BCA SEM III
17-18
Question Papers

Roll No:

S.Y.B.C.A Semester End Examination,October 2018

Title of the Paper with Paper No: DATABASE MANAGEMENT SYSTEMS(BCA302)

Semester: III

Duration: 2Hours.   Maximum Marks: 50

1)All questions are compulsory
2)Figures to the right indicate maximum marks allotted
3)Start each new question on a fresh page
4)Enter the appropriate main and sub-question numbers in the answer book

Q1.A) Complete the statement by using appropriate words(s):   [5*1]Marks

a) _____ Attribute is made of more than one simple attribute.

b) _____ Is a family of syntax elements similar to programming language used for selecting, updating, deleting, inserting data in database.

c) An entity set that does not have a primary key is referred to as _____

. d) _____Mode allows data item can be both read as well as written in lock based protocol.

e) A relation is in _____if and only if every determinant is a candidate key.

Q1.B)Answer The Following Questions Briefly   [5*1]Marks

a) State any one function of Database Administrator.

b) Define Cardinality.

c) Mention one major difference between Trivial and non-Trivial functional dependency.

d) Define Decomposition in database terminology.

e) Give a point of difference between Recoverable and Non-Recoverable Schedule.

Q2)Answer The Following Questions.

a) Explain the concept of Data Independence mentioning its 2 major types   2Marks

b) State and explain any 3 features of Data Warehousing stated by bill inmon   3Marks

c) Construct an E-R diagram for the Admission procedure in a university.   5Marks

An advertisement is issued giving essential qualifications for the course, the last date for recipient of application, and the fee to be enclosed with the application. A clerk in the registrar's office checks the received applications to see if mark sheet and the fee are enclosed and sends valid application to the concerned academic department. The department checks the application in detail and decides the applicant to be admitted, those to be put in the waiting list, and those to be rejected. Appropriate letters are sent to the registrar's office which intimates the applicant.

Q3) Answer The Following Questions:

a) State and explain ANY TWO ACID properties of the transaction management. 2Marks

b) Explain ANY 3 types of integrity constraints rules with suitable examples.   3Marks

c) Explain the following data models with suitable diagrams.   5Marks

    i.   Relational model.

    ii.   Hierarchical model.

Q4)Answer The Following Questions

a) List and briefly explain down any two Data Mining techniques.   2Marks

b) Explain the 3-tier architecture of DBMS with diagrammatic representation.   3Marks

c) Explain the Normalisation rules of 1 NF, 2 NF and 3 NF.   5Marks

Q5)Answer The Following Questions

a) Briefly explain Domain Key Normal Form with suitable constraints.   2Marks

b) Illustrate testing methods for Conflict Serializability Using Examples.   3Marks

c) Explain the emerging trends in following database technology .   5Marks

    i.   Multimedia databases

    ii.   Gnome databases

*****END*****

October 2017

Roll No: ....
Total No: of Questions: 05

BCA Semester End Examination
Introduction to Economics
Semester III

Duration: 02 Hrs   Maximum Marks: 50

Q1) Answer the following   (5X2=10)
A. What do you mean by Normative Economic?
B. Explain the statement and exception to the law of demand.

Q2. Answer the following   (5X2=10)
Ai) Explain the problem of scarcity
 ii) Explain the factors affecting elasticity of demand
                    OR
Xi) Explain the features of Monopolistic competition.
 ii) Explain the features of Perfectly competitive market.

Q3). Answer the following.   (5X2=10)
Ai) Explain the difference between General equilibrium and Partial equilibrium.
 ii) Explain the Law of Diminishing Marginal Utility.
                    OR
Xi) Explain the meaning and types of Income elasticity of demand.
 ii) Explain the meaning and types of Price elasticity of demand.

Q4. Answer the following   (5X2=10)
Ai) Explain the law of variable proportion.
 ii) Explain the law of Returns to Scale.
                    OR
Xi) Explain the meaning and Determinants of Supply.
 ii) Explain the shifts in Demand Curve.

Q5. Answer the following   (5X2=10)
Ai) Explain David Ricardian theory of rent.
 ii) Explain Abstinence theory of rent.
                    OR
Xi) Explain the factors determining wages.
 ii) Explain the Loanable funds theory.

Roll No:

Total No. of Questions: 05

Total number of pages:

B.C.A Semester End Examination
Management Accounting - BCA303
Semester III

Duration: 2 Hrs.

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.No5 answer A or X questions.*

Q.1.A **Fill in the blanks**

(5 x 1Mark)

i. Preparation of financial accounts in compulsory for_____.
ii. The costs that remain fixed regardless of the quantity of production is_____.
iii. Budgetary control is a system of controlling the _____of the business.
iv. The word standard means _____.
v. Reporting is not equivalent to _____.

Q.1.B **Answer the following in one line.**

(5 x 1Mark)

1. Define a master budget.
2. What is an internal report.
3. What is management accounting?
4. What is standard costing?
5. What is a break even point?

Q.2.A Jupiter textiles is expected is expecting to have a an opening balance of 54000 as on 1st April 2011 and it requests you to prepare cash budget fort three months April , May and June. The following information is supplied to you.

(10 marks)

Mon th	Sales (Rs)	Purchases (Rs)	Wages (Rs)	Expenses (Rs)
February	92,000	50,000	8,000	5,000
March	80,000	62,000	8,500	6,000
April	1,00,000	70,000	9,000	7,000

May	1,40,000	85,000	9,500	8,000
June	1,60,000	80,000	10,000	7,000

Additional information:

a) Period of credit allowed by suppliers is two months.

b) 15% of sales is cash and period of credit allowed to customers for credit sales is one month.

c) Delay in payment of wages and expenses is one month.

d) Salaries worth Rs30, 000 is to be paid in the month of June.

Q.2.X The expenses for budgeted production of 10,000 units in a factory are furnished below:

Particulars	Per Unit
Raw material	70
Labour	25
Variable overheads	20
Fixed overheads (100000)	10
Administrative expenses (50,000)	5
Selling expenses (10 % fixed)	13
Distribution expenses (20% fixed)	7
Total cost of sales per unit	150

Prepare a flexible budget for production of 8,000 units 6,000 units Calculate the cost per unit at both levels

Assume that administration expenses are fixed for all level of production

Q.3.A The following figures for profit and sales are obtained from the accounts of Neptune traders.

Year	Sales (Rs.)	Profit (Rs.)
2012	1,00,000	15,000
2013	1,20,000	23,000

Calculate:

(i) P/V ratio;

(ii)Fi xed Cost; and

(iii)P rofit at sales Rs. 40,000;

(iii)Break-Even Sales

(iv)Sales to earn a profit of Rs. 5,000.

(10 marks)

Q.3.X   Uranus Company produces a single article. Following cost data is given about its product:

Selling price per unit	Rs.40
Marginal cost per unit	Rs.24
Fixed cost per annum	Rs. 16000
Output	3000 units

Calculate

(a)P/V ratio

(b) break even sales

(c) sales to earn a profit of Rs. 2,000

(d) Profit at sales of Rs. 60,000

(e) New break even sales, if price is reduced by 10%.

Q.4.A. i. Explain the concept of standard costing and different variances.   (5*2=10 marks)

ii. Explain the various limitations of Standard Costing.

OR

Q.4.X " Budgetary control means worrying before work rather than worrying after ". Justify the statement.

(10 marks)

Q.5.A Explain the various kinds of reports that help managers to take various decisions. (10 marks)

OR

Q.5.A.i. Enumerate the various objectives of Management Reports.   (10 marks)

ii. Write a note on essentials of reports

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Roll No:

Total No: of Questions: 05

Total No: of pages: 03

BCA Semester End Examination
OBJECT ORIENTED CONCEPTS (BCA301)
Semester III

Duration: 02 Hrs.

Maximum Marks: 50 Marks

_____

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.

_____

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

I.   Aggregation is_____ association.
   a. Directional
   b. Indirectional
   c. Semidirectional
   d. Composition

II.   _____ is abstract method in java.
   a. public abstract int sumOfTwo(int n1, int n2){};
   b. int sumOfThree(int n1, int n2, int n3);
   c. public abstract int sumOfTwo(){};
   d. public abstract int sumOfTwo(int n1, int n2);

III.   A Constructor that does not have any parameters is called_____ Constructor.
   a. Custom
   b. Dynamic
   c. Static
   d. Default

1

IV.   If a class is declared abstract, it cannot be instantiated.

     a. True

     b. False

V.   Destructor has the same name as the constructor and it is preceded by _____ .

     a. !

     b. ?

     c. ~

     d. $

B. Answer the following.   (5*1=5)

  i.   Write at least two rules for operator overloading.

  ii.   List least two unary operators that can be overloaded.

  iii. List any two file modes used in files.

  iv.   What is generic programming?

  v.   What relationship does aggregation represents?

Q2. Answer the following   (10)

  A. What is this() and super() with respect to constructors in java?   (2)

  B. How files can be manipulated in java program?   (3)

  C. Compare procedure-oriented and object oriented paradigms.   (5)

Q3. Answer the following   (10)

  A. Explain the concept used in following code   (2)

    Box B1=new Box();

    Box B2=new Box();

    Box B3;

    B3=B1+B2;

B. What is function template? Give an example. (3)

C. What is encapsulation? Explain with example. (5)

Q4. Answer the following (10)

A. What is the difference between "abstract" classes and interfaces? (2)

B. Differentiate between function overloading and function overriding. (3)

C. What is inheritance? Explain the type of inheritance. (5)

Q5. Answer the following (10)

A. What is stream? List the standard streams in java. (2)

B. What is the purpose of following keywords in java (3)
   a. public
   b. private
   c. protected

C. What is exception? Explain exception handling mechanism with example. (5)

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Roll No:

Total No. of Questions: 05

B.C.A. Semester End Examination
Database Management Systems (BCA302)
Semester III

Total No. of pages: 02

Duration: 02 Hrs.

Maximum Marks: 50 Marks

Instructions: 1) All questions are compulsory Question.
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.

1. i) Define the following terms:

   a. Database.

   b. Data Warehousing

   c. Primary Key

   d. Multi-valued Attribute

   e. Commit

[5 x 1]

  ii) Answer each of the following in one line:

   a. What is the role of database administrator in DBMS?

   b. Enlist any two applications of data mining.

   c. What is meant by referential integrity?

   d. Give an example for derived attribute.

   e. Give one point of difference between good decomposition and bad decomposition.

[5 x 1]

2. Answer the following:

   a. Highlight the three level database architecture features along with a diagram.

   b. Enlist three advantages and three disadvantages of DBMS. [2]

   c. Name and explain any two data models. Draw necessary diagrams and give suitable examples. [3]

3. Answer the following: [5]

   a. Explain the various kinds of keys and their usage.

   b. Write a note on ODBC. [2]

   c. Draw an ER-Diagram for a student database. [3]

[5]

4. **Answer the following:**

    a. With an example explain Boyce Codd normal form. [2]

    b. Write a note on ACID properties of a transaction. [3]

    c. What is normalization? Explain the various rules of 1NF, 2NF and 3NF. [5]

5. **Answer the following:**

    a. With an example explain the concept of multi-valued dependencies. [2]

    b. What is a deadlock? Compare deadlock prevention and deadlock avoidance. [3]

    c. Write a note on **any two** of the following emerging trends in database technology. Give suitable examples/diagrams wherever applicable: [5]

       i. Knowledge database

       ii. Multimedia database

       iii. Management Information System

       iv. Office Automation System

Roll No:

Total No of Questions: 05

Total No of Pages: 02

BCA Semester End Examination

Communication and Presentation Skills (BCA 307)

Semester No: III

Duration: 2 Hours

Maximum Marks: 50

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. Why is there a need for Internal Communication?

2. How should an interviewer prepare himself for the Interview?

3. How are Communication Skills essential for Professional success?

4. What is the difference between Sender and Receiver in the communication cycle?

5. What is decoding?

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

1. Compare Oral and Written form of Communication?

2. List any five disadvantages of interviews as a job selection technique?

3. Explain the importance of External Communication in a Business Organisation?

4. To create a sense of credibility, how should the presenter introduce himself/herself?

5. List five ways to make a presentation visually appealing.

Q.2.A) How to achieve Effective Communication?   (10)
OR

Q.2.B) Why is 'Communication' so important in human society?   (10)

Q.3.A). How does one demonstrate good Communication skills in an Interview?   (10)
OR

Q.3.B). What are the different types of Interviews. Elaborate with relevant examples? (10)

Q.4.A) Analyse the common mistakes that presenters make while giving a presentation. (10)

OR

Q.4.B) Write a note on 'strategies to overcome anxiety before presentations.' (1 0)

Q.5.A). Explain the importance of Communication at Management Level (10)

OR

Q.5.B). Describe in detail the different types of Communication? (10)