

B.C.A – IInd Year

SEM – III & IV

Previous Year

Question Papers

Academic Year:

(2018-19)



Please Note: This set has been prepared based on the papers received to us from the Examination Cell. It may have missing papers on non-availability of the same.



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B.C.A. (Part - II) (Semester - III) Examination, May - 2019
COMMERCE & MANAGEMENT
Cost Accounting (Paper - 301)
Sub. Code : 63396

Day and Date : Friday, 03 - 05 - 2019

Total Marks : 80

Time : 10.30 a.m. to 01.30 p.m.

- Instructions :
- 1) Attempt any four questions from Q.No.1 to Q.No.7.
 - 2) Q.No. 8 is compulsory.
 - 3) Figures to the right indicate full marks.

Q1) Defines the concept of 'Cost' and cost accounting; explain in details objectives of cost accounting? [16]

Q2) Explain in details of elements of cost? [16]

Q3) From the following prepare a statement of cost of a concern: [16]

	Rs.
Opening stock of Raw materials	84,000
Closing stock of Raw materials	70,000
Purchase	2,80,000
Drawing expenses (factory)	7,000
Cash discount	5,600
Salary to Salesman	15,400
Bad debts	8,400
Director fees	12,600
Depreciation of office furniture	3,500
Office rent	14,000
Factory rent	21,000
Depreciation of plant	10,500
Unproductive wages	14,000
Other direct expenses	38,500
Wages	1,75,000
Carriage Inwards	17,500

P.T.O.

Q4) From the following particulars relating to material 'X', show how the value of the issues should be arrived at under LIFO method. [16]

Date	Transactions-
1.1.2016	Opening stock 1000 units at Rs. 5 each.
3.1.2016	Purchased 900 units at Rs. 6 each.
7.1.2016	Issued 1200 units
11.1.2016	Purchased 800 units at 6.20 each
13.1.2016	Purchased 300 units at Rs. 6.40 each



Q5) Define cost accounting and financial accounting and explain difference Between cost accounting and financial accounting? [16]

Q6) Explains the methods of Time keeping and Time booking? [16]

Q7) Explain in details FIFO and LIFO methods of pricing material issues? [16]

Q8) Write short notes on (Any Four) : [16]

- Overhead cost
- Cost unit
- Reconciliation of cost and financial accounting
- Process costing
- Apportionment and Absorption of overheads
- Overtime





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B.C.A. (Faculty of Commerce) (Part - II) (Semester - III)
Examination, May - 2019
COMMERCE
Human Resource Management
Sub. Code : 63397

Day and Date : Saturday, 04 - 05 - 2019

Total Marks : 80

Time : 10.30 a.m. to 01.30 p.m.

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

- Q1) What is HRM? Explain functions of HRM and Organization of HR Department. [16]
- Q2) What is HRD. Explain limitations & Challenges of HRM in I.T. Industry. [16]
- Q3) Explain Process of HRP in I.T. Industry. [16]
- Q4) Define the term recruitment & selection. Discuss selection procedure followed in I.T. industry. [16]
- Q5) Explain concept of Training & Development. Discuss Training & Development methods followed in I.T. Industry. [16]
- Q6) What is stress? Explain various stress management practices in I.T. Industry. [16]
- Q7) What is mean by Employee Separation? Explain different Employee Separation Practices in I.T. Industry. [16]
- Q8) Write short notes (any two): [16]
- Recent trends in IT industry.
 - Lay off
 - External mobility.
 - Virtual organization.





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B.C.A. (Part - II) (Semester - III) Examination, May - 2019

SYSTEM ANALYSIS AND DESIGN

Sub. Code : 63398

Day and Date : Monday, 06 - 05 - 2019

Total Marks : 80

Time : 10.30 a.m. to 01.30 p.m.

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

- Q1) a) What is software testing? Explain types of software testing. [8]**
b) Explain need and importance of software maintenance. [8]
- Q2) What is file? Explain different types of files. [16]**
- Q3) a) Write the guidelines for designing data entry screen. [8]**
b) What is report? Explain different types of report. [8]
- Q4) What is software system? Describe different phases in SDLC. [16]**
- Q5) a) Draw ERD for library system. [8]**
b) Explain the role of system Analyst. [8]
- Q6) Explain different fact finding techniques in software development. [16]**
- Q7) What is system? Explain Characteristics, elements and different types of system in detail. [16]**
- Q8) Write short notes on (any 4) : [16]**
- a) Economic Feasibility
 - b) DFD
 - c) Validation testing.
 - d) System analysis
 - e) System implementation



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B.C.A. (Part - II) (Semester - III) (Faculty of Commerce)
Examination, May - 2019
OBJECT ORIENTED PROGRAMMING WITH C++
Sub. Code : 63399

Day and Date : Tuesday, 07 - 05 - 2019

Total Marks : 80

Time : 10.30 a.m. to 01.30 p.m.

- Instructions: 1) Each question carries 16 marks.
2) Solve any FOUR questions from Q.1 to Q.7
3) Q.8 is compulsory.

- Q1) Explain different types of operator in C++ with example. [16]
- Q2) a) What is class? Explain array of object with example. [8]
b) Explain function overloading with example. [8]
- Q3) a) What is static variable? Explain static data member with example. [8]
b) What is destructor? Explain how it differs from constructor. [8]
- Q4) Write object oriented program to accept range and display palindrome numbers between accepted range. [16]
- Q5) What is inheritance? Explain multilevel inheritance with example. [16]
- Q6) What is constructor? Explain constructor overloading with example. [16]
- Q7) What is file? Explain file pointer and file opening modes with example. [16]
- Q8) Write short notes on (any four): [16]
a) Characteristics of OOP
b) Identifiers
c) Cout
d) Virtual function
e) Friend function



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B.C.A. (Part - II) (Semester - III) Examination, May - 2019
COMPUTER ORIENTED STATISTICAL METHODS (Paper - 305)
Sub. Code : 63400

Day and Date : Wednesday, 08 - 05 - 2019

Total Marks : 80

Time : 10.30 a.m. to 01.30 p.m.

- Instructions :
- 1) Question no.8 is compulsory.
 - 2) Attempt Any Four questions from 1 to 7.
 - 3) Figures to the right indicate full marks.
 - 4) Use of non-programmable calculator is allowed.
 - 5) Graph paper will be supplied on request.



- Q1) a)** Define Statistics. Explain Scope of statistics. **[8]**
b) Define mean deviation (M.D) and coefficient of M.D. Obtain M.D. about median & its relative measures of dispersion from the following data. **[8]**
30, 14, 10, 17, 23, 20, 19, 26, 21, 20, 30

- Q2) a)** Define Population & Sample with example. Explain SRSWR and SRSWOR. **[8]**
b) Define Standard Deviation (S.D) & Coefficient of Variation (C.V). The first of two samples has 100 items with mean 60 and variance 25. If the whole group has 300 items with mean 62 & Standard deviation 5.86 then calculate mean & variance of other group. **[8]**

- Q3) a)** Explain any two types of correlation. Find Rank correlation coefficients for the Following data : **[8]**

X	42	48	42	35	33	35	32
Y	25	28	27	25	29	30	35

- b) Define Time series and Uses of time series. Calculate 4 yearly moving average method from the following data (Without graph) **[8]**

Year :	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Sales :	13	15	18	16	18	20	22	20	25	22

P.T.O.

Q4) a) Define Mean and Median. Find mean and median for the following data. [8]

Age (years) :	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
No. of persons:	16	21	20	28	10	10	3	1	1

b) The given two regression equations $10X+3Y=62$ and $6X+5Y=50$ are X on Y and Y on X respectively. [8]

Find i) Mean values of X and Y

ii) Correlation Coefficient between X and Y

Q5) a) State the empirical relation between Mean, Mode & Median. Use it to estimate Mode of the distribution whose Mean is 42.68 and Median is 58.92. [8]

b) Following data represents the number of students admitted for BCA course in a certain college [8]

Classes :	BCA-I	BCA-II	BCA-III
No. of Students :	70	65	45

Draw a Pie-diagram for the above data.



Q6) a) Define Regression & for the following data, find regression equation of Y on X And estimate the value of Y when $X = 50$ [8]

X	78	36	98	25	75	82	90	62	65	39
Y	84	51	91	60	68	62	86	58	53	47

b) Explain Components of Time Series. [8]

Q7) a) Define absolute & relative measures of dispersion. If $Q.D = 25$ & its relative measure is 0.65 then find value of first & third quartiles of the data. [8]

b) State merits & demerits of mean, mode & median. [8]

- Q8) a) State properties of Correlation Coefficients. Find Correlation coefficient from the following data. [8]

Price	30	34	35	36	37	38	40	42	43	45
Demand	25	29	30	31	32	33	35	36	37	42

- b) Following data gives number of catches taken by A and B in 5 one day matches. [8]

Catches taken by A : 4 5 4 3 5

Catches taken by B : 1 0 4 2 1

Find who is consistent in taking the catches.



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No.

**B.C.A. (Part - II) (Semester - III) (New) Examination,
January - 2019**

COST ACCOUNTING (Paper - I)

Sub. Code : 63396

Day and Date : Thursday, 10 - 01 - 2019

Total Marks : 80

Time : 12.00 noon to 02.00 p.m.

- Instructions:
- 1) Attempt any four questions from Q.No.1 to Q.No.7.
 - 2) Q.No. 8 is compulsory.
 - 3) Figure to the right indicates full marks.

Q1) What do you mean by Cost and Costing? Explain the advantages & limitations of Cost Accounting. [16]

Q2) How the Cost Accounting differs from Financial Accounting [16]

Q3) From the following figures prepare cost sheet to show the cost of production of each unit of the goods manufactured. Also prepare a statement to show the profit earned. [16]

Particulars	Amount in Rs
Opening stock 1.4.2006	
Raw Materials 500 units	300
Finished goods 500 units	1610
Purchases	
Raw Materials 10000 units	9635
Closing stock 31.3.2007	
Raw Materials 300 units	755
Finished Goods 700 units	1834
Office salaries, rent & rates	1224
Repairs & depreciation of plant & machinery	1020
Printing & stationary	918
Manufacturing wages	9690
Coal consumed	2958
Rene & rates of factory	1734
Commission on sales	500

There was no wastage during production. Selling price was Rs. 3.00 per Unit



Q4) Explain in detail simple Average & Weighted Average methods of pricing material Issues. [16]

Q5) Prepare a stores ledger account showing the receipt and issues of material X for March, 2015, Pricing the material issued on the basis of LIFO Method. [16]

Receipts			Issues	
Date	Quantity	Rate per unit	Date	Quantity
1.3.2015	200 units	Rs.20	4.3.2015	100 units
18.3.2015	309 units	Rs.18	10.3.2015	50 units
30.3.2015	100 units	Rs.16	20.3.2015	250 units
			31.3.2015	100 units

Q6) Explain in detail cost unit and cost centre. [16]

Q7) Explain in detail contract costing and reconciliation of cost and financial accounting. [16]

Q8) Write short notes (any four) [16]

- Objectives of cost accounting
- Elements of cost
- Labour cost
- Overheads cost
- Transport costing
- FIFO



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B.C.A. (Part - II) (Semester - III) Examination, January - 2019

HUMAN RESOURCE MANAGEMENT

Sub. Code : 63397

Day and Date : Friday, 11 - 01 - 2019

Total Marks : 80

Time : 12.00 noon to 02.00 p.m.

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

Q1) Discuss in detail different administrative practice using in IT industry. [16]

Q2) Define the concept of HRM and explain nature and Role of HRM. [16]

Q3) Explain in detail selection process in IT field. [16]

Q4) What is mean by stress? Explain various sources of stress. [16]

Q5) Explain the various employee separation practice in IT [16]

Q6) What is training and development? Explain various methods of training and development. [16]

Q7) Explain various challenges of HRM in detail. [16]

Q8) Write Short Note (any two) [16]

- a) Functions of HRM
- b) Virtual organization
- c) HRIS
- d) External mobility



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B.C.A. (Commerce) (Part - II) (Semester - III)

Examination, January - 2019

SYSTEM ANALYSIS & DESIGN (Paper - 303)

Sub. Code : 63398

Day and Date : Saturday, 12 - 01 - 2019

Total Marks : 80

Time : 12.00 noon to 02.00 p.m.

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

- Q1)** Explain different fact finding techniques in software development. [16]
- Q2)** a) What is System? Explain different types of system with example. [8]
b) Explain advantages and limitations of magnetic tape storage. [8]
- Q3)** a) What is file design? Explain different types of files. [8]
b) What do you mean by Input design? Explain importance of input validation. [8]
- Q4)** a) Explain need and importance of software maintenance. [8]
b) Explain role of system analyst in detail. [8]
- Q5)** What is SDLC? Explain different phases of SDLC with various activities involved in each phase. [16]
- Q6)** a) What are the main activities involved in requirement analysis process? [8]
b) What is software testing? Explain types of software testing. [8]

P.T.O.

Q7) a) What is report? Explain different types of report.

[8]

b) Draw ERD for bank management system.

[8]

Q8) Write short notes on (Any Two)

[16]

a) DFD

b) Characteristics of System

c) Feasibility Study





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Total No. of Pages : 2

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B.C.A. (Part - II) (Semester - III) Examination, January - 2019

COMMERCE

Object Oriented Programming with C++ (Revised)

Sub. Code : 63399

Day and Date : Monday, 14 - 01 - 2019

Total Marks : 80

Time : 12.00 noon to 02.00 p.m.

- Instructions :**
- 1) Solve any four questions from Q.1 to Q.7.
 - 2) Q.8 is compulsory.
 - 3) Figures to the right indicates full marks.

- Q1) a) Explain various features of Object Oriented Programming. [8]**
b) What is friend function? Explain with example. [8]

Q2) What is inheritance? Explain types of inheritance with suitable example. [16]

- Q3) a) Write a C++ Program to enter three digit number and check this is
palindrome or not. [8]**
b) What is destructor? Explain with suitable example. [8]

**Q4) What is polymorphism? Explain types of polymorphism with suitable example.
[16]**

- Q5) a) List and explain different data types in C++. [8]**
b) What is constructor? Explain parameterized constructor with example.
[8]

- Q6) a) What is file? Explain different file opening modes. [8]**
b) Explain the concept of static member function. [8]

- Q7) a) List and explain various access specifiers used in C++. [8]**
b) What is loop? Explain for loop with suitable example. [8]

P.T.O.

Q8) Write short notes on (any four):

- a) Inline function
- b) Array of object
- c) Encapsulation
- d) Pure virtual function
- e) Class and object
- f) Abstraction



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B.C.A. (Part - II) (Semester - III) Examination, January - 2019
COMPUTER ORIENTED STATISTICAL METHOD (Paper - 305)
Sub. Code : 63400

Day and Date : Tuesday, 15 - 01 - 2019

Total Marks : 80

Time : 12.00 noon to 02.00 p.m.

- Instructions :
- 1) Figures to the right indicate full marks.
 - 2) Attempt any four questions from Q.1 to Q.7.
 - 3) Question number 8 is compulsory.
 - 4) Use of non-programmable calculator is allowed.
 - 5) Graph paper will be supplied on request.



Q1) a) Define Sampling. Explain advantages of sampling method over Census method. [8]

b) Explain Discrete & Continuous frequency distribution in detail. [8]

Q2) a) What is mean by mode? Explain computation of mode by using different method. [8]

b) Obtain Quartiles for the following frequency distribution. [8]

Daily Salary:- 1400-1600 1600-1800 1800-2000 2000-2200 2200-2400 2400-2600

Frequency:- 12 30 55 40 35 28

Q3) a) Explain Relative and Absolute Measures of Dispersion and requirements of Good Measures of Dispersion. [8]

b) Find M.D. for mean, median, mode and their corresponding relative measures of dispersion in each case. [8]

X : 2 4 6 8 10

F : 2 4 14 8 2

- Q4) a) Define Correlation. Explain types of correlation with proper correlation. [8]
 b) Determine the regression equation by using the regression slope coefficient and intercept values as shown in the regression table given below. [8]

X Values:- 55 60 65 70 80

Y Values:- 52 54 56 58 62

For the given data set of data, solve regression slope and intercept value.

- Q5) a) Define Karl Pearson's coefficient of correlation. Explain the situations where $r = -1$, $r = 0$, $r = +1$. [8]
 b) Calculate the coefficient of standard deviation and coefficient of variation from the following distribution of marks: [8]

Marks 1-3 3-5 5-7 7-9

No of students 40 30 20 10

- Q6) a) A group of 50 items have Mean and S.D. 61 and 8 respectively. Another group of 100 observations has Mean and S. D. 70 and 9 respectively. Find mean and S.D. of combined group. [8]
 b) Derive linear regression equation of y on x by the method of least squares. [8]

- Q7) a) Explain components of Time series analysis. [8]
 b) Define statistics. Explain scope of statistics. [8]

Q8) Solve Any TWO [2×8=16]

- a) Coefficient of Correlation.
 b) Regression.
 c) Variance.
 d) Mean Deviation.



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B.C.A. (Part- II) (Semester - III) Examination, November - 2018
COMMERCE & MANAGEMENT (Paper-I)

Cost Accounting

Sub. Code : 63396

Day and Date : Saturday, 03- 11 - 2018

Total Marks : 80

Time : 10.30 a.m. to 1.30 p.m.

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

Q1) Explain the reconciliation of cost and financial accounts. State the causes of difference between profit or loss shown by cost accounting and financial accounting? [16]

Q2) Explain the various methods of pricing of material issues? [16]

Q3) The following data were obtained from the record of a manufacturing concern. [16]

	Rs.
Purchases of Raw materials	1,20,000
Direct wages	1,00,000
Rent and Rates	40,000
Carriage inward	2,000
Opening Stock	
Raw materials	20,000
Finished goods	16,000
Closing Stock-	
Raw materials	22,000
Finished goods	-
Work in Progress-Opening Stock	4,800
Closing Stock	10,000
Cost of factory supervision	8,000
Sales of finished goods	3,00,000

Advertising @ 0.40 per ton sold 64,000 tons of the commodities was produced
 prepare Cost sheet.

P.T.O.



Q4) From the information may 2011 relating to seema & co. Ltd., Calculate the value of inventory on 30th may as per LIFO and FIFO method. [16]

May 1 opening stock 300 unit @ Rs. 6 each.

May 7 Purchase 300 unit @ Rs. 8 each.

May 13 Issued 400 units

May 21 Purchased 300 Unit @ Rs.9 each.

May 26 Issued 400 units.

May 30 Issued 50 units.

Q5) What do you mean by cost accounting. Explain the advantages and limitation of cost accounting? [16]

Q6) Define overhead cost and explain the classification of overhead. [16]

Q7) Explain in detail process costing? [16]

Q8) Write short note on (Any Four) [16]

- a) Contract costing
- b) Objective of cost accounting
- c) simple average method
- d) Service costing
- e) Labour turnover
- f) Elements of cost



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B.C.A. (Faculty of Commerce) (Part-II) (Semester-III)
Examination, November-2018
HUMAN RESOURCE MANAGEMENT (Paper-302)
Sub. Code: 63397

Day and Date : Monday, 12 - 11 - 2018

Total Marks : 80

Time : 10.30 am to 01.30 p.m.

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

- Q1) Define the concept of HRM and explain various functions of HRM. [16]
- Q2) Explain in detail sources of recruitment in IT industry. [16]
- Q3) Discuss in detail various employee separation in IT Field. [16]
- Q4) What is training and development? Explain various methods of training and development. [16]
- Q5) Explain in detail recent trends in IT industry. [16]
- Q6) a) Explain the role of HRM. [8]
 b) What is the importance of H.R. Department in organization. [8]
- Q7) Explain various Limitation of HRM. [16]
- Q8) Write short Note (Any two) [16]
- a) Lay off
 - b) HRIS
 - c) Exist Interview
 - d) Stress management



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B.C.A. (Faculty of Commerce) (Part-II) (Semester - III)
Examination, November - 2018
SYSTEM ANALYSIS & DESIGN
Sub. Code: 63398

Day and Date : Tuesday, 13 - 11 - 2018

Total Marks : 80

Time : 10.30 a.m. to 1.30 p.m.

- Instructions :**
- 1) Attempt any 5 questions.
 - 2) All questions carries equal marks.
 - 3) Figures in right side indicate full marks.

- Q1)** Define system. Explain elements and types of system in detail. [16]
- Q2)** What is fact finding technique? Explain different fact finding techniques in detail. [16]
- Q3) a)** What is system analysis? Explain significance of system analysis for requirement gathering. [8]
b) Define file design. Explain working of index sequential file with example. [8]
- Q4) a)** Define ERD. Draw ERD for college management system. [8]
b) What is output design? Explain types of output design. [8]
- Q5) a)** What is feasibility study? Explain types of feasibility study with its importance in software development. [8]
b) Explain different steps of SDLC with neat diagram. [8]
- Q6)** Define input design. Which are the different data entry methods used in software development? Explain guidelines for user interface design. [16]
- Q7) a)** What is system development? Explain characteristics of system. [8]
b) Explain any two software testing methods. [8]
- Q8)** Write short notes on (Any 2) [16]
- a) Black Box Testing.
 - b) Software maintenance
 - c) Computer based system.
 - d) Data storage



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

Examination, November - 2018

COMMERCE

Object Oriented Programming With C++

Sub. Code : 63399



Day and Date : Wednesday, 14- 11 - 2018

Total Marks : 80

Time : 10.30 a.m. to 1.30 p.m.

- Instructions :**
- 1) Solve any four questions from Q.1 to Q.7.
 - 2) Question number 8 is compulsory.
 - 3) Figures to the right indicate full marks.

Q1) a) Explain various Object Oriented Programming concepts. [8]

b) What is Class? Explain with suitable example. [8]

Q2) What is constructor? Explain types of constructor with suitable examples. [16]

Q3) a) Explain various operators used in C++. [8]

b) Write a C++ program to check entered number is even or odd. [8]

Q4) What is polymorphism? Explain compile time polymorphism with suitable example. [16]

Q5) a) Write a C++ program to overload unary minus operator. [8]

b) Define file. Explain various input/output operations. [8]

Q6) a) Explain various decision making statements in C++. [8]

b) What is destructor? Explain with suitable example. [8]

P.T.O.

- Q7)** a) What is inheritance? Explain multilevel inheritance with example. [8]
b) What is friend function? Explain with example. [8]

Q8) Write short notes on.(any four) [16]

- a) Operator Precedence
- b) Friend Class
- c) Constants in C++
- d) Virtual function
- e) Class and object
- f) Access Specifiers in C++.





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B.C.A. (Faculty of Commerce) (Part - II) (Semester - III)
(Revised) Examination, November - 2018
COMMERCE (Paper - 305)
Computer Oriented Statistical Methods
Sub. Code: 63400

Day and Date : Thursday, 15 - 11 - 2018

Total Marks : 80

Time : 10.30 a.m. to 1.30 p.m.

- Instructions :
- 1) Each question carry 16 marks.
 - 2) Solve any four questions from Q.1 to Q.7.
 - 3) Q.8 is compulsory.
 - 4) Use of Non programmable calculator is allowed.
 - 5) Graph paper will be supplied on request.

- Q1) a) Define Statistics. Explain Qualitative data and Quantitative Data. [8]
b) Define time series and find 3 year moving average of given data: [8]

Year	1999	2000	2001	2002	2003	2004	2005
Sale (in Lakh)	30	32	33	31	40	39	41

- Q2) a) Explain Pie-Diagram. Following data represents Population Growth rate of Country so draw the pie-Diagram of following. [8]

Country	India	Shrilanka	USA	UK	Mexico
Population Growth Rate (%)	2.2	1.8	2.0	1.8	3.2

- b) Explain : [8]
- i) Primary Data and Secondary Data.
 - ii) Population and Sample.

- Q3) Find median and mode for the following data. [16]

Class	10-20	20-30	30-40	40-50	50-60
Frequency	7	9	15	11	8

P.T.O.

- Q4) a) Define Mean Deviation (M.D.) and coefficient of M.D. Obtain M.D. about mean and its relative measure from the following data 35, 29, 31, 37, 55, 63, 72. [8]
- b) Define S.D. and its coefficient. Calculate S.D. and coefficient of S.D. for the following data: [8]

Value (X)	7	8	9	10	11	12	13
Frequency (f)	4	6	9	12	9	6	4

- Q5) a) Give the meaning of Dispersion. Distinguish between absolute measure of dispersion and relative measure of dispersion. [8]
- b) Find: [8]
- i) Regression coefficient
 - ii) Correlation (r)
 - iii) Regression line of given data
 - iv) Find x when $y = 59$ and find y when $x = 38$



Supply	20	22	27	34	36	37
Demand	29	31	42	49	52	55

- Q6) a) Explain sampling method and census method. State advantages of sampling method over census method. [8]
- b) Mean Weight of 150 students in certain class is 60 kg, mean weight of boys in class is 70 kg and girls is 55 kg, find number of boys and number of girls in the class room. [8]

Q7) a) Define Cumulative Frequency. Draw less than Ogive Curve for the following data: [8]

Class	20-25	25-30	30-35	35-40	40-45	45-50	50-55
Frequency	4	9	13	18	6	3	2

b) Find the missing frequency. [8]

Class	11	13	15	17	19
Frequency	12	10	--	12	13

Q8) Write short notes on. (any four) [16]

- a) Histogram.
- b) Frequency and Frequency distribution.
- c) SRSWR and SRSWOR.
- d) Merits and demerits of mean.
- e) Secular trend and seasonal variations.





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SA - 432

Total No. of Pages : 2

**B.C.A. (Faculty of Commerce) (Part - II) (Semester - IV)
Examination, May - 2019**

ENTREPRENEURSHIP DEVELOPMENT (Paper - 401)

Sub. Code : 63403

Day and Date : Wednesday, 08 - 05 - 2019

Total Marks : 80

Time : 02.30 p.m. to 05.30 p.m.

- Instructions :**
- 1) Question number 8 is compulsory.
 - 2) Attempt any four from question number 1-7.
 - 3) Each questions carry equal marks.

Q1) What do you mean by the term Entrepreneur? Explain different classifications of Entrepreneur.

Q2) Define the term 'Entrepreneurship'. Explain different factors stimulating Entrepreneurship.

Q3) Explain the concept and objectives of EDP. And discuss the process and phase of EDP.

Q4) Define the term project and project life cycle. And explain the classification of project.

Q5) Prepare a project report for starting a dairy.

Q6) State the importance for institutional support for Entrepreneurship development and explain the objectives and functions of DIC.

P.T.O.

Q7) Explain the theories of Entrepreneurship in details.

Q8) Write short notes (Any four) :

- a) SIDO
- b) Difference between the Entrepreneur and Netpreneur.
- c) Project Management.
- d) Obstacles in Entrepreneurship growth.
- e) Functions of Entrepreneur.





SA - 433

Total No. of Pages : 2

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**B.C.A. (Faculty of Commerce) (Part - II) (Semester - IV)
Examination, May - 2019**

ORGANISATIONAL BEHAVIOUR (Paper - 402)

Sub. Code : 63404

Day and Date : Thursday, 09 - 05 - 2019

Total Marks : 80

Time : 02.30 p.m. to 05.30 p.m.

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

Q1) What is mean by 'Organisational Behaviour' and explain its nature and scope.

Q2) What is meant by 'Motivation'? Explain Maslow's Need Hierarchy Theory of motivation.

Q3) Explain personal and organisational values.

Q4) What do you mean by 'Personality'? Explain the personality theories.

Q5) What is stress? Explain the causes of stress.

Q6) What is meant by 'Organisational Conflict'? Explain the Inter-personal, Intra-personal and Inter-group conflicts.

Q7) What is the nature of group? Explain the various types of groups.

P.T.O.

Q8) Write short answers. (Any Two) :

- a) Explain the disciplines contributing to organisational behaviour.
- b) Effects of employees attitudes.
- c) Write about team building and effective team works.





SA - 434

Total No. of Pages : 2

Seat No.	
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**B.C.A. (Faculty of Commerce) (Part- II) (Semester - IV)
Examination, May - 2019**

DBMS using MS Access (Revised) (Paper - 403)

Sub. Code : 63405

Day and Date : Friday, 10 - 05 - 2019

Total Marks : 80

Time : 02.30 p.m. to 05.30 p.m.

- Instructions :**
- 1) Attempt any 4 questions form Q. 1 to Q. 7.
 - 2) Q. 8 is Compulsory.

- Q1)** What is normalization? Explain 1NF, 2NF, 3NF with appropriate example. [16]
- Q2) a)** Explain different types of database system. [8]
- b)** What is mean by constraints in DBMS? Explain different types of constraints in DBMS. [8]
- Q3) a)** What are the different features of MS-Access. [8]
- b)** What is SQL? Explain different features of SQL and data types used in SQL? [8]
- Q4) a)** Explain different aggregate functions in SQL. [8]
- b)** Explain overall system structure of DBMS [8]
- Q5) a)** Explain different types of data models in DBMS [8]
- b)** Explain the following with examples [8]
- i) Insert command
 - ii) Delete command
 - iii) Update Command
 - iv) Select Command

P.T.O.

Q6) What is an entity? What is a relationship? Explain E-R modeling with the help of database for student management system? [16]

Q7) a) Write proper steps to create report using MS-Access. [8]

b) What are the advantages of DBMS. [8]

Q8) Write short notes on (Any Four) [16]

- a) Data independence
- b) Network model
- c) Primary key and foreign key
- d) DBA
- e) Disadvantages of DBMS



Q8) Write Short Note on (Any two) :

- a) Marquee
- b) List Tag
- c) Recordset object
- d) Keywords in JavaScript





SA - 532

Total No. of Pages : 3

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B.C.A. (Part - II) (Semester - IV) Examination, May - 2019

COMPUTER

Mathematical Foundation (Paper - 405)

Sub. Code : 63407

Day and Date : Monday, 13 - 05 - 2019

Total Marks : 80

Time : 2.30 p.m. to 05.30 p.m.

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

Q1) a) If p : It daytime, q : It is warm. **[8]**

Give the compound statement in verbal form denoted by.

- | | |
|----------------------|---------------------------|
| i) $p \wedge \sim q$ | ii) $p \rightarrow q$ |
| iii) $p \vee q$ | iv) $q \leftrightarrow p$ |

b) Define the terms: Tautology and contradiction. Give example of each. **[8]**

Q2) a) Define Cartesian Product. If $A = \{1, 2, 3, 4\}$, $B = \{4, 5\}$, find **[8]**

- | | |
|-------------------|------------------|
| i) $A \times B$ | ii) $B \times A$ |
| iii) $B \times B$ | |

b) Give the meaning of conjunction and disjunction using truth table, Prove the following equivalence $(p \wedge q) \equiv (p \rightarrow \sim q)$ **[8]**

Q3) a) Define power set and obtain power set of $A = \{3, 4, 5\}$. Using venn diagram represent the following. **[8]**

- | | |
|----------------|----------------|
| i) $A' \cup B$ | ii) $A \cap B$ |
|----------------|----------------|

b) Define symmetric matrix. If $A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}$ $B = \begin{bmatrix} 2 & 3 & 4 \\ -1 & 0 & 5 \end{bmatrix}$ **[8]**

- | | |
|-------------------------|----------------------|
| Verify : i) $(A')' = A$ | ii) $(A+B)' = A'+B'$ |
|-------------------------|----------------------|

P.T.O.

Q4) a) Define the terms: Weighted Graph and Bipartite graph. Give an example of each. [8]

b) Define the term: Matrix and Determinant. Find the value of x, if



$$\begin{vmatrix} 2 & 5 \\ x & 3x+1 \end{vmatrix} = 0$$

[8]

Q5) a) There are 260 persons with a skin disorder, if 150 had been exposed to the chemical A, 74 to the chemical B, and 36 to both chemical A and B. Find the number of persons exposed to [8]

i) Chemical A but not Chemical B

ii) Chemical A or Chemical B

b) Define the term path cycle in graph theory. Construct a graph of 2-regular graph on 6 vertices. [8]

Q6) a) Define inverse of matrix. $A = \begin{bmatrix} 2 & 1 & 3 \\ 1 & 0 & 1 \\ 2 & 1 & 1 \end{bmatrix}$ exists and find its inverse. [8]

b) Test whether the following statement are true or false. [8]

i) There exists a 3-regular graph on nine vertices.

ii) Every closed walk is a cycle.

iii) In any complete graph K_n , number of edges is equal to $\frac{n(n-1)}{2}$.

iv) In any graph, the sum of the degrees of all the vertices is equal to twice the number of edges.

Q7) a) Explain Graph operations with example (Any two operations) [8]

b) Determine the truth values of the following statements. [8]

i) $2 + 2 = 7$ if and only if $5 + 1 = 2$

ii) It is not true that $1 + 1 = 2$ iff $3 + 4 = 5$

iii) London is in India or $3 + 1 = 4$

iv) If $3 + 1 = 4$ then $3 - 2 = 1$



Q8) a) Define the terms: Disjoint and Infinite set. [8]

If $A = \{1, 2, 3, 4\}$, $B = \{3, 4, 5, 6\}$, $C = \{4, 5, 6, 7, 8\}$

and universal set $X = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ then

verify the following:

i) $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$

ii) $(A \cup B)' = A' \cap B'$

iii) $n(A \cup B) = n(A) + n(B) - n(A \cap B)$

b) Define: scalar matrix and Identity Matrix, If, $A = \begin{bmatrix} 1 & 2 \\ -3 & 0 \end{bmatrix}$ then find $A^2 -$

$5A - 2I$ Where I is unit matrix. [8]





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SB-197
Total No. of Pages : 2

B.C.A. (Faculty of Commerce) (Part - II) (Semester -IV)
Examination, November - 2018
ENTREPRENEURSHIP DEVELOPMENT (Paper - 401)
Sub. Code : 63403

Day and Date : Friday, 16- 11 - 2018
Time : 2.30 p.m. to 5.30 p.m.

Total Marks : 80

- Instructions :**
- 1) Question number 8 is compulsory.
 - 2) Attempt any four from questions no. 1 - 7.
 - 3) Each questions carry equal marks.

- Q1)** What do you mean by the term Entrepreneur? Explain different classifications of Entrepreneur.
- Q2)** Define the term 'Entrepreneurship'. Explain different factors stimulating Entrepreneurship.
- Q3)** What do you understand by the term EDP? Explain the role, objectives & functions of National Institute for Entrepreneurship and small Business Development (NIESBD) and National Institute for small Industry Extension Training (NISIET).
- Q4)** Define the term project and project life cycle. And explain the classification of project.
- Q5)** Prepare a project report for starting a Hospital.
- Q6)** Explain the theories of Entrepreneurship in details.
- Q7)** Explain different problems and measures in Entrepreneurship development.

P.T.O.

Q8) Write short notes (Any four) :

- a) Entrepreneurship in service Industry.
- b) Difference between the Entrepreneur and Netpreneur.
- c) Functions of Entrepreneur.
- d) Project management.
- e) Technical Consultancy Organisations (TCO's).



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SB-198

Total No. of Pages :1

B.C.A. (Part-II) (Semester - IV) Examination, November - 2018
ORGANISATIONAL BEHAVIOUR (Paper-402)

Sub. Code : 63404

Day and Date : Saturday, 17- 11 - 2018

Time : 2.30 p.m. to 5.30 p.m.

Total Marks : 80

- Instructions :
- 1) Que. No. 8 is compulsory.
 - 2) Attempt any four questions from Que. No 1 to Que. No 7
 - 3) All questions carry Equal marks.

- Q1) Define 'Organisational Behaviour' and explain the disciplines contributing to Organisational Behaviour.
- Q2) Define Motivation and explain its importance.
- Q3) What is meant by 'Stress'? Explain the sources of stress.
- Q4) What is meant by 'Group'? Explain the nature and types of group.
- Q5) What do you mean by Organisational Conflict? Explain the Inter-personal, Intra-personal and Inter-group conflicts.
- Q6) Explain Theory 'X' and Theory 'Y'
- Q7) Define 'Personality' and explain the theories of personality.
- Q8) Write Short Answers (Any Two).
- a) Explain the nature of Organisational Behaviour.
 - b) What the Johari Window.
 - c) Explain the components of attitude.



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**B.C.A. (Faculty of Commerce) (Part - II) (Semester - IV) (Revised)
Examination, November - 2018
DBMS Using Ms Access (Paper - 403)
Sub. Code: 63405**

Day and Date : Monday, 19 - 11 - 2018

Total Marks : 80

Time : 2.30 p.m to 5.30 p.m.

- Instructions : 1) Attempt any four questions from Q.1 to Q.7
2) Q.8 is compulsory.

- Q1) a) Define DBMS. Explain needs and features of DBMS in detail. [8]
b) Explain the difference between file processing system and DBMS. [8]
- Q2) a) What are the different characteristics of DBMS? Explain it in detail. [8]
b) Draw the architectural diagram of DBMS and explain it in detail. [8]
- Q3) Explain file organization of DBMS in detail. [16]
- Q4) a) What are different aggregate functions in SQL? [8]
b) Explain different types of database systems. [8]
- Q5) a) What are the different operators in SQL. Explain it. [8]
b) Explain different types of constraints used in DBMS. [8]
- Q6) What is mean by relational algebra? Explain different types of operations on relational algebra with an example. [16]
- Q7) a) What are the different features of MS-Access. [8]
b) What is SQL? Explain different DML and DDL commands in SQL [8]
- Q8) Write short notes on (Any four): [16]
a) Data dictionary
b) Services provided by DBMS
c) Data abstraction
d) Cardinality
e) Relationships in DBMS





SB-200

Total No. of Pages :2

Seat No.	
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B.C.A. (Faculty of Commerce) (Part-II) (Semester - IV)

Examination, November - 2018

WEB TECHNOLOGY (Paper-404)

Sub. Code : 63406

Day and Date : Thursday, 22- 11 - 2018

Total Marks : 80

Time : 2.30 pm to 5.30 p.m.

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

- Q1) a) Define Internet? Explain its application briefly. [8]**
b) Explain features and limitations of HTML. [8]

Q2) What is CSS? Explain various types of style sheet with example. [16]

Q3) Explain various events in JavaScript. [16]

Q4) Create a web page for student details and apply validation using JavaScript. [16]

- 1) Name of student
- 2) Address
- 3) City
- 4) Contact number
- 5) Class

- Q5) a) Explain different control statements used in JavaScript. [8]**
b) Explain advantages and limitations of ASP. [8]

P.T.O.

Q6) Write ASP code which accept product name, price and quantity from user and stored it in database. [16]

Q7) a) Explain input tag with its attributes in detail. [8]

b) Explain difference between client side scripting and server side scripting. [8]

Q8) Short notes (any four) [16]

- a) Web server
- b) Data types in JavaScript
- c) <frameset> tag
- d) IIS
- e) tag



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**B.C.A. (Faculty of Commerce) (Part - II) (Semester - IV)
(Revised) Examination, November - 2018
MATHEMATICAL FOUNDATION (Paper - 405)
Sub. Code: 63407**

Day and Date : Saturday, 24 - 11 - 2018

Total Marks : 80

Time : 2.30 p.m. to 5.30 p.m.

- Instructions :**
- 1) Each Question carry 16 marks.
 - 2) Solve any four questions from Q. 1 to Q. 7.
 - 3) Q. 8 is compulsory.
 - 4) Use of Non programmable calculator is allowed.

- Q1) a)** Symbolize the following statements : [8]
- i) He swims iff the water is warm
 - ii) If water is warm then he swims
 - iii) If water is not warm then he does not swim
 - iv) He swims and water is warm
- b) Define the terms : digraph and weighted graph. Give an example of each. [8]
- Q2) a)** Define Cartesian Product If $A = \{a, b, c\}$, $B = \{x, y\}$, find [8]
- i) $A \times B$
 - ii) $B \times A$
 - iii) $B \times B$
- b) Give the meaning of conjunction and disjunction using truth table, prove the following equivalence. [8]
- $$p \leftrightarrow q \equiv (p \rightarrow q) \wedge (q \rightarrow p)$$
- Q3) a)** Define power set and obtain power set of $A = \{a, b, c\}$. Using Venn diagram represent the following. [8]
- i) $A' \cup B'$
 - ii) $A \cap B'$

P.T.O.



- b) Define symmetric matrix. If $A = \begin{bmatrix} 1 & -1 \\ 2 & 3 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 1 \\ 1 & 0 \end{bmatrix}$. Show that $(A + B)^2 \neq A^2 + 2AB + B^2$. [8]

- Q4) a) Define the terms : Bipartite Graph and Complete Bipartite graph. Give an example of each. [8]

- b) Find the value of x, if $\begin{vmatrix} x+2 & 1 & -3 \\ 1 & x-3 & -2 \\ -3 & -2 & 1 \end{vmatrix} = 0$ [8]

- Q5) a) There are 260 persons with a skin disorder, if 150 had been exposed to the chemical A, 74 to the chemical B, and 36 to both chemical A and B. Find the number of persons exposed to [8]

- i) Chemical A but not Chemical B
- ii) Chemical A or Chemical B.

- b) Define the term path and cycle in graph theory. Construct a graph of 2-regular graph on 6 vertices. [8]

- Q6) a) Define inverse of matrix $A = \begin{bmatrix} 2 & 1 & 3 \\ 1 & 0 & 1 \\ 2 & 1 & 1 \end{bmatrix}$ exists and find its inverse. [8]

- b) Test whether the following statements are true or false. [8]

- i) There exists a 3-regular graph on nine vertices.
- ii) Every closed walk is a cycle

- iii) In any complete graph K_n , number of edges is equal to $\frac{n(n-1)}{2}$

- iv) In any graph, the sum of the degrees of all the vertices is equal to twice the number of edges.



Q7) a) Determine the truth values of the following statements : [8]

- i) $2 + 2 = 7$ if and only if $5 + 1 = 2$
- ii) It is not true that $1 + 1 = 2$ iff $3 + 4 = 5$
- iii) London is in India or $3 + 1 = 4$
- iv) If $3 + 1 = 4$ then $3 - 2 = 1$

b) Explain matrix Representation of Graph. Draw a multigraph corresponding

to adjacent matrix
$$\begin{bmatrix} 0 & 1 & 0 & 1 \\ 1 & 0 & 2 & 0 \\ 0 & 2 & 1 & 1 \\ 1 & 0 & 1 & 0 \end{bmatrix}$$



[8]

Q8) a) Define the terms : Subset and Finite set. [8]

If $A = \{1, 2, 3, 4\}$, $B = \{3, 4, 5, 6\}$, $C = \{4, 5, 6, 7, 8\}$ and universal set $X = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ then verify the following :

- i) $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$
- ii) $(A \cap B)' = A' \cup B'$
- iii) $n(A \cup B) = n(A) + n(B) - n(A \cap B)$

b) Define : Square matrix and Identify, Matrix, If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ then show that $A^2 - 5A - 2I = 0$, Where I is unit matrix. [8]

