

B.C.A. – Ist Year
SEM – II
Previous Year
Question Papers
Academic Year:
(2015-16 to 2017-18)



Please Note: This set has been prepared based on the papers received to us from the Examination Cell.



Seat No.	
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B.C.A. (Part - I) (Semester - II) Examination, 2013**COMPUTER****Paper No. 202 : Data Structure Using 'C'****Sub. Code : 55812****Day and Date : Monday, 06 - 05 - 2013****Total Marks : 100****Time : 11.00 a.m. to 2.00 p.m.**

- Instructions :**
- 1) Each question carries 20 marks.
 - 2) Solve any Four questions from Q.1 to Q.7.
 - 3) Q.8 is compulsory.

- Q1) a)** What is an array? Explain different types of the array. [10]
b) Explain any one sorting method with example. [10]
- Q2) a)** Define stack and Explain different operations performed on it. [10]
b) Write an algorithm for binary search. [10]
- Q3) a)** What is a queue? Explain different types of queue in detail. [10]
b) Convert following infix expressions into equivalent postfix and prefix expressions. [10]
i) $a + b * (c - d)/e$
ii) $a \% b * (x + y + z)$
- Q4) a)** List and explain operations performed on linked list. [10]
b) Write a program to search for given number in an array. [10]
- Q5) a)** What is tree traversal? Discuss the different types of traversal. [10]
b) Write a program to sort given 'n' numbers in a ascending order. [10]
- Q6) a)** Explain the different types of linked list with neat diagram. [10]
b) Write a program to implement stack. [10]

P.T.O.

- Q7) a) Explain concept of abstract data type in detail.
- b) Discuss tree terminology in detail.

[10]

[10]

Q8) Attempt any four questions form the following.

[20]

- a) Explain multi dimensional array.
- b) Write different searching applications.
- c) What are the different drawbacks of sequential storage?
- d) . What are the advantages of linked list over array?
- e) Write a program to find number of words available in a supplied string.
- f) Write the different applications of queue.



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B.C.A. (Part - I) (Semester - II) Examination, 2013

PRINCIPLES OF MANAGEMENT

Sub. Code : 55815

Day and Date : Friday, 10 - 05 - 2013

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



Total Marks : 100

- Instructions :**
- 1) Q.No. 8 is compulsory.
 - 2) Attempt any 4 questions from Q.No. 1 to Q.No. 7.
 - 3) All questions carry equal marks.

- Q1) a)** Define management. Why management is important in today's Globe? [10]
b) Discuss the various functions of management. [10]
- Q2) a)** Explain the role of a manager in an organisation. [10]
b) What do you mean by planning? State different types of planning. [10]
- Q3) a)** What is organising? State various principles of organization. [10]
b) Explain various types of organization. [10]
- Q4) a)** Define staffing. Explain characteristics of staffing. [10]
b) Define motivation. How motivation is important in an organization. [10]
- Q5) a)** Compare training and development. [10]
b) Explain need - hierarchy theory of motivation. [10]
- Q6) a)** What are the functions of leadership? [10]
b) What is leadership style? State different types of leadership style. [10]
- Q7) a)** What is controlling? Explain types of control [10]
b) Explain the various steps in control process. [10]

P.T.O.

Q8) Write short notes (on any four)

- a) Management as a profession.
- b) Formal and Informal organization.
- c) Management's connection to other field of study.
- d) Recruitment and selection.
- e) Team Leadership.
- f) Theory X and Y.



Seat
No.

B.C.A. (Commerce Faculty) (Part - I) (Semester - II) Examination, 2013
BUSINESS MATHEMATICS (Paper no.-203)

Sub. Code : 55813

Day and Date : Wednesday, 8 - 05 - 2013

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



Total Marks : 100

- Instructions : 1) Question No. 8 is compulsory.
 2) Attempt any four questions from remaining seven questions.
 3) Figures to the right indicates full marks.
 4) Use of non - programmable calculator is allowed.

- Q1) a) i) If A & X are true statements and B is false statement then determine the truth value of $(\sim A \vee X) \rightarrow (X \rightarrow B)$. [5]
 ii) Show that : $\sim(p \vee q) \equiv \sim p \wedge \sim q$ [5]
 b) i) Check whether the following statement is tautology or contradiction $(\sim p \wedge q) \wedge (q \rightarrow p)$ [5]
 ii) Write the converse, inverse and contra positive of following conditional statement" if you are good in mathematics then you are good in physics". [5]
- Q2) a) i) Draw a Venn - diagram for three non empty sets A, B, & C with the property $C \subset A, A \cap B \neq \phi, B \cap C = \phi, B \not\subset A$ [5]
 ii) If $A = \{a, b\}, B = \{x, y\}, C = \{x, z\}$ then find : [5]
 1) $A \times (B \cup C)$
 2) $A \cup (B - C)$
- b) i) Using mathematical induction, prove that ' $2^{3n} - 1$ is divisible by 7'. [5]
- ii) Find the value of $\begin{vmatrix} 2 & 3 & -1 \\ 3 & 0 & 1 \\ -1 & 0 & 4 \end{vmatrix}$ [5]

P.T.O.

Q3) a) i) In how many ways 3 boys & 4 girls can be arranged in a row, so that all 4 girls are together. [5]

ii) Prove that : ${}^n C_r = {}^n C_{n-r}$. [5]

b) i) Find the coefficient of x^7 in the expansion of $\left(x^2 + \frac{1}{x}\right)^{11}$ [5]

ii) Expand : $\left[x + \frac{1}{x}\right]^6$. [5]

Q4) a) i) Solve the following equations using Cramer's rule. [5]

$$x + y + z = 4$$

$$2x - y + z = 1$$

$$x - y + z = 0$$

ii) Using properties of determinants prove that [5]

$$\begin{vmatrix} 1-x & x & x^2 \\ 1-y & y & y^2 \\ 1-z & z & z^2 \end{vmatrix} = (x-y)(y-z)(z-x)$$

b) i) If $A = \begin{bmatrix} 2 & 1 & -2 \\ 3 & 0 & 1 \\ 1 & 2 & 3 \end{bmatrix}$, $B = \begin{bmatrix} 1 & -1 & 0 \\ 3 & 2 & 1 \\ -2 & 1 & 3 \end{bmatrix}$ then, Find $3A^C - 2B^C$. [5]

ii) Express the following matrix as sum of symmetric and skew -

$$\text{symmetric matrices } A = \begin{bmatrix} -1 & 7 & 1 \\ 2 & 3 & 4 \\ 5 & 0 & 5 \end{bmatrix} \quad [5]$$

Q5) a) i) Check whether the following matrix is singular or not [5]

$$A = \begin{bmatrix} 1 & 0 & 6 \\ 7 & 2 & 5 \\ 3 & 4 & 6 \end{bmatrix}$$



ii) Find x, y if $\left\{ 3 \begin{bmatrix} 4 & 0 & -1 \\ 2 & 5 & -1 \end{bmatrix} - 2 \begin{bmatrix} 5 & 1 & 2 \\ 0 & 2 & 3 \end{bmatrix} \right\} \begin{bmatrix} 2 \\ 0 \\ 3 \end{bmatrix} = \begin{bmatrix} x \\ 0 \\ y \end{bmatrix}$. [5]

b) i) If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ then show that $A^2 - 5A - 2I = 0$. [5]

ii) If $A = \begin{bmatrix} 6 & 3 \\ 3 & -3 \end{bmatrix}$, $B = \begin{bmatrix} -2 & 3 \\ 2 & 2 \end{bmatrix}$, find matrix X such that $3X - 2A + 3B = 0$. [5]

Q6) a) i) Solve the following system of equations by matrix method. [5]

$$x + y + z = 2$$

$$2x + 2y - z = 1$$

$$3x + 4y + z = 9$$

ii) Show that $f(x) = 2x^3 - 9x^2 + 12x + 5$ is maximum at $x = 1$ and find its maximum value at $x = 1$. [5]

b) i) Find the value of $\int_0^1 \frac{dx}{1+x^2}$ using Trapezoidal rule taking $h = 0.2$. [5]

ii) Find the value of $\int_0^1 \frac{x^2}{1+x^3} dx$ using Simpson's $1/3^{\text{rd}}$ rule taking $h = 0.25$. [5]

Q7) a) i) Evaluate $\lim_{x \rightarrow 2} \frac{\sqrt{2x^2 + 1}}{x + \sqrt{x^2 + 5}}$. [5]

ii) If $f(x) = \frac{ax + b}{bx - a}$ prove that $f(f(x)) = x$. [5]

b) i) Differentiate $y = \frac{3x^2 + 2x + 7}{x^3 - 3}$ with respect to x . [5]

ii) If $x = \frac{t^3}{3} - 3t^2 + 5t$ then find $\frac{dx}{dt}$ and $\frac{d^2x}{dt^2}$ at $t = 2$. [5]

Q8) Write short note on any four of the following : [20]

- Test for Maxima and minima.
- Normal forms in logic.
- Binomial theorem.
- Types of Matrices.
- Complement of a set.
- Rules of numerical integration.



Seat No.	
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B.C.A. (Part - I) (Semester - II) Examination, 2013

DBMS through MS - Access

Sub. Code : 55811

Day and Date : Tuesday, 07 - 05 - 2013

Total Marks : 100

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

Instructions : 1) Solve any 5 questions.

2) Figures to the right indicate full marks.



- Q1)** a) What is DBMS? Explain the advantages and disadvantages of DBMS. [10]
 b) What is Data independence? Explain with suitable example. [10]
- Q2)** a) Compare traditional file management system with DBMS. [10]
 b) State and explain types of database systems. [10]
- Q3)** a) Define and explain schema and subschema with example. [10]
 b) Explain file organization in DBMS. [10]
- Q4)** a) What is meant by data model? Explain different types of data models available in DBMS? [14]
 b) Define Primary key, Candidate key and foreign key. [6]
- Q5)** a) What is normalization? Explain different normal forms with examples. [14]
 b) Draw ER diagram for railway reservation system. [6]
- Q6)** a) Explain types of relationships with examples. [10]
 b) What is SQL? Explain data types in SQL. [10]

- Q7) a) Following is the description of a system and its information requirements. Identify the important entities and relations. Also draw E-R diagram using standard methods and convert it into relational database schema.
A store has different counters managed by different employees. A counter has different items but no two counters have common items. Customers buy from different counters. Only once in a month performance of persons managing counters is evaluated in terms of sales. Items are also reviewed slow moving items are identified. [10]
- b) Explain following commands with syntax and example. [10]
- Create table.
 - Desc
 - Alter table
 - Drop table

Q8) Write short notes on. (any four)

[4 × 5 = 20]

- DML commands
- Database security
- Functions of DBMS
- Data dictionary
- Data abstraction.





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B.C.A. (Part - I) (Semester - II) Examination, November - 2014

SOFTWARE PACKAGE: MS-Office (Paper - 201) (Revised)

Sub. Code : 59576

Day and Date : Wednesday, 05 - 11 - 2014

Total Marks : 80

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

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

- Q1) Describe in detail the components of MS-Office. [16]**
- Q2) a) What are the types of software packages. [8]**
b) Give the features of MS-word. [8]
- Q3) Explain standard and formatting toolbars with icons of MS-Word. [16]**
- Q4) a) Explain different tools in excel. [8]**
b) Explain the drawing tools in MS-Word. [8]
- Q5) a) Explain in brief different types of effects in power point. [8]**
b) Explain mathematical & string functions used in excel. [8]
- Q6) What is chart? Discuss the types of charts. [16]**
- Q7) a) How to format any document file? [8]**
b) Explain how to create any presentation in MS-PowerPoint. [8]
- Q8) Write short notes on (Any four) : [16]**
- a) Track changes in word.
 - b) Why Validation is necessary in Excel.
 - c) Consolidation.
 - d) Security option in word.
 - e) Spreadsheet.



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B.C.A. (Commerce) (Part - I) (Semester - II) Examination, November - 2014

BANK MANAGEMENT

Sub. Code : 59578

Day and Date : Saturday, 8 - 11 - 2014

Total Marks : 80

Time : 11. 00 a.m. to 2.00 p.m.

Instructions : 1) *All questions carry equal marks.*

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

3) *Question No. 8 is compulsory.*



Q1) Explain the concept of Bank. Discuss the importance and primary functions of a Bank. [16]

Q2) a) What is customer centric v/s Business centric bank management? [8]

b) Explain important provisions of Banking Regulation Act 1949. [8]

Q3) Define Liquidity. Explain different policies of Liquidity. [16]

Q4) What is mean by Leasing and Hire Purchasing? Discuss the importance and limitations of Leasing and Hire Purchasing. [16]

Q5) What is Investment Policy of a Bank? What are the things to be considered in framing it. [16]

Q6) What is Portfolio Management? Explain the need and types of portfolio management. [16]

P.T.O.

Q7) Explain the determinants of Bank profits. Write about capital to Risk Assets Ratio (CRAR) and management of Reserve Risk Management. [16]

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

- a) Bank Services
- b) Role of Branch Manager
- c) Non performing Assets
- d) E - Banking



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B.C.A. (Part - I) (Semester - II) Examination November - 2014
FINANCIAL ACCOUNTING WITH TALLY (Paper - 204) (New)

Sub. Code : 59579

Day and Date : Monday, 10 - 11 - 2014

Total Marks : 80

Time : 11.00 a.m. to 2.00 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 20 marks.**



Q1) The Star Traders Ltd., Nasik has an authorized an subscribed capital of Rs 80,00,000 divided into Equity Shares of Rs. 100 each. From the following balances which appear in the books of the company as on 31st March 2014. Prepare: i) Profit and Loss Account for year ended 31st March 2014 and ii) Balance Sheet as on that date.

Liabilities	Rs.	Assets	Rs.
Land & Building	3,40,000	Share Capital	8,00,000
Plant & Machinery	6,60,000	Sundry Creditors	1,20,000
Office Equipment	40,000	Reserve Fund	60,000
Preliminary Expenses	20,000	Profit & Loss Account	
Furniture	29,000	(1-4-2013)	35,400
Calls in Arrears	6,000	Return outward	20,000
Cash in hand	2,000	Sales	12,30,000
5 % Govt. Bonds(Tax free) (face value Rs 40,000)	36,000	6% debentures of Rs. 100 each	4,00,000
Bills Receivable	58,000		
Good Will	36,000		
Motor Vehicle	40,000		
Sundry Debtors	83,000		

Interim Dividend	18,000	Bank Over Draft (Secured)	50,000
Repairs	3,000		
Purchases	9,60,000		
Returns Inward	28,000		
Advertisement	10,000		
Audit Fees	4,000		
Carriage Outwards	15,000		
Wages	92,000		
Insurance	20,000		
Stock (1-4-2013)	1,90,000		
General Expenses	17,000		
Debentures interest (Less Tax at 30%)	8,400		
	27,15,400		27,15,400



You are required to consider following adjustments:

- Stock as on 31st March 2014 Rs. 1,80,000
- Create Reserve for Bad Debts at 5% on Sundry Debtors
- Provide depreciation: Plant & Machinery @ 5% ; Furniture @ 10% ; Office Equipments @ 15% ; Motor Vehicles @20%.
- Prepaid insurance Rs.2,000
- Reserve fund to be increased by Rs.10,000
- Director's declared an interim dividend for 6 months ending September 30,2013 @ 3%
- Wages outstanding Rs. 3,000
- Interest on debenture for 6 months

[16]

Q2) Given below receipts and payments account of Raju Sport Club for the year ending 31st Dec. 2009.

Receipts and Payments Account

Dr.			Cr.
Receipt	Rs.	Payments	Rs.
To Balance	1,500	By Salary	1,200
To Entrance Fees	1,000	By General Expenses	350
To Subscriptions	4,000	By Insurance	50
To Donations	3,000	By Sport Material	3,500
To Interest on Investments	150	By Investments	3,000
To Sundry Receipts	300	By Bank Deposits	1,800
To Interest on Bank Deposits	90	By Balance	140
	10,040		10,040

Other information:

- a) Capitalised Donations and Entrance fees.
- b) Subscription Rs. 500 is outstanding on 31st December 2009 and subscription Rs.150 is received in advance.
- c) Insurance is prepaid up to 31st March 2010 Rs. 15
- d) Other assets on 1-1-2009 were club premises Rs. 15,000, Sports material Rs. 2000
- e) Depreciation club premises by 2.5% and sport material by 5%. Prepare Income and Expenditure Accounts for the year ending 31st December 2009 and Balance Sheet as on that date. [16]

Q3) Explain the classification of Debenture and types of share capital. [16]

- Q4)** Describe the vertical format of Balance Sheet. [16]
- Q5)** Write different steps to create a Company using Tally. Also explain the various features of Tally. [16]
- Q6)** Explain the following: [16]
- Creation and Alteration of Voucher.
 - TDS Reports.
- Q7)** Describe different types of Vouchers. [16]
- Q8)** Write short answer (Any Two): [16]
- Groups and Ledgers using Tally.
 - Interest Computation.
 - TCS Reports.
 - Vertical Format of Profit & Loss Account.



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B.C.A. (Part - I) (Semester - II) Examination, November - 2014

PRINCIPLES OF MARKETING

Sub. Code : 59580

Day and Date : Tuesday, 11 - 11- 2014

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. 1 to Q No. 7.



- Q1) a) Explain in brief features of marketing. [8]**
 b) Describe in brief any four core concepts of marketing. [8]
- Q2) a) Explain in brief Holistic and Green marketing. [8]**
 b) Explain the Demographic and Natural Environment of marketing. [8]
- Q3) a) Explain the price and promotion element of marketing mix. [8]**
 b) Explain in brief characteristics of services. [8]
- Q4) a) Explain the concept outsourcing of IT Services. [8]**
 b) Explain the meaning and importance of marketing research. [8]
- Q5) a) State the components in marketing Information system. [8]**
 b) Explain the concepts and techniques of E-marketing. [8]

P.T.O.

- Q6) a) State in brief significance of E-marketing in 21st century. [8]
b) State in brief significance of consumer behaviour. [8]
- Q7) a) Explain in brief factors affecting consumer behaviour. [8]
b) State the importance of market segmentation. [8]
- Q8) Write short notes (any four) [16]
- a) Marketing in 21st century
 - b) Product element of marketing mix
 - c) Problems in service marketing
 - d) Steps in Marketing research
 - e) Bases of market segmentation
 - f) Concept of market segmentation



11 Programming in C Part - II
27 Lab course Based on Paper-201,204
37 Lab course Based on Paper 202

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B. C. A. (Part - I) (Semester - I) Examination, October - 2014

COMPUTER (Revised) (Paper - 102)

Programming in 'C' Part - I

Sub. Code : 59570

Day and Date : Thursday, 30- 10- 2014

Total Marks : 80

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

- Instructions :
- 1) Solve any Four questions from Q1 to Q7.
 - 2) Q8 is compulsory.
 - 3) Each question carries 16 marks.



- Q1)** a) Explain different symbols of Flowchart. [8]
- b) Write an Algorithm which accepts a number and prints sum of digit of given number. [8]
- Q2)** a) Explain while loop with its syntax. [8]
- b) Explain data types in C. [8]
- Q3)** Write a program which accept order of two matrices along with values and display Addition of two matrices. [16]
- Q4)** a) Explain structure of C Program. [8]
- b) Write a program which accepts a number and display given number is Armstrong or Not. [8]

- Q5) a) Explain strlen () function with Example. [8]
b) What is a constant ? Explain it with its types. [8]
- Q6) a) Explain bitwise operator in C. [8]
b) Explain History of C language. [8]
- Q7) a) Explain printf () function with its syntax. [8]
b) Explain concept coding and running the program. [8]
- Q8) Write a short note on (Any four) : [16]
a) break statement
b) Character Array
c) Logical errors.
d) for Loop
e) Algorithm
f) If statement.



4, 3, 2, 4, 3, 3, 2, ● ● ●

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Total No. of Pages : 2

B.C.A. (Part - I) (Semester - II) Examination, April - 2015
PRINCIPLES OF MARKETING
(Faculty of Commerce)
Sub. Code : 59580

Day and Date : Friday, 17 - 04 - 2015

Total Marks : 80

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

- Instructions :
- 1) Question No. 8 is compulsory.
 - 2) Solve any four questions 5 from Q. No. 1 to Q. No. 7.

- Q1)** a) State the significance of marketing. [8]
b) State the marketing in 21st century. [8]
- Q2)** a) Explain in brief any four core concepts of marketing. [8]
b) Explain the financial and social environment of marketing. [8]
- Q3)** a) Explain the product and price element of marketing mix. [8]
b) Explain in brief characteristics of services. [8]
- Q4)** a) Explain in brief problems in services marketing. [8]
b) Explain the meaning and importance of marketing research. [8]
- Q5)** a) State in brief concept of marketing Information System. [8]
b) Describe the techniques of E - Marketing. [8]
- Q6)** a) State in brief significance of E-Marketing. [8]
b) Explain in brief significance of consumer behaviour. [8]

P.T.O.

- Q7) a) Explain in brief factors affecting consumer behaviour. [8]
b) State the importance of market segmentation. [8]

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

- a) Elements in Micro - Environment.
- b) Process element of marketing mix.
- c) Outsourcing of IT services.
- d) Steps in marketing research process.
- e) Bases of market segmentation.
- f) Concept of consumer behaviour.



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Total No. of Pages : 2

**B.C.A. (Part - I) (Semester - II) (Commerce Faculty) Examination,
April - 2015**

SOFTWARE PACKAGES (Paper No. - 201) (Revised)

Sub. Code : 59576

Day and Date : Saturday, 11 - 04 - 2015

Total Marks : 80

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

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



- Q1) Define MS - Office? Explain the features of MS - Office. [16]**
- Q2) a) What is merging? How to create mail merge in MS - Word? [8]**
b) What is Cell? Explain Cell formatting in MS - Excel. [8]
- Q3) Explain various toolbars in MS - Word. [16]**
- Q4) What is MS - Excel? Explain in brief the elements of MS - Excel Window. [16]**
- Q5) Explain the different functions used in MS - Excel. [16]**
- Q6) a) Describe "How to format the spreadsheet in MS - Excel?" [8]**
b) Write down the required steps for performing following operations in MS - Power Point. [8]
- i) Inserting pictures on the slide.
 - ii) Adding slide background.
 - iii) Inserting movies on the slide.
 - iv) Inserting tables on the slide.

P.T.O.

Q7) Explain how to add different effects in MS - Power Point?

[16]

Q8) Write a short note on (Any Four) :

[16]

- a) Tables in MS - Word.
- b) Page setup in MS - Word.
- c) Presentation Views in MS - Power Point.
- d) Features of MS - Power Point.
- e) Slide Layouts.
- f) Arranging Objects on slide.



Seat No.	
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B.C.A. (Part - I) (Semester - II) Examination, April - 2015
Paper - 202 : PROGRAMMING IN 'C' (Part - II) (New)
Sub. Code : 59577

Day and Date : Monday, 13 - 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)** What is structure? How do define and access different members of structure? [8]
- b)** Write a C program using structure to store book information (name, author and price). [8]
- Q2) a)** What is function? Explain how main() is differ from other user defined functions? [8]
- b)** Explain the difference between calling function and called function. [8]
- Q3) a)** Explain pointer arithmetic with example. [8]
- b)** State and explain file mode in 'C' language. [8]
- Q4) a)** What is pointer? How they are declared? Give its example. [8]
- b)** Explain static storage class with suitable example. [8]
- Q5) a)** What is union? Explain with example. [8]
- b)** Write a C program using union to store information of five employee as (name, designation and salary). [8]

P.T.O.

Q6) Explain Call by value and Call by reference.

Q7) a) Explain getw(), putw() getc() and putc() functions in C language. [8]

b) Write a C program to create a text file - data.txt which contains company information with read and write mode. [8]

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

a) Recursive functions.

b) File modes.

c) Address operator.

d) getc() and putc().

e) Unions.

f) Pointer to function.



Seat No.	
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B.C.A. (Commerce) (Part - I) (Semester - II) Examination, April - 2015

BANK MANAGEMENT

Sub. Code : 59578

Day and Date : Wednesday, 15 - 04 - 2015

Total Marks : 80

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

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



- Q1) Define Bank. Describe important functions performed by a Bank. [16]**
- Q2) What is Bank management? Explain customer centric V/s Business centeric management. [16]**
- Q3) What is liquidity management? Explain different liquidity policies. [16]**
- Q4) Why do assets become Non-performing? What are the measures to prevent assets becoming Non - performing. [16]**
- Q5) What is Investment portfolio management? Discuss the principles that guide a bank in Investing its funds. [16]**
- Q6) What is the impact of Information Technology on banking sector? Explain E. Banking, E. Money and Tele - Money [16]**
- Q7) Define MIS and Discuss the need and importance of MIS. [16]**

Q8) Short notes (any two) :

- a) Role of director.
- b) Concept of leasing and Hire Purchase.
- c) Management of Reserves Risk Management.
- d) Banking sector reforms.



Seat
No.

B.C.A. (Part - I) (Semester - II) Examination, April - 2015
Paper - 204 : FINANCIAL ACCOUNTING WITH TALLY (New)

Sub. Code : 59579

Day and Date : Thursday, 16 - 04 - 2015

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 20 marks.**



Total Marks : 80

Q1) The following balances were extracted from the books of 'B Kulkarni Ltd.,
For the year ended 31st March 2014. [16]

Particular	Rs.
Building	6,00,000
Furniture	60,000
Motor Vehicle	60,000
Equity Shares of Companies	4,00,000
Stock in trade at cost	4,00,000
Sundry Debtors, unsecured considered goods	2,80,000
Cash at bank	1,72,000
Advance against construction of building	1,30,000
Share capital	
1000 equity shares of Rs 100 each	10,00,000
Sundry Creditors	3,50,000
Profit and Loss Account (Credit)	20,000
Gross Profit	10,00,000
Dividend received on investments	10,000
Salaries and wages	2,20,000
Direct fees	8,000
Electricity charges	25,000
Rates, taxes and insurance	10,000
Auditor fees	15,000

Prepare the profit and Loss Account of the company for the year ended 31st March 2014 and the Balance Sheet as on that date after the following adjustment:

P.T.O.

- Provide 10% depreciation per annum on all fixed assets.
- Stock has been revalued as Rs 3,60,000 This has not yet been considered.
- Debts more than 6 months are Rs. 80,000
- Provide 50% for taxation.



Q2) The treasurers of Samrat Club, Kolhapur prepared the following Receipt and Payments Account for the year ended 31st March 2013.

Receipt and Payments Account

Dr		Cr	
Receipt	Rs	Payments	Rs
To Cash-in-hand(1-4-2012)	150	By Salaries	3000
To Cash-in-bank (1-4-2012)	1670	By Repairs	1400
To subscription	5600	By Purchase of Second hand motor car	9500
To Donations	7000	By Sundry Expenses	500
To Social Events	3000	By Postage and stationary	500
		By Insurance	200
		By Social events expenses	1600
		By Cash-in-hand (31-3-2013)	220
		By Cash-in-Bank (31-3-2013)	500
	17420		17420

You are given the following additional information :

- Subscription Rs. 1400 is outstanding on 31st March 2013 and subscription of Rs. 400 are received in advance.
- Rs. 1000 and Rs. 600 is to be provided for depreciation on leasehold premises and equipments respectively.
- As on 31st March 2012 the book values of fixed assets were leasehold premises Rs. 24000 and equipments Rs. 8000.

- iv) Insurance prepaid up to 30th June 2013 Rs 50.
- v) Capitalise donations.

You are required to prepare :

- a) A statement showing capital fund of the Club as on 1-4-2012.
- b) The Income and Expenditure Account for the year ended 31st March 2013.
- c) The balance sheet as on 31st March 2013.

[16]

Q3) Explain the features of tally and also various steps for creation of company. [16]

Q4) Explain the concept of VAT and write different benefits of VAT. [16]

Q5) Explain the voucher entry with bill wise details Interest computation using Tally. [16]

Q6) Explain the following :

- a) Classification of Debenture.
- b) Types of Share Capital.



[16]

Q7) Explain the report of Profit and Loss Account and Balance Sheet. [16]

Q8) Write short answer (Any Two) :

[16]

- a) Groups and Ledgers.
- b) TCS reports.
- c) Types of shares.
- d) Gate way of Tally.





Seat No.	
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**B.C.A. (Part - I) (Semester - II) (Commerce Faculty) Examination,
October - 2015**

SOFTWARE PACKAGES (Paper - 201)

Sub. Code : 59576

Day and Date : Monday, 26 - 10 - 2015

Total Marks : 80

Time : 11.00 a.m. to 02.00 p.m.

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

Q1) Define MS - Office? Explain the different features of MS - Office. [16]

Q2) a) Explain "How to format the document in MS - Word?" [8]

b) Explain "How MS - PowerPoint is useful for any organization?" [8]

Q3) a) Explain in brief : [8]

i) Filtering the data in MS - Excel.

ii) Inserting the formulas.

b) Describe the steps for following operations in MS - PowerPoint. [8]

i) Creating a new presentation

ii) Opening an existing presentation

iii) Saving presentation

iv) Closing Presentation

- Q4) a) What is word processing? Explain the important features of MS - Word. [8]
- b) Write down the required steps for performing following operations in MS - Excel. [8]
- Inserting and deleting data in cell
 - Inserting and deleting rows
 - Inserting and deleting columns
 - Inserting and deleting sheets
- Q5) a) How to create table in MS - Word? [8]
- b) How to add audio and video in MS - PowerPoint? [8]
- Q6) What do you mean by MS - Excel? Explain in brief the elements of MS - Excel Window. [16]
- Q7) a) Write in detail procedure to create mail merge in MS - Word. [8]
- b) Explain different functions used in MS - Excel. [8]
- Q8) Write a short note on (Any Four) : [16]
- Track Changes in MS - Word.
 - Printing document in MS - Word.
 - Formatting Charts in MS - Excel.
 - Setting formula in MS - Excel.
 - Slide Show.
 - Arranging Objects on Slide.



Seat No.	
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B.C.A. (Part - I) (Semester - II) Examination, October - 2015

PROGRAMMING IN 'C' (Part - II) (Paper - 202)

Sub. Code : 59577

Day and Date : Tuesday, 27 - 10 - 2015

Total Marks : 80

Time : 11.00 a.m. to 02.00 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) a) What is structure? Explain declaration and initialization of structure. [8]**
- b) Explain typedef keyword with suitable example. [8]**
- Q2) a) What is pointer? How pointers are declared and initialized. [8]**
- b) What is union? Explain with suitable example. [8]**
- Q3) a) Write a program in 'C' for sum of two numbers by using function. [8]**
- b) Illustrate with suitable example array within structure. [8]**
- Q4) a) Explain concept of dynamic memory allocation in 'C'. [8]**
- b) Explain following file function. [8]**
- | | |
|-----------------|---------------|
| i) ftell () | ii) fseek () |
| iii) rewind () | iv) getw () |

- Q5) a) Explain storage classes used in 'C' with example. [8]
b) Explain structure within structure with example. [8]
- Q6) Write a programme a in 'C' to create file, insert, delete & show records in it. [16]
- Q7) a) How to define and use array of pointer. [8]
b) Write a program in 'C' to explain use of enum data type. [8]
- Q8) Attempt any FOUR questions from the following. [16]
- a) Explain Recursive function in 'C'.
 - b) Scope of variable in 'C'.
 - c) Explain Array of structure with example.
 - d) Write Advantages of array.
 - e) Binary file and text files.
 - f) function call by value.



Seat No.	
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B.C.A. (Part - I) (Faculty of commerce) (Semester - II)
Examination, October - 2015

FINANCIAL ACCOUNTING WITH TALLY

Sub. Code : 59579

Day and Date : Thursday, 29 - 10 - 2015

Total Marks : 80

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

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

Q1) Rohit company ltd. was registered with capital of Rs. 2,00,000 divided into 2,000 equity shares. The trial balance of the co. as on 31 - 3 - 2011 was as follows:

Trial Balance

Particulars	Dr. ₹	Cr. ₹
Issued share capital	-	1,00,000
Motor car	37,000	-
Sundry Debtors	9,600	-
Salaries	15,000	-
Bank Interest	400	-
Rent Received	-	3,500
Travelling Expenses	4,000	-
Machinery	80,000	-
Sales	-	1,05,000
Building	50,000	-
Discount Allowed	1,500	-



P.T.O.

Sundry creditors	-	16,800
Wages	8,000	-
Bank overdraft	-	12,200
Stock on 1.4.2010	7,000	-
Profit & loss Appropriation A/C	-	22,500
Purchases	30,000	-
Carriage	2,000	-
Cash in hand & at Bank	1,000	-
Printing & stationery	2,000	-
Repairs & Renewals	1,500	-
Directors Remuneration	2,500	-
Audit fees	500	-
Calls in Arrears	3,000	-
Interim Dividends	5,000	-
	2,60,000	2,60,000

You are required to prepare

- a) Profit & loss account for the year ended 31st March, 2011 and
- b) Vertical Balance sheet as on that date after considering the following-
 - i) Stock on 31.3.2011 is ₹ 6000
 - ii) Create R.D.D. at 5% on debtors
 - iii) Depreciate machinery by ₹ 2000, Building by ₹ 7000 and motor car by ₹ 620.
 - iv) Outstanding wages ₹ 1000
 - v) Directors declared a final dividend at 20% on paid up capital. [16]



Q2) Lalit kala kendra Mumbai gives you the following information, for the year ended on 31.03.2013. You are required to prepare -

- Income & expenditure A/C for the year ending on 31-3-2013,
- Balance sheet as on 31-03-2013.

Receipt & payment A/C for the year ending 31.03.2013

Receipts	Amt. ₹	Payments	Amt. ₹
To Balance b/d		By stationery	500
Cash in hand	1,300	By furniture purchased	5000
Cash at Bank	9,500	By Investments	10,000
To locker rent	500	By expenses of Drama	3350
To Entrance fees	1,900	By postage & telegram	250
To sale of old newspapers	150	By magazines & newspapers	400
To receipt from Drama	7,850	By salaries	2200
To legacies	11,000	By Balance c/d	
To miscellaneous receipts	800	Cash in hand	300
		Cash at Bank	11,000
	33,000		33,000

Additional Information

- Capital fund on 1 - 04 - 2012 was ₹ 10,800
- Legacies are to be capitalised
- Outstanding salary ₹ 300
- 50% of entrance fees are to be capitalised.



[16]

Q3) What is 'Tally'? State the important features of tally. [16]

Q4) What is debenture? Explain the classification of Debentures. [16]

Q5) What do you mean by 'Not for profit concern'? Distinction between receipt & payment A/C and income & expenditure A/C. [16]

Q6) Write a note on Generating Accounting Reports. [16]

- a) Profit & loss A/C Report
- b) Balancesheet Report

Q7) Explain the concept of grouping of accounts & ledgers under tally. [16]

Q8) Write short notes (Any two) [16]

- a) Interest computation
- b) Types of shares
- c) Capital expenditure & revenue expenditure
- d) TCS reports



Seat No.	
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B.C.A. (Part - I) (Semester - II) Examination, October - 2015
PRINCIPLES OF MARKETING
Sub. Code : 59580

Day and Date : Friday, 30 - 10 - 2015

Total Marks : 80

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

- Instructions: 1) Questions No. 8 is compulsory.
 2) Solve any four questions from Q.No. 1 to Q.No. 7.

- Q1)** a) Explain in brief features of marketing. [8]
 b) Describe in brief any four core concept of marketing. [8]
- Q2)** a) Explain the challenges and opportunities of marketing in 21st century. [8]
 b) Explain in brief holistic and green marketing. [8]
- Q3)** Explain different elements in micro and macro environment of marketing in details. [16]
- Q4)** Define marketing mix and explain 7P's of marketing mix in details. [16]
- Q5)** a) Explain in brief characteristics of services. [8]
 b) Explain different problems in service marketing. [8]
- Q6)** a) Explain the concept and techniques of E - Marketing. [8]
 b) Explain in brief factors affecting consumer behaviour. [8]



Q7) a) State the components in marketing information system. [8]

b) Explain different steps in marketing research process. [8]

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

a) -Importance of consumer behaviour

b) Importance of marketing segmentation

c) Outsourcing of I.T. service

d) Importance of marketing research

e) Modern marketing concept

f) Significance of marketing



Seat No.	
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**B.C.A.(Faculty of Commerce)(Part -I)(Semester -II)
(Revised)Examination, April - 2016
201:SOFTWARE PACKAGES
Sub. Code: 59576**

Day and Date : Wednesday, 20 - 04 - 2016
Time :3.00 p.m. to 6.00 p.m.

Total Marks :80

- Instructions :
- 1) Attempt any five questions.
 - 2) Each question carries equal marks.
 - 3) Figures to the right indicate full marks.



- Q1) What is MS - Office? Explain different components of MS - Office. [16]
- Q2) a) What is merging? How to create mail merge in MS - Word? [8]
b) What is cell? Explain cell formatting in MS - Excel. [8]
- Q3) What is MS-PowerPoint? Explain in brief the elements of MS-PowerPoint Window? [16]
- Q4) a) Explain in brief various types of effects in MS - PowerPoint. [8]
b) Explain Mathematical and string functions used in MS- Excel. [8]
- Q5) a) Explain different applications of MS-Word. [8]
b) What is chart? Explain different types of charts used in MS-Excel. [8]
- Q6) a) Give the procedure for printing any word file in detail. [8]
b) What is spreadsheet? Explain the applications of spreadsheet. [8]

P.T.O.

- Q7) a) Explain different slide layouts in MS - Power point. [8]
- b) How to insert various objects in MS-Word document? [8]
- Q8) Write a short notes on (any four) [16]
- Word completion in MS-Word.
 - Spell check in MS-Word.
 - Formula Auditing in MS-Excel.
 - Data and time functions in MS-Excel
 - Adding Header and footer
 - Printing Handouts in MS-PowerPoint



Seat
No.**B.C.A. (Faculty of Commerce) (Part - I) (Semester - II) (New)
Examination, April - 2016****PROGRAMMING IN 'C' (Part - II) (Paper - 202)****Sub. Code : 59577****Day and Date : Thursday, 21 - 04 - 2016****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)** Describe how pointers are defined and declared with suitable example?[8]
- b)** Explain getc(), putc(), getw() and putw() functions. [8]
- Q2) a)** What is structure? Explain how structures are defined with example. [8]
- b)** What is function recursion? Give its example. [8]
- Q3)** Explain various storage classes available in 'C' language. [16]
- Q4) a)** Explain different file opening modes with example. [8]
- b)** Explain Nested structure with example. [8]
- Q5) a)** How functions are declared? Give its example. [8]
- b)** Explain fprintf() and fscanf() function with example. [8]

P.T.O.

Q6) Describe various categories of a function with example.

[16]

Q7) Describe function call by value and call by reference with example.

[16]

Q8) Write short notes (Any Four):

[16]

- a) fopen() and fclose() file handling functions.
- b) Declaration of unions.
- c) Difference between call by value and call by reference.
- d) Pointer initialization.
- e) ftell() and fseek() functions.
- f) Array of structure.



Seat
No.

**B.C.A. (Faculty of Commerce) (Part - I) (Semester - II) (New)
Examination, April - 2016**

Paper - 204 : FINANCIAL ACCOUNTING WITH TALLY

Sub. Code : 59579

Day and Date : Saturday, 23 - 04 - 2016

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 QNo - 1 to QNo. -7.
 - 3) All questions carry equal marks.

Q1) A Company Ltd., was registered with capital of Rs. 2,00,000 divided in 2000 equity shares. The trial Balance of the company as on 31st March 2014 was as under. [16]

Trial Balance

Particular	Rs.	Rs.
Issued Share Capital		1,00,000
Motor	37,000	
Sundry Debtors	9,600	
Salary	15,000	
Bank Interest and Charges	400	
Rent Received		3,500
Travelling Expenses	4,000	
Machinery	80,000	
Sales		1,05,000



P.T.O.

Building	50,000	
Discount Allowed	1,500	
Sundry Creditors		16,800
Wages	8,000	
Bank Overdraft		12,200
Stock on 1-4-2013	7,000	
Profit & Loss appropriation account		22,500
Purchases	30,000	
Carriage	2,000	
Cash-in-hand and at Bank	1,000	
Printing & Stationery	2,000	
Repairs & Renewals	1,500	
Director's Remuneration	2,500	
Audit Fees	500	
Calls in arrears	3,000	
Interim Dividend	5,000	
	2,60,000	2,60,000

Adjustments:

- Stock on 31-3-2014 Rs. 6,000.
- Create reserve for Doubtful Debts an 5% on Debtors.
- Depreciation on Machinery by Rs. 2,000, Building Rs. 7,000 and Motor Rs. 620.
- Outstanding Wages were Rs. 1,000.
- Director declared a final dividend at 20% on paid up capital.

Prepare Trading Account, Profit & Loss Account, Profit & Loss Appropriation Account for the year ending 31-3-2014 and Balance Sheet on that date.

Q2) Given below is the Receipt and Payment Account of Nasik Sports Society for the year ended 31st December 2014. [16]

Receipts and Payments Account

Dr.			Cr.
Receipt	Rs.	Payments	Rs.
To Entrance Fees	20,000	By Salaries	20,000
To Donation for Building	2,50,000	By Gardening	3,000
To General Donation	30,000	By Building	2,00,000
To Subscriptions	40,000	By Printing & Stationary	2,000
To Interest on Investments	1,000	By Furniture	40,000
To Rent Received	9,000	By Telephone Charges	4,000
		By Sports Equipments	30,000
		By Insurance	1,000
		By Investments	40,000
		By Balance	10,000
	3,50,000		3,50,000

Additional Information:

- Subscriptions outstanding for the year 2014 Rs. 8,000.
- Subscriptions received in advance for the year 2015 Rs. 500.
- Salaries outstanding Rs. 1,000.
- Prepaid insurance Rs. 3,000
- Half of the entrance fees are to be capitalised.
- Depreciate Building by 4%, Furniture by 10% and Sports Equipments by 20%.

Prepare:

- Income and Expenditure Account for the year ended 31st December, 2014.
- Balance Sheet as on that date.



Q3) Explain the concept of Group and Ledger in Tally. [16]

Q4) Describe concept of VAT. What are the different benefits of VAT? [16]

Q5) What is Voucher? Explain different types of Vouchers. [16]

Q6) Describe various features of Tally and explain creation of company using Tally. [16]

Q7) Explain the following: [16]

- a) Report of Profit & Loss Account.
- b) Types of Shares Capital.

Q8) Write short answer (Any Two): [16]

- a) Types of Debentures.
- b) Order Processing.
- c) Gate way of Tally.
- d) Format of Income and Expenditure Account.





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Total No. of Pages : 2

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

Examination, April - 2016

PRINCIPLES OF MARKETING

Sub. Code:59580

Day and Date :Monday, 25 -04 -2016

Total Marks : 80

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

- Instructions :**
- 1) **Q. No. 8 is compulsory.**
 - 2) **Attempt any 4 Questions from Q. No. 1 to Q. No. 7.**
 - 3) **All questions carry equal marks.**

- Q1) Define marketing and explain the core concepts of marketing. [16]**
- Q2) What is marketing environment? Explain the elements in Macro and Micro environment. [16]**
- Q3) What is marketing mix? Explain the 7P's of marketing mix. [16]**
- Q4) What is Marketing Information System? Explain the components of Marketing Information System in detail. [16]**
- Q5) What is E - marketing? Explain the techniques and significance of e- marketing in 21st century. [16]**
- Q6) What is consumer Behaviour? Explain the factors affecting on consumer Behaviour. [16]**
- Q7) What is Market segmentation? Explain the importance and Bases of market segmentation. [16]**

P.T.O.

Q8) Write short Notes (any two):

- a) Marketing in 21st century - challenges.
- b) Problems in services marketing.
- c) Importance of Marketing Research.
- d) Outsourcing of I.T. services.



Seat No.	
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**B.C.A. (Commerce) (Part - I) (Semester - II) Examination,
April - 2016**

BANK MANAGEMENT (New)

Sub. Code : 59578

Day and Date : Friday, 22 - 04 - 2016

Total Marks : 80

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

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



- Q1) What is Banking Regulation Act, 1949? Explain important provisions under Banking Regulation Act, 1949. [16]**
- Q2) What is liquidity? Explain the liquidity policies that efficiently support daily operations. [16]**
- Q3) What is Investment policy? Explain important principles while formulating investment policy. [16]**
- Q4) What is Bank Management? Explain customer centric v/s Business centric management. [16]**
- Q5) Define MIS (Management Information System) and importance of MIS in Banking sector. [16]**
- Q6) What is Non Performing Asset (NPA). Explain various types of NPA. [16]**
- Q7) Explain Reforms in Indian Banking Sector. [16]**

P.T.O.

Q8) Write short notes on (any two) :

- a) Role of Director
- b) Leasing
- c) Capital adequacy
- d) Risk Management





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Total No. of Pages :2

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**B.C.A.(Commerce Faculty)(Part -I) (Semester -II)(Revised)
Examination, November - 2016
SOFTWARE PACKAGES(Paper-201)
Sub. Code: 59576**

**Day and Date : Friday, 11 - 11 - 2016
Time :10.30 a.m. to 1.30 p.m.**

Total Marks :80

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

Q1) What is software Packages? Explain types of Software Packages. [16]

Q2) Define MS-Word. Explain in brief the elements of MS- Word window. [16]

Q3) a) Explain how to set up the page layout in MS-Word. [8]

b) What is chart? Explain various types of charts used in MS-Excel. [8]

Q4) a) Explain the steps to insert header, footer and graphs on slides in MS-PowerPoint. [8]

b) How to sort and filter the data in MS-Excel? [8]

Q5) a) Explain different features of Ms-Excel. [8]

b) How to add graphics in MS-PowerPoint? [8]

Q6) a) Explain how to create table in MS-Word and describe how to format it? [8]

b) Write a brief note on computation of data in MS-Excel. [8]

P.T.O

- Q7) a) Explain various slide layouts used in MS-PowerPoint. [8]
b) Explain various animation and transition effects in the MS-PowerPoint. [8]
- Q8) Write a short note on (Any Four). [16]
a) Clip Arts
b) Word Art
c) Mathematical Functions
d) Presentation Styles in MS-PowerPoint
e) Cell Formatting
f) Arranging objects on slide



Seat No.	
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B.C.A. (Part - I) (Semester - II) (Revised)
Examination, November - 2016
PROGRAMMING IN 'C' (Part - II) (Paper - 202)
Sub. Code : 59577

Day and Date : Saturday, 12 - 11 - 2016

Total Marks : 80

Time : 10.30 a.m. to 1.30 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) a)** What is structure? Explain array of structure with example. [8]
b) Explain any two storage classes used in 'C' with example. [8]
- Q2) a)** What is union? Explain declaration and initialization of union. [8]
b) Explain recursive function with suitable example. [8]
- Q3) a)** Write a program in 'C' to accept integer number and print its reverse number. [8]
b) How array is different than pointer. [8]
- Q4) a)** What is enum? Explain with suitable example. [8]
b) How to define and use array of pointer? [8]
- Q5) a)** Explain concept of dynamic memory allocation in 'C'. [8]
b) Write program in 'C' to display prime no. between given range. (Range-userdefined.) [8]

P.T.O.

Q6) What is Function? Explain types of functions in 'C'.

[16]

Q7) a) Explain any Four file handling functions in 'C' with example. [8]

b) Write a program in 'C' for swapping of two numbers by using function. [8]

Q8) Attempt any FOUR questions from the following: [16]

a) Explain preprocessors 'C'.

b) Type def key word in 'C'.

c) Explain File opening modes in 'C'.

d) Write Advantages of user defined function in 'C'.

e) Static & dynamic variable.

f) Function call by refrance.



Seat
No.**B.C.A. (Commerce) (Part - I) (Semester - II) (New)****Examination, November - 2016****BANK MANAGEMENT****Sub. Code : 59578****Day and Date : Tuesday, 15 - 11 - 2016****Total Marks : 80****Time : 10.30 a.m. to 1.30 p.m.**

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



- Q1) What is Banking? Explain the Primary and Secondary functions of commercial Bank. [16]**
- Q2) What is leasing? Explain the steps and types of leasing. [16]**
- Q3) What is Non performing Asset (NPA)? What are the causes of an asset becoming non-performing? [16]**
- Q4) What is cyber law? Explain the importance of cyber law in banking sector. [16]**
- Q5) What is Risk Management? Explain the different types of Risk Management? [16]**
- Q6) Explain the concept of Bank Management. Describe the role of director & general manager. [16]**
- Q7) What is E-banking, E-money and Tele Banking. [16]**

P.T.O.

Q8) Write short notes (Any two)

- a) Customer centric.
- b) Monitoring of advances.
- c) Management Information system.
- d) Hire purchase.

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Seat No.	
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B.C.A. (Part - I) (Semester - II)
Examination, November - 2016
PRINCIPLES OF MARKETING (Paper - 205)
Sub. Code : 59580

Day and Date : Thursday, 17 -11 -2016

Total Marks : 80

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

- Instructions :**
- 1) Q. No. 8 is compulsory.
 - 2) Solve any four questions from Q. No. 1 to Q. No. 7.



- Q1) a)** Explain in brief any four core concepts of marketing. [8]
b) Explain challenges and opportunities of marketing in 21st century. [8]
- Q2)** Explain different elements in micro and macro environment of marketing in detail. [16]
- Q3)** Define marketing mix and explain 7P's of marketing mix. [16]
- Q4) a)** Explain the different components in marketing Information system. [8]
b) Explain the significance of E- marketing in 21st century. [8]
- Q5) a)** Explain different factors affecting consumer behaviour. [8]
b) State different bases of marketing segmentation. [8]

P.T.O.

- Q6) a) Explain different problems in service marketing. [8]
- b) Explain the concept outsourcing of I.T. Services. [8]
- Q7) a) Explain in brief Holistic and Green marketing. [8]
- b) Explain the meaning and importance of marketing research. [8]
- Q8) Write Short Notes on (Any four). [16]
- a) Features of marketing.
- b) Significance of consumer behaviour.
- c) Characteristics of service marketing.
- d) Concept of market segmentation.
- e) Techniques of e-marketing.



Seat No.	
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**B.C.A. (Faculty of Commerce) (Part - I) (Semester - II) (Revised)
Examination, April - 2017**

SOFTWARE PACKAGES (Paper - 201)

Sub. Code :59576

Day and Date : Tuesday, 18-04-2017

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.



- Q1) a) Explain the formatting toolbars in MS-word. [8]**
b) Write a procedure to add graphics & effects in MS-PowerPoint. [8]
- Q2) a) Explain software packages in detail. [8]**
b) Give the features of MS-PowerPoint. [8]
- Q3) a) Explain how MS-PowerPoint is useful for any organization? [8]**
b) What is mail-merge? [8]
- Q4) a) Explain entering and editing data in MS-Excel. [8]**
b) What is chart? Explain any one chart with diagram. [8]
- Q5) a) What is animation? Give its use in MS-PowerPoint. [8]**
b) What is word processing? Explain the overview window of MS- Word. [8]
- Q6) a) Give the procedure for printing any word file. [8]**
b) Write steps to create a presentation in MS-PowerPoint. [8]

P.T.O.

- Q7) a) Explain in detail entering and editing data in excel. [8]
- b) How to add audio & video effects in MS-PowerPoint. [8]

Q8) Write short notes on (Any 4): [16]

- a) Charts in MS-Excel.
- b) Search & replace.
- c) Error checking in MS-Excel.
- d) Consolidation in Excel.
- e) Arranging objects in MS-PowerPoint.



Seat No.	
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**B.C.A. (Faculty of Commerce) (Part - II) (Semester - IV)
Examination, May - 2017**

ORGANIZATIONAL BEHAVIOUR

Sub. Code :63404

Day and Date : Wednesday, 03-05-2017

Total Marks : 80

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

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



- Q1)** Discuss the contribution of different disciplines to organizational behaviour. [16]
- Q2)** What is meant by Attitudes? Explain the components of employee attitudes? [16]
- Q3)** What do you mean by personality? What are the different characters of people of personality A & B type? [16]
- Q4)** Discuss the various types of groups & their characteristics. [16]
- Q5)** What is Motivation? Discuss the Nature & Importance of motivation. [16]
- Q6)** What do you mean by stress? Explain the various sources of stress. [16]
- Q7)** Define Motivation. Explain McGregor's Theory X & Theory Y. [16]
- Q8)** Write short Notes (on Any four): [16]
- a) Concept of organizational Behaviour.
 - b) Johari Window
 - c) Effective team Works.
 - d) Interpersonal conflict.
 - e) Nature of Group.
 - f) Personal & organizational values.



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

Examination, October - 2017

SOFTWARE PACKAGES

(Paper : 201) (Revised)

Sub. Code : 59576

Day and Date : Tuesday, 10 - 10 - 2017

Total Marks : 80

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

Instructions : 1) Attempt any five questions.

2) Each question carries 16 marks.

3) Figures to the right indicate full marks.

Q1) What is MS-Office? Explain different components of MS-Office. [16]

Q2) What is MS-Word? Explain in brief the elements of MS-Word Window. [16]

Q3) a) Explain "How to format the document in MS-Word"? [8]

b) Explain the various applications of the MS-PowerPoint. [8]

Q4) a) Explain the steps required for creating table in MS-Word with the help of suitable example. [8]

b) Explain the features of MS-Excel. [8]

Q5) a) What is chart? Explain different types of charts used in MS-Excel. [8]

b) Explain different presentation layouts in MS-PowerPoint. [8]

P.T.O.

Q6) a) Explain in brief [8]

- i) Filtering the data in MS-Excel
- ii) Inserting the formulas

b) Describe the steps to perform following operations in MS-PowerPoint. [8]

- i) Creating a new presentation
- ii) Opening an existing presentation
- iii) Saving presentation
- iv) Closing Presentation

Q7) a) Explain Mathematical and String functions used in MS-Excel. [8]

b) Explain the steps to insert header, footer and graphs on slides in MS-PowerPoint. [8]

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

- a) Security of documents in MS-Word
- b) Macros
- c) Sorting the data in MS-Excel
- d) Validations
- e) Animation Schemes in MS-PowerPoint
- f) Slide Transitions



Seat No.	
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Total No. of Pages : 2

B.C.A. (Part - I) (Semester - II) Examination, October - 2017
PROGRAMMING IN 'C' (Part - II) (Revised) (Paper - II (202))

Sub. Code : 59577

Day and Date : Wednesday, 11 - 10 - 2017

Total Marks : 80

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

- Instructions :**
- 1) Attempt any 4 questions from Q.1 to Q.7.
 - 2) Question No. 8 is compulsory.



- Q1) a) What is function? Explain concept of array to function. [8]**
- b) Explain storage classes with example. [8]
- Q2) a) What is Structure? Write a program for structure within structure. [8]**
- b) Explain call by value & call by reference with example. [8]
- Q3) a) What is pointer? How pointers are declared & initialized. [8]**
- b) Explain recursive function with example. [8]
- Q4) a) What is prime number? Write a program to find prime number. [8]**
- b) Explain the concept of dynamic memory allocation. [8]
- Q5) a) Write a program for swap two numbers by using pointer to function. [8]**
- b) Explain file operations in C with example. [8]

P.T.O.

Q6) a) What is enum? Explain with suitable example. [8]

b) Explain how union is different from structure. [8]

Q7) Explain in detail return value and their types. [16]

Q8) Write Short Notes on (Any 4): [16]

a) Initialization of union.

b) Array of structure.

c) Type definitions in C.

d) Scope of variables.

e) Preprocessors in C.



Seat
No.

B.C.A. (Part - I) (Semester - II) Examination, October - 2017
Paper - 204, Financial Accounting With Tally
Sub. Code : 59579

Day and Date : Friday, 13 - 10 - 2017

Total Marks : 80

Time : 10.30 a.m. to 01.30 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) From the following information supplied to you, prepare Income & expenditure A/c for the year ending on 31/3/13 & Balancesheet as on that date for suryodaya club, Nasik. [16]

Balancesheet as on 1/4/2012

Liabilities	Amt. ₹	Assets	Amt. ₹
Capital fund	50,000	Land	60,000
Bank overdraft	35,000	Outstanding subscription	5,000
Outstanding salary	2000	Prepaid Insurance	2,500
		premium cash in hand	9,500
		furniture	10,000
	87,000		87,000

Receipts & Payments A/c for the year ended 31/3/13

Receipts	Amt. ₹	Payments	Amt. ₹
To Balance b/d	9,500	By Bank overdraft	35,000
		(Repaid)	
To Subscription	95,000	By Salary	12,500
To Admission fees	7,500	By Insurance Premium	8,000
		By Interest	1700
		By Miscellaneous exp.	4,400
		By Furniture	20,000
		By Balance c/d	
		cash in hand	5,400
		cash at Bank	25,000
	1,12,000		1,12,000

Adjustments :

- salary paid includes ₹ 2000 for last year
- Admission fees to be capitalised.
- Depreciate furniture by ₹ 2000
- on 31/3/13, prepaid insurance premium was ₹ 3000.
- Subscriptions received includes ₹ 3000 for 2011 - 12 & O/S subscriptions for 2012 - 13 was ₹ 8000.

Q2) The following balances appeared in the books of Ajanta mills Ltd on 31st Dec. 2001. The authorised capital of the company is Rs. 2,00,000 divided into 2000 shares of Rs. 10 each, prepare Trading & profit & loss A/c for the year ending on 31/12/01 & Balance sheet as on that date [16]

Trial Balance as on 31/12/2001

Debit Balances	Rs.	Credit Balances	Rs.
Advertisement	2100	Share capital	1,25,000
Buildings	62,400	Sales	1,78,940
Wages	25,930	Purchase Returns	940
Rent, Rates & Taxes	8,700	Discount A/c	370
Purchases	96,400	Loan on mortgage	12,000
Stock (1 - 1 - 2001)	36,630	General Reserve	8,000
Sales Returns	390	Sundry Creditors	20200
Carriage	2,250	Bank over drafts	6,620
Insurance	1,180	Reserve for doubtful debts	1000
Office salaries	6,970	P & C A/c. (1 - 1 - 2001)	5,000
Directors fees	4,500		
Motor Lorry	14,000		
Office furniture	3,200		
Interest & Bank charges	1360		
Calls in Arrears	2,500		
Sundry Debtors	36,000		
Preliminary exp.	1500		
Cash in hand	2060		
Good will	50,000		
	35,8070		35,8070



Adjustments :

- a) Stock on 31/12/2001 Rs. 40,000.
- b) Salaries outstanding Rs. 600, Insurance Prepaid Rs. 180
- c) R.D.D. at 5% on Debtors
- d) Depreciate buildings by 5% motor lorry by 10% & office furniture by 20%
- e) Transfer Rs. 2000 to General Reserve.

Q3) Define 'Company'. Explain the types of shares & Debentures. [16]

Q4) Explain the concept of grouping of accounts & ledgers under Tally. [16]

Q5) Explain the concept of VAT and write the different benefits of VAT. [16]

Q6) Write the following accounting Reports in detail. [16]

- a) Profit & Loss Account
- b) Balance sheet

Q7) Explain the following :

- a) Receipts & Payment A/c
- b) Income & Expenditure A/c



[16]

Q8) Write short notes (Any Two)

- a) Creation of company under tally
- b) Features of Tally
- c) Types of share capital
- d) Day book

[16]



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B.C.A. (Part - I) (Semester - II) Examination, October - 2017
Principles of Marketing

Sub. Code : 59580

Day and Date : Saturday, 14 - 10 - 2017

Total Marks : 80

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

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



- Q1) Define Marketing. And explain core concepts of Marketing. [16]**
- Q2) Explain different Micro and Macro elements of Marketing environment in details. [16]**
- Q3) Define marketing Mix. And explain 7P's of Marketing Mix. [16]**
- Q4) Explain different characteristics of services. And various problems in Service Marketing. [16]**
- Q5) What is mean by marketing Research? Explain steps in marketing research process. [16]**
- Q6) What is E-Marketing? Explain the significance of e-marketing in 21st Century. [16]**

P.T.O.

Q7) What is mean by Consumer Behaviour? Explain different factors affecting Consumer Behaviour. [16]

Q8) Write Short Notes (Any Four): [16]

- a) Holistic Marketing.
- b) Features of Marketing.
- c) Outsourcing of I.T. Services.
- d) Bases of Market Segmentation.
- e) Marketing Information System.
- f) Significance of Consumer Behaviour.



Seat No.	
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B.C.A. (Commerce) (Part - I) (Semester - II) Examination, October - 2017

BANK MANAGEMENT

Sub. Code : 59578

Day and Date : Thursday, 12 - 10 - 2017

Total Marks : 80

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

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



- Q1)** What do you mean by 'Bank'? Explain the functions of bank. [16]
- Q2)** What is meant by 'Liquidity Management'? Explain the various liquidity policies adopted by a bank. [16]
- Q3)** Explain the fundamental principles of security investment. [16]
- Q4)** Explain the reforms introduced in banking sector since 1991. [16]
- Q5)** What is 'Profit Management'? Explain the determinants of a bank's profits. [16]
- Q6)** Explain the important provisions of Banking Regulation Act, 1949. [16]
- Q7)** What do you mean by 'Non - Performing Assets (NPA)'? What are the reasons for NPA? Explain the measures to overcome the problem of NPA. [16]
- Q8)** Write Short Notes (Any Two) [16]
- a) e - Banking
 - b) Leasing the Hire Purchase
 - c) CRAR
 - d) Banks and Cyber law





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Total No. of Pages : 3

B.C.A. (Part - II) (Semester - III) Examination, May - 2018
COST ACCOUNTING (Paper - 301)

Sub. Code : 63396

Day and Date : Saturday, 05- 05 - 2018

Total Marks : 80

Time : 03.00 p.m. to 06.00 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) Define 'Cost' and 'Costing' and explain objectives of cost accounting. [16]

Q2) What is "Cost accounting" and "Financial accounting"? Distinguish between Cost accounting and Financial accounting. [16]

Q3) The Modem Manufacturing Company submits the following information on 31st March, 2014. [16]

Particulars	₹
Stock of Raw materials on 1.4.13	24,000
Stock of Raw materials on 31.3.14	31,400
Purchases of Raw materials	92,000
Drawings office salaries	3,200
Counting House salaries	6,000
Carriage Inward	2,300
Carriage outward	2,100
Bad debts written off	2,000

P.T.O.



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Rent, Rates, Taxes and Insurance :	
Factory	4,200
Office	1,500
Productive wages	60,500
Depreciation written off - Plant & Machinery	3,200
Depreciation written off-office furniture	150
Gas & Water :	
Factory	800
Office	300
Traveller's salaries & commission	2,400
Advertisements & samples	2,000
Maintenance of Delivery Van	2,000
Rent of Warehouse	1,200
Printing & Stationery	1,200
Telephone charges :	
Factory	800
Office	1,200
Sales	2,72,500



You are required to prepare cost-sheet from the above information.

Q4) Explain the various methods of pricing of material issues.

[16]

Q5) What is mean by overhead cost? Write about Classification, Allocation, Apportionment and Absorption of overheads.

[16]



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Q6) The following are the figures about receipts and issues of materials in 'X' Ltd. during March, 2015. [16]

- March 4 - Received from vendors 500 units @ ₹ 2.00 each.
- March 18 - Received from vendors 350 units @ ₹ 2.10 each.
- March 19 - Issued 600 units.
- March 24 - Received from vendors 600 units @ ₹ 2.20 each.
- March 25 - Issued 450 units.
- March 26 - Received from vendors 500 units @ ₹ 2.30 each.
- March 28 - Issued 510 units.
- March 29 - Issued 100 units.

Prepare the store ledger accounts on the basis of LIFO methods.

Q7) 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]

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

- a) Cost unit & Cost centre
- b) Elements of cost
- c) Overtime
- d) Labour Turnover
- e) Contract costing
- f) Time booking & Time keeping





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Total No. of Pages : 2

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B.C.A. (Part - II) (Semester - IV) Examination, May - 2018

DBMS USING MS-ACCESS (Paper - 403)

Sub. Code : 63405

Day and Date : Wednesday, 02 - 05 - 2018

Total Marks : 80

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

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

2) Solve any Four questions from QNo-1 to QNo-7.

3) All questions carry 16 marks.



Q1) a) What is normalization? Explain 1 NF, 2NF and 3NF. [8]

b) Explain any four aggregate functions used in SQL. [8]

Q2) What is DBMS? Explain various advantages and disadvantages of DBMS [16]

Q3) a) Explain how tables are created with example. [8]

b) How tables are altered? Give its options with example. [8]

Q4) a) Explain sequential and random access file organization. [8]

b) Describe various data types used in SQL with example. [8]

Q5) a) Explain various set operators used in relational algebra. [8]

b) Explain any two DML statements used in SQL. [8]

P.T.O

Q6) What is data model? Explain types of record based models. [16]

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

b) Explain select statement with order by clause. [8]

Q8) Write short answers (Any Four] [16]

a) Services provided by DBMS

b) File processing system.

c) Schema and subschema

d) Distributed database system.

e) Foreign key concept.



Seat No.	
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B.C.A. (Part - II) (Semester - IV) Examination, May - 2018
MATHEMATICAL FOUNDATION (Paper - 405)

(Computer Mathematics)

Sub. Code : 63407

Day and Date : Friday, 04- 05 - 2018

Total Marks : 80

Time : 11.00 a.m. to 02.00 p.m.

- Instructions :
- 1) Question No. 8 is compulsory.
 - 2) Attempt any FOUR questions from remaining 7 questions.
 - 3) Figures to the right indicate full marks.
 - 4) Use of non programmable calculator is allowed.

Q1) a) Define : Square matrix and Identity Matrix. If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ then show

that $A^2 - 5A + 2I = 0$. Where I is unit matrix.

b) Define the terms : Infinite set and empty set. There are 260 persons with 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

- i) chemical A but not chemical B,
- ii) chemical A or chemical B.

[16]

Q2) a) Give the meaning of conjunction and disjunction using truth table, prove the following equivalence.

$$p \leftrightarrow q \equiv (p \rightarrow q) \wedge (q \rightarrow p).$$

b) Define inverse of a matrix. Obtain the inverse of matrix $A = \begin{bmatrix} 2 & -3 & 3 \\ 2 & 2 & 3 \\ 3 & -2 & 2 \end{bmatrix}$

by using transformation method.

[16]

P.T.O.



- Q3) a) Define the terms : Complete graph and Bi-partite graph. Give an example of each.
- b) Give the meaning of Tautology. Prove that the statement pattern $[p \wedge (p \rightarrow q)] \rightarrow a$ is a tautology.

[16]

- Q4) a) Define cartesian product. If $A = \{a, b, c\}$, $B = \{x, y\}$, find

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

- b) If $A = \begin{bmatrix} 1 & 2 \\ 2 & 3 \end{bmatrix}$ and $B = \begin{bmatrix} 0 & 1 \\ 2 & 1 \end{bmatrix}$ then show that

- i) $AB \neq BA$
- ii) $(AB)' = B'A'$, where A' and B' are the transform matrices of A and B respectively.

[16]

- Q5) a) Let P : price increases q : demand falls. Express the following statements in the symbolic form using p and q.

- i) Price increases, then demand falls
 ii) Price increases iff the demand falls
 iii) If demand does not fall, then price does not increase
 iv) If price does not increase, then demand does not fall.

- b) Define the terms : Multigraph and pseudo graph. Draw a 3-regular graph with eight vertices.

[16]



Q6) a) Define complementary set and universal set. 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) $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$

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

b) State whether the following statements are true or false:

- In a simple graph with n vertices the degree of each vertex is at the most $n-1$.
- Every closed walk is a cycle.
- A circle with centre origin and radius four is a graph.
- In any graph, the sum of the degrees of all the vertices is always even.

[16]

Q7) a) Define Diagonal Matrix and give an example. If $A = \begin{bmatrix} 2 & -1 \\ 3 & 1 \end{bmatrix}$ and

$B = \begin{bmatrix} 11 \\ 14 \end{bmatrix}$ then find the matrix X such that $AX = B$.

b) Define Disjoint sets with an illustration. By Venn diagram shade the following sets

i) $(A \cup B)'$

ii) $(A - B) \cup (B - A)$

[16]



(Q8) a) Define a determinant of order 3×3 . Find value of x , if $\begin{vmatrix} x & 3 & 3 \\ 3 & 3 & x \\ 2 & 3 & 3 \end{vmatrix} = 0$.

b) Determine the truth values of the following statements

- 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 $3 - 2 = 1$

[16]





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B.C.A. (Part - II) (Semester - IV) Examination, May - 2018

WEB TECHNOLOGY

Sub. Code : 63406

Day and Date : Thursday, 03 - 05 - 2018

Total Marks : 80

Time : 11.00 a.m. to 02.00 p.m.

- Instructions :**
- 1) Attempt any 4 questions from Q1 to Q7.
 - 2) Q.8 is compulsory.
 - 3) Figures in right side indicate full marks.



- Q1)** a) What is HTML? Explain features of HTML. [8]
b) Explain hyperlink, Image and Image Map tags with example. [8]
- Q2)** a) What is Internet? Explain different types of web browsers. [8]
b) Define CSS. Explain internal and external CSS with example. [8]
- Q3)** a) What is mean by JavaScript? Explain its features. [8]
b) What is mean by Event? Explain Event handlers in JavaScript. [8]
- Q4)** a) Define validation. Explain Importance of validation with example. [8]
b) Write JavaScript program to display prime number between 1 to 100. [8]
- Q5)** a) Explain dialog boxes used in JavaScript with example. [8]
b) What is ASP? Explain advantages and limitations of ASP. [8]
- Q6)** a) Define object? Explain built in objects in JavaScript with example. [8]
b) What are the steps for making database connection using ASP? [8]
- Q7)** a) Explain different types of loop structure in Asp with example. [8]
b) Explain steps for developing online shopping website. [8]
- Q8)** Write short notes on- (Any 2) [16]
a) List tag
b) Web Server
c) HTML form
d) Table tag

