks.

Q1) a) Define data mining. Explain different tasks in data mining process. [8]

b) Define schema. Explain importance of star and snowflake schema for developing data warehouse. [8]

Q2) a) What is KDD? Explain process of KDD with neat diagram. [8]

b) Define association. Explain association rule with example. [8]

Q3) a) Explain architecture of data warehouse with block diagram. [8]

b) What is clustering? Explain K-means algorithm of clustering. [8]

Q4) a) Explain different issues in data mining. [8]

b) Define classification. Explain importance of classification and regression with example. [8]

Q5) Which are the different applications of data mining? Explain the features of R software. [16]

P.T.O.

Q6) a) What is OLAP? Write difference between OLAP and OLTP. [8]

b) Define graph sampling. Explain frequent sub graph mining techniques. [8]

Q7) a) Define prediction. Explain the Nave Bayes classifier. [8]

b) What is data preprocessing? Explain steps in data pre-processing for data mining. [8]

Q8) Write notes on - (Any 2) [16]

a) Machine learning.

b) Decision tree.

c) Weka.



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B.C.A. (Part-III) (Semester -VI)
Examination, April - 2016
JAVA PROGRAMMING (Paper - 603)
Sub. Code: 50070

Day and Date : Wednesday, 13 - 04 - 2016
Time : 3.00 p.m. to 6.00 p.m.

Total Marks : 80

- Instructions :**
- 1) Attempt any FIVE questions.
 - 2) Each question carry 16 marks.
 - 3) Figures to the right indicate full marks.

Q1) a) Explain Java Virtual Machine [JVM]. [8]

b) How to define class and create an object in Java? [8]

Q2) What is exception handling? Explain try---catch block with example. [16]

Q3) a) Explain different data types in Java. [8]

b) Write a program having student as base class and marks as child. Calculate total marks and percentage using single inheritance. [8]

Q4) a) What is an interface? Explain applications of user defined interface. [8]

b) Explain multiple catch blocks with example. [8]

Q5) a) What is constructor? Explain its types. [8]

b) Write a program to use different multiple catch block. [8]

P.T.O.

Q6) Write syntax and explain any two branching statements used in Java. [16]

Q7) a) Write a Java program to implement interface. [8]

b) Explain super keyword with example. [8]

Q8) Write short note on (Any Two). [16]

a) Method Overloading

b) Constructor

c) Garbage collection

d) For loop

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B.C.A. (Faculty of Commerce) (Part-III) (Semester -VI) (New/ Revised)

**Examination, April - 2016
LINUX OPERATING SYSTEM**

Sub. Code: 66424

Day and Date : Wednesday, 13 - 04 - 2016

Total Marks : 80

Time : 3.00 p.m. to 6.00 p.m.

- Instructions :**
- 1) Solve any four questions from Q.1 To Q.7.
 - 2) Q.8 is Compulsory.
 - 3) Each question carry 16 marks.

Q1) a) What is Shell? Explain kernel-shell relationship with diagram. [8]

b) What is Vi Editor? Explain the use and features of Vi. [8]

Q2) a) What is operating system? Explain different types of operating system. [8]

b) Explain Meta characters with example. [8]

Q3) What is Linux file system? Explain File system tree. [16]

Q4) Explain the following commands with suitable example. [16]

- i) wc ii) cat iii) ls iv) grep

Q5) a) Write a shell program to calculate factorial of a number. [8]

b) Explain command mode. [8]

P.T.O.

Q6) a) Explain case statement with example.

[8]

b) Explain exit status of command with example.

[8]

Q7) a) Explain Command Line argument with example.

[8]

b) Explain command linking using pipe operator.

[8]

Q8) Write short notes on following (any four)

[16]

a) Sort command

b) Shell script

c) File attributes

d) find command

e) cp command

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[8]

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[8]

**B.C.A. (Faculty of Commerce) (Part - III) (Semester -VI)
(New) (Revised) Examination, April - 2016**

[8]

JAVA PROGRAMMING

Sub. Code:66425

[8]

Day and Date :Saturday, 16 -04 -2016

Total Marks : 80

Time :3.00 p.m. to 6.00 p.m.

[16]

- Instructions :**
- 1) Each question carry 16 marks.
 - 2) Solve any four question from Q.1 To Q.7
 - 3) Q.8 is Compulsory.

Q1) a) List and explain features of java. [8]

b) Differentiate between Java and c++. [8]

Q2) a) Explain Looping statement used in Java with example. [8]

b) Explain multiple catch statement with example. [8]

Q3) a) Explain Over ridding with example. [8]

b) Explain adding applet to java file with example. [8]

Q4) Explain package in detail. [16]

Q5) a) What is constructor? Explain its types. [8]

b) Explain type casting with example. [8]

Q6) a) Explain thread priority. [8]

b) Write a program to identify whether entered character is uppercase character, lowercase character, digit or symbol. [8]

P.T.O.

Q7) What is thread? Explain **life cycle** of thread.

[16]

Q8) Write short notes on **following (any four)**.

[16]

- a) Data types in Java.
- b) Class and Objects.
- c) Destructor.
- d) Abstract Window Toolkit.
- e) Stopping and blocking a thread.

