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BCA SEM III

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Question Papers

SHREE SATERI PISSANI EDUCATION SOCIETY'S
Shri. Gopal Gaonkar Memorial
GOA MULTI – FACULTY COLLEGE
DHARBANDORA, GOA
Semester End Examination - III, October 2015

Class: SY-BCA

Sub: OBJECT ORIENTED CONCEPTS (BCA301)

Max Marks: 50

Duration: 2 Hours

Instruction: 1) All Questions are Compulsory
2) Figures to right indicate marks
3) Start each new question on a fresh page

Q1.A Select the appropriate option and rewrite the statement (5 * 1=5)

- i) Java developed by _____
a) James Gosling b) Dennis Ritchie c) Charles Babbage d) None of the above
- ii) Java is total object oriented Language
a) True b) False
- iii) Which of these method of class StringBuffer is used to concatenate the string representation to the end of invoking string?
a) concat() b) append() c) join() d) concatenate()
- iv) Flowlayout is default layout in in swing application
a) True b) False
- v) Swing is light weight Component
a) True b) False

Q1.B Answer the following (5*1)

- i) What are inner classes
ii) What is method overriding
iii) What's the difference in using runnable and extends in Thread.
iv) What is JDBC.
v) What is applet

Q2 Answer the following (10)

- A) Explain constructor overloading (2)
- B) Explain pillars of Java (3)
- X) Write a Java Program to display electric Bill, with 3 methods for accept value , calculate value and to display. (5)

OR

Y) Explain Multithreading in Java .

(5)

Q3) Answer the following

(10)

- A) Explain how to work with Thread sleep in Java
- B) Explain the Unreachable code in Exception Handling with example
- X) Write a applet code to generate House

(5)

OR

Y) Write the applet program to generate different MouseListener events in java.

(5)

Q4) Answer the Following

(10)

- A) What's the difference between "Abstract" classes and "Interfaces"
- B) Explain any 3 event listeners components

(2)

(3)

X) Write a applet program to generate factorial of number using awt components

(5)

OR

Y) Explain Layout manager in Java

(5)

Q5) Answer the following

(10)

- A) What is JDBC ?
- B) Explain the Packages in Java
- X) write a Java program to implement concept of Multithreading

(2)

(3)

(5)

OR

Y) Explain the Exceptions in Java

(5)

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DHARBANDORA, GOA
Semester End Examination – III, October 2015

Class: SY-BCA

Sub: Database Management Systems (BCA302)

Max Marks: 50

Duration: 2 Hours

Instruction: 1) All Questions are Compulsory
2) Figures to right indicate marks
3) Start each new question on a fresh page

Q.1 A) Choose the correct answer

(5x1=5)

- i) The term ----- is used to refer to a row
- a) Attribute b) Tuple
c) Field d) Instance
- ii) Select * from employee what type of statement is this?
- a) DML b) DDL c) View d) Integrity constraint

iii)

Employee_ID	Name	Salary
1001	Annie	6000
1009	Ross	4500
1018	Zeith	7000

This is Employee Table.

Select * from Employee where Employee_ID>1009;

Which of the following Employee_ID will be displayed?

- a) 1001, 1009, 1018 b) 1009, 1018
c) 1001 d) 1018
- iv) Foreign key is the one in which the ----- of one relation is referenced in another relation.
- a) Foreign key b) Primary key
c) References d) Check constraint

- v) ----- first proposed the process of normalization
 a) Edgar. W b) Edgar F. Codd c) Edward Stephen d) Edward Codd
 (5x1=5)

B) Answer the following in one or two lines

- i) List any four applications of DBMS.
- ii) List out data models.
- iii) Define single valued and multi valued attributes.
- iv) What is mean by functional dependencies?
- v) List any two features of GNOME.

Q.2 Answer the following (10)

- A) What are the advantages of using a DBMS? (02)
- B) Write short note on Referential Integrity (03)
- X) Explain Hierarchical model and write advantages and disadvantages. (05)

OR

Y) Explain E-R diagram symbols and draw E-R diagram for Library (05)

Q.3 Answer the following (10)

- A) What is distributed databases? (02)
- B) Write short note on Open Database Connectivity (03)
- X) Explain 3NF with example (05)

OR

Y) Discuss the Link attributes in multimedia databases. (05)

Q.4 Answer the following (10)

- A) Define Transaction (02)

B) Consider the Employee table. Give an expression in the relational algebra for each of the following queries:

Empid	Empname	Designation	Department	Age	Salary
101	XXX	Manager	Sales	30	25000
102	YYY	Asst Manage	Production	25	18000
103	ZZZ	Manager	Sales	28	30000
104	AAA	Clerk	Production	27	12000
105	BBB	Manager	Sales	22	28000

i) Find the names of all employees who working in department "Sales"

ii) Find the name of all employees whose salary is greater than 20000 (03)

X) Write any five codd rules. (05)

OR

Y) Discuss ACID Properties and Transaction state (05)

Q.5 Answer the following (10)

A) Define Primary key (02)

B) Give SQL statement which creates a STUDENT table consisting of following fields.

Name varchar(30)

Rollno varchar(20) primary key

Class varchar(30)

Rank int(5) (03)

i) Write query for inserting values in the table

ii) Write query for updating the table

X) Discuss three layers in Dexter Hypertext Reference Model (05)

OR

Y) Explain BCNF with example (05)

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GOA MULTI-FACULTY COLLEGE
DHARBANDORA, GOA**

BCA Semester End Examination, October- 2015

Semester III

Total No. of Questions: 05

Duration: 2 Hrs.

Management Accounting-I (BCA-303)

Total No. of pages: 03

Maximum Marks: 50

Instructions: 1) *All Questions are Compulsory.*

- 2) *Figures to the right indicate maximum marks allotted.*
- 3) *Provide sufficient margin space in the answer-book for recording marks.*
- 4) *Enter the appropriate main & sub-question numbers in the answer-book.*
- 5) *Show important working notes as fair work.*
- 6) *From Q. No. 2 to Q. No. 5 answer A or X question.*

Q1. A. Explain briefly the objectives of Management Accounting. (5* 2= 10 marks)

B. Discuss the advantages of marginal costing.

Q2.A. The following figures for profit and sales are obtained from the accounts of X Co. Ltd.
(10 marks)

Year	Sales (Rs.)	Profit (Rs.)
Period I	1,50,000	4,000
Period II	1,90,000	12,000

Calculate:

- i. P/V ratio;
- ii. Fixed Cost;
- iii. Break-Even Sales

OR

Q2.X. The Standard Labour component and the actual Labour component engaged during the month are given below: (10 marks)

Particular	Skilled	Unskilled
	Labour	Labour
Standard no. of workers in a group	30	10
Standard wage rate (Rs. Per hour)	30	8
Actual no. of workers employed during the month in the group	24	12
Actual Wage rate per hour (Rs.)	24	8

During the month of 200 working hours, the group produced 9,600 standard hours of work.

Calculate Labour Cost variance, Wage Rate variance and Total Labour Efficiency Variance.

Q3.A. Following is the cost structure for production of an article when the firm is operating at a level of 5000 units. (10 marks)

Particular	Rs
Direct Materials Cost	25,000
Direct labour	15,000
Power	1,250 (20% fixed)
Repair and maintenance	2,000 (25% fixed)
Stores	1,000 (100% variable)
Inspection-factory	500 (20% variable)
Depreciation on plant	10,000 (100% fixed)
Administrative overheads	5,000 (25% variable)
Selling overheads	3,000 (50% variable)

Find the cost of the production at 4000 units and 6000 units capacities level of production.

OR

(10 marks)

Q3.X. ABC co. provides the following information:

- Cash balance in hand 1st January 2011 Rs. 72,500
- The other expenses and sales of the companies are:

Months	Sales	Material	Wages	Selling OH	Adm. OH
January	72,000	25,000	10,000	4,000	1,500
February	97,000	31,000	12,100	5,000	1,700
March	86,000	25,500	10,600	5,500	2,000
April	88,600	30,600	25,000	6,700	2,200
May	102,500	37,000	22,000	8,500	2,500
June	108,700	38,800	23,000	9,000	2,500

Adjustment:

- Sales assume that 50% are cash.
- Assets are accrued in the month of February and April therefore provision should be made for the payment of Rs. 8,000 and 25,000 for the same.
- An application is made to the bank to grant a loan of Rs. 30,000 and it is hoped that it will be repaid in the month of May.
- It is anticipated that a dividend of Rs. 35,000 will be paid in June. Debtors are allowed 1 month credit.
- Creditors (for goods) and overheads grants One month credit.

2

Q4.A. What are the four basic functions of management process? How management accounting helps in this process? (10 marks)

OR

Q4.X. What is Management Report and explain the different forms of reporting. (10 marks)

Q5.A. 1) What is the meaning of Standard Costing and different variance? (5 marks)

2) Explain steps in Management Report. (5 marks)

OR

Q5.X. 1) State the limitation of Break-Even Chart. (5 marks)

2) What do you mean by budgeting and discuss characteristics of budget. (5 marks)

BEST OF LUCK

3

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GOA MULTI – FACULTY COLLEGE
DHARBANDORA, GOA

Semester End Examination - III, October 2015

Class: SY-BCA Sub: Introduction to Economics

(BCA-304)

Max Marks: 50

Duration: 2 Hours

Instruction: 1) All Questions are Compulsory

2) Figures to right indicate marks

3) Start each new question on a fresh page

Q.1 A) What do you mean by Positive economics? (5x1=5)

B) What are the assumptions of the law of demand. (5x1=5)

Q.2. A) i) Explain the importance of elasticity of demand. (5X2=10)
ii) Explain the problem of scarcity.

OR

X) i) Explain the characteristics of Monopoly market.
ii) Explain the characteristics of Perfectly competitive market.

Q.3. A) i) Explain the law of diminishing marginal utility. (5X2=10)
ii) Explain the market equilibrium.

OR

X) i) Explain the meaning and types of price elasticity of demand.
ii) Explain the meaning and types of cross elasticity of demand.

Q.4. A) i) Explain the law of variable proportions. (5X2=10)
ii) Explain the law of returns to scale.

OR

X) i) Explain the meaning and determinants of demand.
ii) Explain the meaning and determinants of supply

Q.5. A) i) Explain David Ricardo's theory of Rent. (5X2=10)
ii) Explain the meaning and exceptions of the law of demand.

OR

X) i) Explain the Loanable funds theory.
ii) Explain the Liquidity preference theory of interest.

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Semester End Examination - I, October 2015

Class: SY-BCA

Sub: Communication and Presentation Skills (BCA307)

Max Marks: 50

Duration: 2 Hours

Instruction: 1) All Questions are Compulsory
2) Figures to right indicate marks
3) Start each new question on a fresh page

Q.1 A) Answer the following questions. (5*1)

- 1) What is an interview?
- 2) What is grapevine communication?
- 3) How will you cite the reference if you use a book?
- 4) Write any two attributes of oral communication.
- 5) What is paralanguage? Give any two examples.

Q.1 B) Answer the following questions. (5*1)

- 1) State any two channels of written communication.
- 2) How can you get rid of stage fear or nervousness before presentation?
- 3) What is presentation?
- 4) State any two advantages of interview.
- 5) Write any two uses of non-verbal communication.

Q.2 A) Explain the process of communication with the help of a diagram. (10)

OR

Q.2 B) What is meant by barriers in communication? What can be done to overcome the barriers in communication? (10)

Q.3 A) Explain with examples different types of interviews. (10)

OR

Q.3 B) How should a candidate prepare himself for the interview? Give answer with respect to pre-interview, during interview and post interview. (10)

Q.4 A) Explain the importance of use of presentation aids during presentation. (10)

OR

Q.4 B) Explain the importance of language, gestures and body language during presentation. (10)

Q. 5A) Explain with examples different types of communication. (10)

OR

Q.5 B) Explain the importance of matter researching in the process of communication. (10)



Sateri Pissani Education Society's

Shree Gopal Gaonkar Memorial

Goa Multi Faculty College, Dharmabandora - Goa

Semester End Examination-I, October 2016

Class: S.Y.BCA

Semester: III

Sub: Introduction to Economics

Max Marks: 50

Duration: 2 hour

Instructions: 1) All Questions are Compulsory.

2) Figures to right indicate marks.

3) Start each new question on a fresh page.

Q.1 A) write a short note on,

(5x2=10)

x) Positive and Normative economics

y) Problem of scarcity

OR

c) Monopoly market.

d) Oligopoly market.

Q.2. A) Elucidate Law of Demand.

(10)

OR

x) Explain Excess demand and Excess Supply.

(5x2=10)

y) Variation in supply.

Q.3. A) Define

(5x2=10)

i) Perfectly elastic demand.

(i) Relatively elastic demand.

OR

B) Explain any three types of Income Elasticities.

(10)

Q.4. A) Explain the law of variable proportion

(10)

OR

B) Explain the law of returns to scale.

(10)

Q.5. A) Define

i) Real wages.

ii) Nominal wages.

(10)

OR

B) What is your understanding of Ricardian Theory of Rent?

(10)



Roll No: _____

Total No. of Questions: 5

Total No. of pages: 2

B.C.A Semester End Examination, October 2016

Communication and Presentation Skills (BCA 307)

Semester: 3

Duration: 2 Hours

Max. Marks: 50

Instructions:

- 1) All questions are compulsory.
- 2) Figures to right indicate marks.

Q.1 A) Explain some characteristics of human communication. (5x1=5)

B) Define feedback and explain its importance. (5x1=5)

Q.2. A) Discuss basic principles of effective communication. (10)

OR

X) What are the blocks in effective listening? (10)

Q.3. A) What are the qualities of a good listener? (10)

OR

X) What is the physical preparation a candidate requires to do for an interview? (10)

Q.4. A) Explain the role of the interviewer. (10)

OR

X) What are the preparations required before presenting a paper? (10)

Q.5. A) Draft an interview between a fresher who has recently completed his BCA and interviewers from an IT company. (10)

OR

X) Explain the difference between formal and informal communication with due examples. (10)

Roll No: _____



Total No. of Questions: 5

Total No. of pages: 3

B.C.A Semester End Examination, October 2016

OBJECT ORIENTED CONCEPTS (BCA 301)

Semester: III

Duration: 2 Hours

Max. Marks: 50

Instruction: 1) All Questions are Compulsory
2) Figures to right indicate marks
3) Start each new question on a fresh page

Q1.A Select the appropriate option and rewrite the statement

(5*1=5)

- a) Java Develop by _____
- i) James Gosling ii) Denis Ritchie iii) Andy Rubin iv) Larry Page
- b) What is stored in the object obj in following lines of code?
box obj;
- i) Memory address of allocated memory of object.
ii) NULL
iii) Any arbitrary pointer
iv) Garbage
- c) Which of the following is a valid declaration of an object of class Box?
- i) Box obj = new Box(); ii) Box obj = new Box;
iii) obj = new Box(); iv) new Box obj;
- d) Which of these keyword must be used to inherit a class?
- i) super ii) this iii) extent iv) extends
- e) Which of these keywords is used to refer to member of base class from a sub class?
- i) upper ii) super iii) this iv) None of the mentioned

Q1.B Answer the following

(5*1)

- i) What is JVM
- ii) How can we Implements Polymorphism in Java
- iii) What are Inner classes
- iv) Define Package
- v) Define abstract classes

Q2 Answer the following

(10)

A) Difference between Thread and Process

(2)

B) Explain Inheritance in Java

(3)

X) Write a Java Program to demonstrate Multithreaded Program using Runnable Interface (5)

OR

Y) Explain Multithreading in Java .

(5)

Q3) Answer the following

(10)

A) Explain any two features of Java

(2)

B) Explain the Unreachable code in Exception Handling with example

(3)

X) Write a applet code to generate CAR

(5)

OR

Y) Write the Applet life cycle and Swing

(5)

Q4) Answer the Following

(10)

A) What is the difference between a constructor and a method?

(2)

B) Explain any 3 awt components

(3)

X) Write a applet program to generate reverse of number using awt components

(5)

OR

Y) Explain different Events Handling

(5)

Q5) Answer the following

(10)

A) Explain JDBC ?

(2)

B) What are similarities between Interface and Class

(3)

X) Explain with Java program to implement Method overloading and method overriding concepts

(5)

OR

Y) Explain the concepts of Streams in Java with example

(5)

B) Answer the following in one or two lines

(5x1=5)

i) Define DBMS

ii) Define Data Models..

iii) What do mean by Candidate key?

iv) Write any two benefits of normalization

v) Define Locks

Q.2. A) Write any two advantages in DBMS (02)

B) Explain any three database users (03)

C) Describe Relational data models (05)

OR

C) Discuss Hierarchical models advantages and disadvantages (05)

Q.3. A) Define Data warehousing and Data Mining (02)

B) Write short note on ODBC (03)

C) Explain ER Symbols and Relationships (05)

OR

C) Explain any five Codd rules (05)

Q.4. A) What is Transitive Dependence? (02)

B) Explain Second Normal Form with example. (03)

C) Consider the Employee table. Give an expression in the relational algebra for each of the following queries:

Empid	Empname	Designation	Department	Age	Salary
101	XXX	Manager	Sales	30	25000
102	YYY	Asst Manage	Production	25	18000
103	ZZZ	Manager	Sales	28	30000
104	AAA	Clerk	Production	27	12000
105	BBB	Manager	Sales	22	28000

- i) Find the names of all employees who working in department "Sales"
- ii) Find the name of all employees whose salary is greater than 20000
- iii) Find out the total sum of salary from the employee table.
- iv) Find the managers salary increase by 1%
- v) Find all employees average salary



(05)

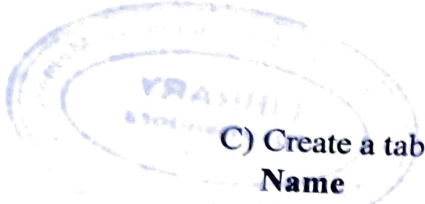
OR

C) Explain First Normal Form and convert the following table in to 1NF: (05)

ISBN	Title	AuName	AuPhone	PubName	PubPhone	Price
0-321-32132-1	Balloon	Sleepy, Snoopy, Grumpy	321-321-1111, 232-234-1234, 665-235-6532	Small House	714-000-0000	\$34.00
0-55-123456-9	Main Street	Jones, Smith	123-333-3333, 654-223-3455	Small House	714-000-0000	\$22.95
0-123-45678-0	Ulysses	Joyce	666-666-6666	Alpha Press	999-999-9999	\$34.00
1-22-233700-0	Visual Basic	Roman	444-444-4444	Big House	123-456-7890	\$25.00

- Q.5. A) Briefly explain Transaction with the help of example. (02)
- B) Write short note on the Multimedia Databases (03)
- C) State and explain ACID properties of a transaction. (05)

OR



(05)

C) Create a table called Book with the following structure:

Name	Type
Bookno	Varchar Primary key
BName	Varchar Not null
Publication	Varchar
Author	Varchar
Pdate	Date
Price	numeric

Queries:

- a. Insert five records in to the Book table
- b. Select Banme,Publication from Book
- c. List the records in the Book table BName in ascending order.
- d. List the records in the Book table Publication in descending order
- e. Display First Record of the table
- f. Rename the table
- g. Drop the table