

B.C.A. (Faculty of Commerce) (Part-I) (Semester - I)
Examination, April - 2016
FUNDAMENTALS OF COMPUTER (Revised)
Sub. Code: 59569

Day and Date : Monday, 11 - 04 - 2016

Total Marks : 80

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

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

- Q1) a)** Write evolution of computer in detail. [8]
b) Define computer? Write its characteristics. [8]
- Q2) a)** Write any four input devices with its characteristics. [8]
b) Explain machine language, assembly language & high level language in detail. [8]
- Q3) a)** Write applications of computer in various fields. [8]
b) Differential between compiler and interpreter. [8]
- Q4) a)** What is memory? Explain types of memory. [8]
b) Write any four secondary storage devices. [8]
- Q5) a)** What is use of number system? Explain octal and hexadecimal number system in detail. [8]
b) Explain computer codes -BCD, ASCII. [8]

- Q6) a)** What is operating system? Explain types of operating system.
- b)** Write functions of operating system.

- Q7) a)** Write and explain internal and external DOS commands.
- b)** Write features of windows operating system with its components.

- Q8) Write shot notes on any TWO.**
- a)** Printer
- b)** Features of good language
- c)** Software
- d)** Windows explorer

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and Date : Tuesday
Time : 11.00 a.m. to 2.00

Instructions : 1) E
2) S
3) Q

[8+

1) a) Define an numbers.

b) Explain h

2) a) What is v of the va

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3) a) Discuss

b) What is with ex

4) a) What

b) List a

N-565

Total No. of Pages : 2

Seat
No.

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

102 : PROGRAMMING IN 'C' Part - I

Sub. Code : 59570

Day and Date : Tuesday, 12-04-2016

Total Marks : 80

Time : 11.00 a.m. to 2.00 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) Define an algorithm. Write an algorithm for maximum between three numbers. [8]
- b) Explain how to perform input and output Functions in 'C'. [8]
- Q2) a) What is variable? How to declare variable? Write the rules for declaration of the variable. [8]
- b) Discuss various conditional statements with the help of example. [8]
- Q3) a) Discuss do _____ while loop with its syntax and example. [8]
- b) What is array? Explain declaration and initialization of 1-dimensional array with example. [8]
- Q4) a) What is flowcharting? Write Advantages and Disadvantages of Flowchart. [8]
- b) List and explain the various operators used in 'C'. [8]

P.T.O.

N-565

Q5) a) Explain break and continue statement with suitable example. [8]

b) Write a program to find the factorial of a given number. [8]

Q6) a) Explain the different data types used in 'C'. [8]

b) Write an Algorithm and draw flowchart for calculating simple interest. [8]

Q7) a) Write a program to Check a given number is Armstrong or not. [8]

b) Differentiate between if and switch case statement. [8]

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

a) Explain the Keywords in 'C'.

b) How to initialize Character array.

c) Explain the types of errors.

d) Explain the Constants in 'C'.

e) Explain Any 2 string handling functions.

f) What is the use of exit statements?



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B.C.A.

Day and Date :
Time : 11.00 a.m.

Instructions :

Q1) a) Define

b) Explain

Q2) What is pla

Q3) a) Explain

b) Descri

Q4) What is staf

Q5) a) State th

b) Explain

Q6) What is mean

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N - 566

Total No. of Pages :2

B.C.A. (Faculty of Commerce) (Part - I) (Semester - I)

Examination, April - 2016

PRINCIPLES OF MANAGEMENT

Sub. Code: 59571

Day and Date : Wednesday, 13 - 04 - 2016

Total Marks : 80

Time :11.00 a.m. to 2.00 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) a) Define management and explain nature and importance of management. [8]
b) Explain the various functions of management. [8]
- Q2) What is planning? State the steps in planning process. [16]
- Q3) a) Explain in brief, importance of organising function. [8]
b) Describe in brief, formal and informal organisation. [8]
- Q4) What is staffing? State the scientific selection procedure. [16]
- Q5) a) State the importance of motivation. [8]
b) Explain in brief, Theory X and Y. [8]
- Q6) What is meant by leading? State the functions of a leader. [16]

P.T.O.

Q7) a) State in brief, importance of controlling. [8]

b) Explain in brief, steps in control process. [8]

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

a) Contribution of Peter Drucker.

b) Role of manager in organisation.

c) Techniques of control.

d) Challenges of leadership.

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Seat No.

B.C.A.

Day and Date :
Time : 11.00 a.m.

Instructions :

Q1) Prepare F

year endin

Trial Balan

Particulars

Motor Ca

Bills Rece

Rent

Advertiser

Bad debts

Machinery

Office exp

Carriage

Sundry D

Cash

Opening

Sales retu

Seat No.	
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N-567

Total No. of Pages : 4

B.C.A. (Faculty of Commerce) (Part - I) (Semester - I)
Examination, April - 2016
FINANCIAL ACCOUNTING
Sub. Code : 59572

Day and Date : Saturday, 16-04-2016

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

Total Marks : 80

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

Q1) Prepare Final Accounts from the following trial balance of Mr. Parag for the year ending 31/3/2012. [16]

Trial Balance as on 31/3/2012

Particulars	Rs.	Particulars	Rs.
Motor Car	1,00,000	Sundry Creditors	60,000
Bills Receivable	36,000	Dividend	9,000
Rent	4,800	Commission	7,000
Advertisement	41,500	Loan	60,000
Bad debts	1,800	(taken on 31/3/2012)	
Machinery	50,000	Purchase Return	8,000
Office expenses	2,400	Sales	1,96,000
Carriage	1,700	Capital	1,60,000
Sundry Debtors	24,000		
Cash	10,000		
Opening Stock	50,000		
Sales return	3,500		

P.T.O.

Purchases	1,36,000	
Salary	8,700	
Discount	1,000	
Wages	6,000	
Cash at bank	15,000	
Drawing	7,600	
	<u>5,00,000</u>	<u>5,00,000</u>

Adjustments:

- Closing stock on 31/3/2012 Rs. 1,50,000.
- Create R.D.D. at 5% on Debtors and provision for discount on creditors at 3%.
- Outstanding rent Rs. 1,200 and Outstanding salary Rs. 1,300.
- Prepaid wages Rs. 800.
- Depreciate Machinery by 5% and Motor Car by 10%.
- Commission received in advance Rs. 1,000.

Q2) Explain briefly the users of accounting information. [16]

Q3) What are the main accounting concepts? Explain any four of them in brief. [16]

Q4) Define Depreciation. What are the basic factors that influence the determination of the amount of depreciation? [16]

Q5) Journalise the following transactions of March 2012

Date	Particulars	Debit	Credit
Mar. 1st	...		
Mar. 1st	...		
Mar. 2nd	...		
Mar. 5th	...		
Mar. 7th	...		
Mar. 9th	...		
Mar. 12th	...		
Mar. 15th	...		
Mar. 18th	...		
Mar. 22nd	...		
Mar. 25th	...		
Mar. 31st	...		

Q6) Prepare Balance Sheet following

- Bank
- Cheque
- 2012
- Cheque
- 2012
- Inter
- Tele
- Che
- Bank
- Divi
- Tran
- reco
- Bar

Q5) Journalise the following transactions in the books of Mr. Ashish for the month of March 2015. [16]

<u>Date</u>	<u>Transactions</u>	<u>Amount</u>
Mar. 1st	Commenced business with cash	50,000
Mar. 1st	Introduced Furniture into business	25,000
Mar. 2nd	Deposited into bank	40,000
Mar. 5th	Bought goods and paid by cheque	20,000
Mar. 7th	Sold goods for cash	15,000
Mar. 9th	Sold goods to subhash on credit	15,000
Mar. 12th	Bought goods on credit from prakash	10,000
Mar. 15th	Received cash from subhash	10,000
Mar. 18th	paid office rent	2,000
Mar. 22nd	Issued cheque to Prakash	10,000
Mar. 25th	Purchased stationery for cash	600
Mar. 31st	Paid salary	4,000

Q6) Prepare Bank Reconciliation statement as on 31st March 2012 from the following information. [16]

- Bank balance as per cash book Rs. 1,60,000.
- Cheques received and deposited into bank but not cleared upto 31/3/2012. Rs. 25,000.
- Cheque issued to Munna Rs. 30,000 which is not presented upto 31/3/2012.
- Interest on Fixed Deposit, credited in the pass Book only Rs. 15,000.
- Telephone bill paid by bank Rs. 10,000.
- Cheque of Rs. 20,000 deposited into bank but dishonoured.
- Bank charges and commission Rs. 5,000 debited in passbook only.
- Dividend collected and credited in the passbook Rs. 20,000.
- Transfer Rs. 30,000 from fixed deposit A/C to current account is not recorded in the cash book.
- Bank balance as per passbook Rs. 1,95,000.

Q7) M/s Akash Traders Ltd. Satara purchased a machinery worth Rs. 7,20,000 on 1st April 2011 and spent Rs. 80,000 towards installation charges. The company depreciated the machinery at the rate of 10% p.a. on original cost.

On 1st April 2013, the company sold out a part of machinery for Rs. 64,000, the original cost of the machinery on 1st April 2011 was Rs. 1,20,000. On 1st Oct 2013, the company purchased a machinery for Rs. 10,000. Accounting year of the company closed on 31st March every year. Show Machinery Account and Depreciation Account for the year 2011/12, 2012/13, & 2013/14. [16]

Q8) Write short Answers (Any Two out - of 4) [16]

- Conservation and materiality convention.
- Cash book with Cash and Discount column.
- Types of Subsidiary Books.
- Importance of Journal.



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Day and Date
Time : 11.00 :

Instructions :

Q1) Define
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Q2) What i
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Q3) Defin
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Q4) Defin
comm

Q5) What
disad

Q6) What
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Seat
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N-568

Total No. of Pages : 2

B.C.A. (Faculty Commerce) (Part - I) (Semester - I)

Examination, April - 2016

OFFICE MANAGEMENT & COMMUNICATION

Sub. Code : 59573

Day and Date : Monday, 18 - 04 - 2016

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

Total Marks : 80

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

- Q1) Define office management and explain various functions of office management. [16]**
- Q2) What is office layout and describe the various factors affecting on office layout. [16]**
- Q3) Define office environment and explain different elements of office environment. [16]**
- Q4) Define communication and characteristics and importance of communication. [16]**
- Q5) What is formal and informal communication with its advantages and disadvantages. [16]**
- Q6) What is communication process and explain the steps in communication process in details. [16]**

P.T.O.

Q7) What is E-communication? Explain the benefits and limitations of E-communication. [16]

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

- a) Location of office.
- b) E-office.
- c) Elements of office management.
- d) Barriers to effective communication.
- e) Activities of office.
- f) Importance of office environment.

Seat No.

B.C.A.(

Day and Date :
Time :3.00 p.m.

Instructions :

Q1) What is M

Q2) a) What

b) What

Q3) What is M Window?

Q4) a) Expla

b) Expla

Q5) a) Expla

b) What

Q6) a) Give t

b) What

N- 569

Total No. of Pages :2

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

Total Marks :80

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

- 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.

Seat No.

- Q7) a) Explain different slide layouts in MS - Power point.
- b) How to insert various objects in MS-Word document?

[8]

[8]

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Q8) Write a short notes on (any four)

[16]

- a) Word completion in MS-Word.
- b) Spell check in MS-Word.
- c) Formula Auditing in MS-Excel.
- d) Data and time functions in MS-Excel
- e) Adding Header and footer
- f) Printing Handouts in MS-PowerPoint

Day and Date
Time :3.00 p.m.

Instructions :

Q1) What is

Q2) a) W

b) W

Q3) What is
Window

Q4) a) E

b) E

Q5) a) E

b) V

Q6) a)

b)



569

N- 569

[8] Seat No.

Total No. of Pages :2

[8] **B.C.A.(Faculty of Commerce)(Part -I)(Semester -II)**
(Revised)Examination, April - 2016
201:SOFTWARE PACKAGES
Sub. Code: 59576

[16]

Day and Date : Wednesday, 20 - 04 - 2016

Total Marks :80

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

- 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.
- b) How to insert various objects in MS-Word document?

[8]
[8]

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B.C.A. (I

Q8) Write a short notes on (any four)

[16]

- a) Word completion in MS-Word.
- b) Spell check in MS-Word.
- c) Formula Auditing in MS-Excel.
- d) Data and time functions in MS-Excel
- e) Adding Header and footer
- f) Printing Handouts in MS-PowerPoint

Day and Date
Time : 3.00

Instructions :

Q1) a) De
b) Ex

Q2) a) WI
b) WH

Q3) Explain

Q4) a) Exp
b) Exp

Q5) a) How
b) Exp



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[8]

[8]

B.C.A. (Faculty of Commerce) (Part - I) (Semester - II) (New)

Examination, April - 2016

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

Sub. Code : 59577

[16]

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 getch(), 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]

Q6) Describe various categories of a function with example.

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

Q8) Write short notes (Any Four):

- 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. (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

b) Write down the required steps for performing following operation MS - Excel.

- i) Inserting and deleting data in cell
- ii) Inserting and deleting rows
- iii) Inserting and deleting columns
- iv) Inserting and deleting sheets

Q5) a) How to create table in MS - Word?

b) How to add audio and video in MS - PowerPoint?

Q6) What do you mean by MS - Excel? Explain in brief the elements of MS - Excel Window.

Q7) a) Write in detail procedure to create mail merge in MS - Word.

b) Explain different functions used in MS - Excel.

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

- a) Track Changes in MS - Word.
- b) Printing document in MS - Word.
- c) Formatting Charts in MS - Excel.
- d) Setting formula in MS - Excel.
- e) Slide Show
- f) Arranging Objects on Slide.



and Date : Thursday, 29
ne : 11.00 a.m. to 2.00 p.m.

- Instructions:
- 1) Question
 - 2) Answer
 - 3) All que

Rohit company Ltd. v
2,000 equity shares. 1
follows:

Particulars

- Issued share capital
- Motor car
- Sundry Debtors
- Salaries
- Bank Interest
- Rent Received
- Travelling Expenses
- Machinery
- Sales
- Building
- Discount Allowed

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.

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, 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]

What is a program using which to store the data?
(name, designation and salary)

Write a C program using which to store the data?
(name, designation and salary)

What is a union? Explain with example.

What is a pointer? Explain with example.

Seat No.	
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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)	36,000	6% debentures of	
(face value Rs 40,000)		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:

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



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]

Inter
Rep
Pur
Ret
Adv
Auc
Car
Wa
Ins
Sto
Gen
Del
(Le
Yo
a)
b)
c)
d)
e)
f)
g)
h)

Q4) Describe the vertical format of Balance Sheet.

Q5) Write different steps to create a Company using Tally. Also explain features of Tally.

Q6) Explain the following:

- a) Creation and Alteration of Voucher.
- b) TDS Reports.

Q7) Describe different types of Vouchers.

Q8) Write short answer (Any Two):

- a) Groups and Ledgers using Tally.
- b) Interest Computation.
- c) TCS Reports.
- d) Vertical Format of Profit & Loss Account.



Seat No.	
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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



Seat No.	
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B.C.A. (Part - I) (Semester - II) Examination, April - 2014
BUSINESS MATHEMATICS (Old)

Sub. Code : 55813

Day and Date : Thursday, 24 - 04 - 2014

Total Marks : 100

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

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

Q1) a) Define the term contingency. Show that $(p \leftrightarrow q) \wedge \sim (p \rightarrow \sim q)$ is a contingency.

b) Symbolize the following statements.

- i) He swims iff the water is warm
- ii) If water is warm then he swim
- iii) If water is not warm the he does not swim
- vi) He swims and water is warm

c) If p is true statement and q is false statement then find truth value of $(p \rightarrow q) \leftrightarrow (\sim q \rightarrow \sim p)$.

[8 + 6 + 6]

Q2) a) Define the term Cartesian product. If $A = \{1, 2, 3\}$, $B = \{2, 4\}$ then find

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

b) Define power set. If $A = \{1, 2, 3\}$ then find the power set of A.

c) By Venn diagram shade the following sets.

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

[8 + 6 + 6]

P.T.O.

Q3) a) State the Binomial theorem for a positive integer. If the coefficients of x^7 and x^8 in the expansion of $\left(3 + \frac{x}{2}\right)^n$ are equal, find n .

b) Find the value of n , if ${}^n C_5 = 6^n P_2$

c) Using Mathematical Induction, prove that $1 + 2 + 3 + \dots + n = \frac{n(n+1)}{2}$
[8+6+6]

Q4) a) Using property of determinant show that

$$\begin{vmatrix} 1 & ac & b(c-a) \\ 1 & ba & c(b-a) \\ 1 & cb & a(b-c) \end{vmatrix} = 2ab(b-c)(a-c).$$

b) Find the value of x , if $\begin{vmatrix} 1 & -2 & 3 \\ 2 & x & 4 \\ -1 & 2 & 3 \end{vmatrix} = 0$

c) Solve the equations by Cramer's rule $4x - 3y = 17, 5x + y = 7$.

[8+6+6]

Q5) a) Show that the inverse of matrix $A = \begin{pmatrix} 1 & 2 & 3 \\ 0 & -1 & 1 \\ 1 & 1 & 2 \end{pmatrix}$ exists and find its inverse.

b) If $A = \begin{pmatrix} 1 & 0 \\ -1 & 2 \end{pmatrix}$ and $B = \begin{pmatrix} 2 & 1 \\ 3 & -2 \end{pmatrix}$ then show that $(AB)' = B'A'$, where A' and B' are the transpose matrices of A and B respectively.

c) Find the values of x and y if

$$\left\{ 3 \begin{bmatrix} 4 & 1 & 3 \\ 0 & -1 & -3 \end{bmatrix} - 2 \begin{bmatrix} 3 & 2 & 4 \\ -6 & 1 & -3 \end{bmatrix} \right\} \begin{bmatrix} 1 \\ 3 \\ 2 \end{bmatrix} = \begin{bmatrix} x \\ y \end{bmatrix}$$

[8 + 6 + 6]

Q6) a) Evaluate $\int_0^1 \frac{1}{1+x^2} dx$ using trapezoidal rule by taking stepwidth $h = 0.2$.

b) Solve the following equations by matrix method

$$x + y = 3, 2x + y = 4.$$

c) At what point the function $f(x) = 2x^3 - 3x^2 - 12x + 12$ will be maximum? Find the maximum value.

[8 + 6 + 6]

Q7) a) Evaluate i) $\lim_{x \rightarrow 2} \left[\frac{1}{x-2} - \frac{2}{x^2-2x} \right]$ ii) $\lim_{x \rightarrow 0} \left[\frac{x}{\sqrt{x+a} - \sqrt{a}} \right]$.

b) If $y = xe^y$, then show that $\frac{dy}{dx} = \frac{y}{x(1-y)}$

c) If $y = e^{mx} + e^{-mx}$, then show that $\frac{d^2y}{dx^2} = m^2 y$

[8 + 6 + 6]

Q8) Attempt any four.

- a) Prove that $[\sim p \wedge (p \rightarrow q)] \rightarrow \sim p$ is a tautology.
- b) State the conditions for minima and maxima of a function $f(x)$.
- c) Find number of ways of selecting 6 balls from 6 red balls, 5 white balls and 7 blue balls, if each selection consists of 2 balls of each colour.

d) If $A = \begin{bmatrix} 4 & 1 \\ -1 & 2 \end{bmatrix}$, then show that $A^2 - 6A + 9I = 0$, where $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$.

e) Test whether the matrix $A = \begin{bmatrix} -2 & -1 & 4 \\ 6 & -3 & -2 \\ 4 & 1 & 2 \end{bmatrix}$ is singular or nonsingular.

f) If $A = \{1, 2, 3, 4\}$, $B = \{3, 4, 5, 6\}$ and $C = \{4, 5, 6, 7\}$ then find

i) $A - B$

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

Seat
No.

Total No. of Pages : 2

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

Examination, April - 2014

PRINCIPLES OF MANAGEMENT

Sub. Code : 55815

Day and Date : Saturday, 26 - 04 - 2014

Total Marks : 100

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

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

Q1) a) Explain the nature of management. [10]

b) State the role of manager in organisation [10]

Q2) a) State the administrative approach of Henry Fayol. [10]

b) Explain the levels of management. [10]

Q3) a) State the steps in planning process. [10]

b) Describe the importance of organising. [10]

Q4) a) State the types of organisation. [10]

b) Explain in brief sources of recruitment. [10]

Q5) a) Describe the concept of performance appraisal. [10]

b) Explain the importance of motivation. [10]

P.T.O.

- Q6) a) State the functions of leader. [10]
- b) Explain the importance of controlling. [10]
- Q7) a) Explain the steps in control process. [10]
- b) What is meant by supervision? [10]
- Q8) Write short notes (any four) [4 × 5 = 20]
- a) Delegation of authority.
 - b) Importance of management.
 - c) Types of plan.
 - d) Theory 'y'.
 - e) Challenges of leadership.
 - f) Characteristics of staffing.

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Seat No.	
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B.C.A. (Part - I) (Semester - II) (Faculty of Commerce)
Examination, April - 2014

FINANCIAL ACCOUNTING WITH TALLY (New)

Sub. Code : 59579

Day and Date : Friday, 25- 04 - 2014

Total Marks : 80

Time : 3.00 p.m. to 6.00 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) Following balances are extracted on 31-03-2004 from the books of Ceebee Ltd.

[16]

Trial Balance

Debit Balances	Amt. ₹	Credit Balances	Amt ₹.
Factory premises at cost	4,50,000	Share capital	
Plant & Machinery cost	3,49,160	Preference	3,00,000
Motor lorries at cost	73,000	Equity	6,00,000
Sundry debtors	1,21,780	Profit & loss A/c	16,240
Bad debts written off	2,850	Gross profit	2,46,640
Rent, Rates	28,400	Provision for doubtful debts	9,000
Advertisement	19,500	Sundry creditors	1,29,640
Cash in hand	68,500	Transfer fee	110
Directors fees	3,600	Accrued wages	12,840
Audit fees	10,000	Staff fund	17,900
Stock 31-03-2004	1,14,600		
Rent & taxes paid in advance	7,980		
Salaries & wages	32,000		
Dividends paid on Pref. shares	21,000		
On equity shares (interim)	15,000		
Discount on issue of shares	15,000		
	13,32,370		13,32,370

The provision for doubtful debts is to be made up to ₹ 10,200. The factory premises, plant & machinery and motor lorries are to be depreciated by 3%, 15% & 20% respectively. The authorised capital of the company is ₹ 10,00,000.

You are required to prepare

- Profit & Loss A/c.
- Balance sheet as on 31-03-2004.

Q2) Given below is the Balancesheet as on 1.04.2010 and Receipts and Payments Account for the year ending 31-03-2011 of Samat Sports Club, Solapur, Prepare Income & Expenditure Account for year ending on 31-03-2011 and the Balance sheet as on that date. [16]

Balance Sheet as on 1.04.2010

Liabilities	Amt. ₹	Assets	Amt ₹
Capital Fund	4,62,500	Play ground	4,00,000
Building Fund	2,50,000	Furniture	18,000
Subscription Received in Advance for the year 2010-2011	4,500	Stock of sports material	22,000
		Building fund investment	2,50,000
		Cash in hand	1,600
		Cash at Bank	8,400
		Outstanding subscriptions	17,000
	7,17,000		7,17,000

Receipts & Payments Account for the year ending 31.03.11

Dr	Amt. ₹	Amt. ₹	Payments	Amt ₹	Cr.	Amt ₹
To Balance b/d			By Sports material purchased			26,000
Cash in hand	1,600	10,000	By Salaries & wages			43,500
Cash at Bank	8,400	1,00,900	By Office Rent			63,000
To Subscription		6,500	By Telephone charges			3,900
To Admission Fees		28,000	By Printing and Stationery			2,300
To Donations		1,350	By Balance C/d			
To Sundry Receipts			Cash in hand	6,000		
To Interest on Investment of Building fund		9,000	Cash at Bank	11,050		17,050
		1,55,750				1,55,750

Adjustments :

- a) Stock of sports material in hand on 31-03-2011 was ₹ 24,000.
- b) Admission fees and Donations are to be capitalised.
- c) Subscription received during the year included ₹ 17,000 for previous year and ₹ 5,000 for the next year. Current years subscription ₹ 14,500 is outstanding.

Q3) What is Tally? Explain accounts groups & Ledger under Tally. [16]

Q4) Explain the Types of shares and Debentures with their concepts. [16]

Q5) What do you mean by 'Not for profit concern'? Distinction between Receipts & Payments Account and Income & Expenditure Account. [16]

Q6) Write the following Accounting Reports in detail [16]

- a) Trial Balance.
- b) Profit & Loss A/c.
- c) Balance Sheet.

Q7) Describe the following Reports in brief : [16]

- a) CST Reports.
- b) TDS Reports.
- c) TCS Reports.
- d) Inventory Reports.

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

- a) Receipt & Payment A/c.
- b) Creation of Company under Tally.
- c) Types of Share capital.
- d) VAT computation & VAT forms.



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- b) Admission fees and Donations are to be capitalised.
- c) Subscription received during the year included ₹ 17,000 for previous year and ₹ 5,000 for the next year. Current years subscription ₹ 14,500 is outstanding.

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Q4) Explain the Types of shares and Debentures with their concepts. [16]

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- c) Balance Sheet.

Q7) Describe the following Reports in brief : [16]

- a) CST Reports.
- b) TDS Reports.
- c) TCS Reports.
- d) Inventory Reports.

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

- a) Receipt & Payment A/c.
- b) Creation of Company under Tally.
- c) Types of Share capital.
- d) VAT computation & VAT forms.



Seat No.	
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B.C.A. (Part - I) (Semester - II) Examination, April - 2014

PRINCIPLES OF MARKETING (New) (Revised)

Sub. Code : 59580

Day and Date : Saturday, 26 - 04 - 2014

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) What is marketing ? explain the features and significance of marketing. [16]

Q2) What is marketing environment ? Explain the elements in macro and micro environment. [16]

Q3) Define marketing mix and explain the 7p's of marketing mix [16]

Q4) a) What is mean by service ? Explain the characteristics of services. [8]

b) Explain the problems in service marketing [8]

Q5) Define marketing Research? Explain the steps in marketing research process.[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]

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

- a) Green marketing & holistic marketing
- b) Marketing Information system.
- c) Out sourcing of I. T. services.
- d) Techniques of E- marketing.





Seat No.	
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B.C.A. (Part - I) (Semester - II) Examination, 2012
(Commerce Faculty)
DATA STRUCTURE USING C
Sub. Code : 45919

Day and Date : Wednesday, 5-12-2012
 Time : 10.30 a.m. to 1.30 p.m.

Total Marks : 80

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

1. a) What is Stack ? Explain Push and Pop operation of the stack. 8
 b) What is one dimensional array ? Explain with example. 8
2. a) Write a program which accept order of matrix along with elements and display transpose of given matrix. 8
 b) Explain how to implement Queue using an array. 8
3. a) Explain different drawbacks of sequential storage. 8
 b) Write a program which find out given element in the array. 8
4. a) Explain the term binary tree and strictly binary tree. 8
 b) Explain different application of a Queue. 8
5. a) Develop an ADT specification for the varying length character string. 8
 b) What is Doubly Linked List ? Explain it with example. 8
6. a) Explain the difference between linear search and binary search. 8
 b) Explain different application of a searching. 8
7. Explain exchange and insertion sort with example. 16
8. Solve any two (8 marks each) : 16
 - a) Priority Queue
 - b) Quick sort
 - c) Preorder Traversal.



Seat No.	
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B.C.A. - I (Sem. - II) (Commerce Faculty) Examination, 2012
DBMS THROUGH MS-ACCESS
Sub. Code : 45918

Day and Date : Thursday, 6-12-2012
Time : 10.30 a.m. to 1.30 p.m.

Total Marks : 80

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

1. What is DBMS ? Explain layered architecture of DBMS with diagram. 16
2. Explain the concept of entity relationship model with suitable example and draw E-R diagram for Hospital Management System. 16
3. a) Explain the advantages of DBMS over traditional file system. 8
b) Explain the role of DBA. 8
4. a) Explain Hierarchical data model with its advantages and limitations. 8
b) What is data independence ? Explain logical data independence in detail. 8
5. Design database for inventory application with appropriate constraints. 16
6. What is normalisation ? Explain 1NF, 2NF and 3NF with suitable example. 16
7. a) Explain DDL statements with their syntax and example. 8
b) What is file ? Explain random access file organisation with its benefits. 8
8. Write short notes on **(any four)** : 16
 - a) Database Security
 - b) Network model
 - c) Integrity Constraints
 - d) MS-Access
 - e) Types of relationship
 - f) Indexed sequential file.

Seat No.	
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B.C.A. - I (Semester - II) (Commerce Faculty) Examination, 2012
BUSINESS MATHEMATICS
Sub. Code : 45920

Day and Date : Friday, 7-12-2012
 Time : 10.30 a.m. to 1.30 p.m.

Total Marks : 80

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

1. a) Define Contradiction.
 Prove that $\sim [(p \vee q) \wedge \sim p] \rightarrow q$ is a contradiction. 4
- b) Write truth tables of connectives
 i) Negation ii) Disjunction iii) Conjunction iv) Implication. 4
- c) Prove the De Morgan's Law $\sim (p \vee q) \equiv \sim p \wedge \sim q$. 4
- d) If A, B are true statements and X is false statement determine the truth value of $\sim (A \leftrightarrow B) \wedge X$. 4
2. a) If universal Set $U = \{a, b, c, d, e, f, g, h, \}$, $A = \{a, b, c, d\}$, $B = \{c, d, e, f\}$, then find $A \cap B, A \cup B, A - B, A' - B$. 4
- b) Using Venn digram prove Distribution Law $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$. 4
- c) If $A = \{a, b, c\}$, $B = \{1, 2, 3, 4\}$ find Cartesian products $A \times B$ and $B \times A$. 4
- d) By mathematical induction prove that $1 + 3 + 5 + \dots + (2n - 1) = n^2$ $n \geq 1$. 4
3. a) How many 3 digit numbers can be formed using digits 1, 2, 3, 4, 7 ; no digit is repeated ? How many of these are even numbers ? 4
- b) Prove that ${}^n C_r + {}^n C_{r-1} = {}^{n+1} C_r$. 4
- c) Using Binomial theorem find the value of $(2.1)^4$. 4
- d) Find the term independent of x in the expansion $(x^2 + \frac{1}{x})^6$. 4

P.T.O.



Seat No.

4. a) Show that
$$\begin{vmatrix} a-b & b-c & c-a \\ b-c & c-a & a-b \\ c-a & a-b & b-c \end{vmatrix} = 0.$$

b) Find x which satisfies
$$\begin{vmatrix} x^2 & 4 & 9 \\ x & 2 & 3 \\ 1 & 1 & 1 \end{vmatrix} = 0.$$

c) Using Cramer's rule solve the following equations.

$$2x - y = 5$$

$$3x + 2y = -3$$

d) Using properties of determinant find value of
$$\begin{vmatrix} 1 & 9 & 81 \\ 1 & 10 & 100 \\ 1 & 11 & 119 \end{vmatrix}.$$

5. a) If $A = \begin{bmatrix} -2 & 1 & 3 \\ 0 & -2 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & x \\ -1 & 2 \\ y & z \end{bmatrix}$ find x, y, z if $A' + B = 0$.

b) Find inverse of matrix $\begin{bmatrix} 1 & 3 \\ 1 & 4 \end{bmatrix}.$

c) Using Matrix method solve the equations :

$$2x + y = 6$$

$$x - 2y = -2$$

d) If $A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix}, B = \begin{bmatrix} 2 & 3 & 4 \\ -1 & 0 & 5 \end{bmatrix}$ verify that $(A+B)' = A' + B'$.



Seat No.	
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6. a) Using Simpson's $\frac{3}{8}$ th rule evaluate $\int_2^{10} \frac{1}{1+x} dx$ by dividing the range into 8 equal parts.

6

b) If $A = \begin{bmatrix} x & 0 \\ 0 & y \end{bmatrix}$ show by mathematical induction that $A^n = \begin{bmatrix} x^n & 0 \\ 0 & y^n \end{bmatrix}, n \in \mathbb{N}$.

5

c) Find maximum and minimum value of the function $f(x) = x^3 - 3x^2 - 9x + 27$.

5

7. a) Evaluate $\lim_{x \rightarrow a} \frac{x^3 - a^3}{x - a}$.

4

b) Evaluate $\lim_{x \rightarrow 0} \frac{\sqrt{1+x^2} - 1}{x^2}$.

4

c) Find $\frac{dy}{dx}$ if $y = \frac{x^2 - 1}{(x-1)^2}$.

4

d) Differentiate w.r.t. x
 $y = \log(x \cdot 5^x)$.

4

8. Write short note on **any four** of the following :

16

- a) Cramer's rule.
- b) Converse, inverse and contrapositive of a conditional statement.
- c) Properties of determinant.
- d) Rules of derivative of $y = u + v, y = u - v, y = uv$ and $y = \frac{u}{v}, v \neq 0$; u, v being functions of x .
- e) Singular, nonsingular, null, identify matrices.
- f) Mathematical induction.

Credit allowed by suppliers - Average 4 weeks
 Credit allowed to Debtors - _____
 Cash at bank is expected to be - Rs. 50,000
 Assume that production is sustained at an even pace during the 52 weeks of the year. All sales are on credit basis.

Seat No.	
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B.C.A. (Commerce Faculty) (Part – I) (Semester – II) Examination, 2012
FINANCIAL MANAGEMENT
Sub. Code : 45921

Day and Date : Saturday, 8-12-2012
 Time : 10.30 a.m. to 1.30 p.m.

Total Marks : 80

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

1. Define working capital. State the determinants of working capital.
2. What assumptions Modigliani – Miller model make in developing their theory ? What are the limitations of this theory ?
3. What do you mean by Financial Statement Analysis ? Explain the different tools of Financial Statement Analysis.
4. From the following information, you are required to estimate the net working capital.

Cost per unit

	Rs.
Raw materials	400
Direct labour	150
Overheads (excluding dep.)	300
Total cost	850

Additional information :

Selling price per unit Rs. 1,000

Output per annum – 52000 units

Work in progress (assumed 50% completion stage with full material consumption)
 – Average 2 weeks

Raw material in stock – Average 4 weeks

Finished goods in stock – Average 4 weeks

Credit allowed by suppliers – Average 4 weeks

Credit allowed to Debtors – Average 8 weeks

Cash at bank is expected to be – Rs. 50,000

Assume that production is sustained at an even place during the 52 weeks of the year. All sales are on credit basis.

5. Tushar Ltd. wish to arrange overdraft facilities with its bankers during the period April to June 2011 when it will be manufacturing mostly for stock. Prepare a cash budget for the above period from the following data, indicating the extent of the bank facilities the company will require at the end of each month.

Month	Sales	Purchases	Wages
February	180000	124800	12000
March	192000	144000	14000
April	108000	243000	11000
May	174000	246000	10000
June	126000	268000	15000

Additional information :

- 1) 50% of the credit sales are realised in the month following the sales and the remaining 50% in the second month following.
 - 2) Creditors are paid in the month following the month of purchase.
 - 3) Cash at bank on 1-4-2011 (estimated) is Rs. 25,000.
6. The following are summarised profit and loss A/c for the year ended 31-03-2011 and Balance Sheet as on that date.

Trading and Profit and Loss Account

Particulars	amount	Particulars	amount
To opening stock	10,000	By sales	1,00,000
" Purchases	55,000	" closing stock	15,000
" Gross profit	50,000		
	1,15,000		1,15,000
" Administration exps.	15,000	" G.P.	50,000
" Interest	3,000		
" Selling exps.	12,000		
Net profit	20,000		
	50,000		50,000



Balance Sheet as on 31-03-2011

Liabilities	Rs.	Assets	Rs.
Share capital (Rs. 10 each)	1,00,000	Land and building	50,000
Profit and Loss A/c	20,000	Plant and machinery	30,000
Creditors	25,000	Furniture	20,000
Bills payables	15,000	Stock	15,000
		Debtors	15,000
		Bills receivables	12,500
		Cash and bank balance	17,500
	1,60,000	Total	1,60,000

Day and Date : Monday, 10-12-2012
 Time : 10.30 a.m. to 1.30 p.m.

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

Additional information : any 4 questions from Q. No. 1 to Q. No. 7.

Average debtors Rs. 12,500, credit purchases Rs. 40,000, credit sales Rs. 80,000.

1. From the above information calculate.
 - a) Stock turnover ratio
 - b) Debtors turnover ratio
 - c) Net profit ratio
 - d) Current ratio
 - e) Acid test ratio.
7. What do you mean by Financial Planning ? State the characteristics of Financial Planning.
8. Write short notes (any two) :
 - a) Motives for holding inventories
 - b) Common size statement
 - c) Trend analysis
 - d) Under capitalisation.



Seat No.	
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**B.C.A. (Faculty of Commerce) (Part - I) (Semester - II)
Examination, 2012**

PRINCIPLES OF MANAGEMENT

Sub Code : 45922

Total Marks : 100

Day and Date : Monday, 10-12-2012

Total Marks : 80

Time : 10.30 a.m. to 1.30 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.

- | | |
|---|----|
| 1. Define Management. Discuss the functions of Management. | 16 |
| 2. What do you mean by Organising ? Explain various principles of Organising. | 16 |
| 3. What do you mean by Planning ? What are the different types of planning ? | 16 |
| 4. Define Motivation. How Motivation is important in an Organisation ? | 16 |
| 5. a) Define Control. Discuss its importance. | 8 |
| b) State various steps in Control Process. | 8 |
| 6. a) What is leadership ? Explain different leadership styles. | 8 |
| b) What are the different challenges of leadership ? | 8 |
| 7. Explain various approaches of Management. | 16 |
| 8. Write short notes (any two) : | 16 |
| 1) Authority and Responsibility | |
| 2) Formal and Informal Organisation | |
| 3) Theory 'X' and Theory 'Y' | |
| 4) Recruitment and Selection. | |



Seat No.	
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B.C.A. – I (Semester – I) (Commerce Faculty) Examination, 2012
MODERN OPERATING ENVIRONMENT
Sub. Code : 55804

Day and Date : Tuesday, 11-12-2012
 Time : 10.30 a.m. to 1.30 p.m.

Total Marks : 100

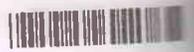
Instructions : 1) **Each question carries 20 marks.**

2) **Solve any four questions from Q. 1 to Q. 7.**

3) **Q. 8 is compulsory.**

1. a) What is an operating system? Explain different internal DOS commands. 10
 b) Explain different computer languages in detail. 10
2. a) What is a computer network ? Explain its advantages and limitations. 10
 b) Discuss the different components of Ms-Office. 10
3. a) Explain binary number system with suitable example. 10
 b) What is need of an operating system ? Write the difference between DOS and Windows operating system. 10
4. a) Explain different network topologies in detail. 10
 b) How to format the documents in Ms-Word ? 10
5. a) What are the different features of Ms- Excel ? 10
 b) Explain structure and functions of an operating system. 10
6. a) What is the use of language translator ? Explain any two translators. 10
 b) Draw a diagram and explain working of floppy disk. 10

P.T.O.



- 7. a) How to manage the files and folders in Windows operating system ? 10
- b) Explain applications of computers in different fields. 10
- 8. Attempt **any four** questions from the following. 20
- a) Why ASCII code is called as error detecting code ?
- b) Write the different uses of windows accessories.
- c) What are the different types of computer networks ?
- d) Write the different features of Ms-Power Point.
- e) What is need of external storage devices ?
- f) How to convert a decimal number into its equivalent octal number ?

Discuss the different components of Ms-Office

- a) Explain binary number system with suitable example. 10
- b) What is need of an operating system? Write the difference between DOS and Windows operating system. 10
- c) Explain different network topologies in detail. 10
- d) How to format the documents in Ms-Word? 10
- e) What are the different features of Ms-Excel? 10
- f) Explain structure and functions of an operating system. 10
- g) What is the use of language translator? Explain any two translators. 10
- h) Draw a diagram and explain working of floppy disk. 10

Seat
No.

B.C.A.I. (Semester – I) (Commerce Faculty) Examination, 2012
COMPUTER APPLICATIONS IN STATISTICS
 Sub. Code : 55806

Day and Date : Wednesday, 12-12-2012
 Time : 10.30 a.m. to 1.30 p.m.

Total Marks : 100

- Instructions :** 1) Question number 8 is **compulsory**.
 2) Attempt **any four** questions from the **remaining** questions.
 3) Figures to the **right** indicate **full marks**.
 4) **Use of non-programmable calculator is allowed**.

1. a) Define the terms : Statistics, classification, Tabulation. State the various parts of a statistical table. 10

b) Explain in brief the construction of Histogram. Draw a Histogram from the following data and determine the value of mode from it.

Class	0-10	10-20	20-30	30-40	40-50
Frequency	5	8	15	12	7

10

2. a) Define combined mean and combined S.D.
 Two samples of sizes 40 and 50 have same mean 25 but different standard deviations 19 and 18 respectively. Find mean and S.D. of combined group. 10

b) Explain the term regression. State the equations of regression lines. You are given the following information.

$\bar{X} = 40$, $\bar{Y} = 50$, S.D. of X = 2.5, S.D. of Y = 3.5 and $r =$ correlation coefficient = 0.8.

Obtain equation of regression line of X on Y and find best estimate of X when Y = 45. 10

X	3	4	5	6	7	8
Y	14	10	12	8	11	8

P.T.O.



3. a) Define Time Series. State its components.
Find trend values by using 4-yearly centered moving averages.

Year	1	2	3	4	5	6	7	8	9
Values	110	112	115	120	122	130	125	120	150

- b) Define M.D. about Mean. Give the name of any two relative measure of dispersion. Find M.D. about mean for the following data.

Values (X) : 35, 31, 29, 63, 55, 72, 37. Also find coefficient of M.D.

4. a) State the formula for Fisher's quantity index number. Calculate price index numbers from the following data by applying Laspeyre's, Paasche's and Fisher's formulae.

Commodity	Base Year		Current Year	
	Price in Rs.	Value in Rs.	Price in Rs.	Value in Rs.
A	12	120	15	225
B	20	160	30	360
C	50	100	70	210
D	100	100	110	220

- b) Define Mean and Median. State the merits and demerits of Mean. Compute the values of Mean and Median for the following data :

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

5. a) Define the terms : Sample and Sampling. Explain SRSWR and SRSWOR.

- b) Define correlation and coefficient of correlation. Find correlation coefficient from the following data :

X	2	3	4	5	6	7	8
Y	6	8	11	9	12	10	14

6. a) State the properties of regression coefficients (any two). Find the values of regression coefficients and correlation coefficient, if the equations of regression lines are $x + 0.2y = 4.2$ and $0.8x + y = 8.4$ 10
- b) Explain i) Secular trend ii) Method of moving averages. 10
7. a) Write note on price index number by using simple aggregate method. Compute quantity index numbers by using. i) Simple aggregate method ii) Average of relatives method from the following data :

Commodity	Wheat	Milk	Fish	Sugar
Quantity in Kgs (Base year)	2	4	10	50
Quantity in Kgs (Current year)	3	5	12	60

10

- b) Following data gives number of wickets taken by A and B in one day test matches.

Wickets taken by A	4	1	5	2	5	2	6
Wickets taken by B	4	5	6	5	3	4	4

Find who is consistent in taking the wickets.

10

8. a) Draw scatter diagrams and interpret if, $r = +1$, $r = -1$, $r = 0$. 8
- b) Find S.D. and its relative measure from the following data :

Age in years	10-20	20-30	30-40	40-50	50-60
No. of workers	2	10	28	20	12

6

- c) State the relationship between Mean, Median and Mode. Use it to find A.M., if Median is 43 and Mode is 40. 6

Y = 245



Seat No. _____

B.C.A. (Part – I) (Semester – I) Examination, 2012
(Faculty of Commerce)
FINANCIAL ACCOUNTING WITH TALLY – 9.0
Sub. Code : 55807

Day and Date : Thursday, 13-12-2012
Time : 10.30 a.m. to 1.30 p.m.

Total Marks : 100

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

1. A) Enter the following transactions in the Journal of Tushar. 10

Jan. 2012

- 1 Tushar sold his private car for Rs. 30,000 and brought the proceeds into business; of which Rs. 10,000 were deposited into Bank.
- 3 Loan of Rs. 6,000 given by cheque to Mahesh.
- 6 Paid Rs. 2,000 for repairs of machinery.
- 10 Paid for Advertisement Rs. 1,250.
- 15 Tushar purchased a cycle for his son for Rs. 3,600 and paid by cheque.
- 18 Sold old furniture for Rs. 12,000.
- 20 Received interest Rs. 80 on loan given to Mahesh.

B) Post the above transactions given in 'A' in the ledger of Tushar and balance the ledger Accounts. 10

P.T.O.

P.T.O.



2. Following is the trial balance of Ravi and Shashi who share profits and losses in proportion of 3 : 2.

Debit Balances		Credit Balances	
Stock on 1-4-2011	45,000	Sales	1,87,500
Purchases	1,12,500	Returns	1,500
Drawings – Ravi	16,500	Discount	1,500
Shashi	15,000	Creditors	45,000
Returns	3,600	Capital – Ravi	52,500
Wages – Productive	5,250	Shashi	67,500
Unproductive	900	Bank Overdraft	15,000
Salaries	9,300		
Rent and Insurance	5,100		
Bad debts	600		
Discount	1,950		
Machinery	22,500		
Building	54,300		
Debtor	76,500		
Cash	1,500		
	3,70,500		3,70,500

Adjustments :

- 1) Outstanding productive wages Rs. 300.
- 2) Rent and Insurance includes insurance Rs. 800 paid for one year ending on 30th June 2012.
- 3) Provide for doubtful debts on debtors at 5 %.
- 4) Depreciate building by 5% and machinery by 10%.
- 5) Goods worth Rs. 1,250 were distributed as free samples for which no record has been made in the books.
- 6) Stock on 31st March 2012 was valued at Rs. 28,000 while its market value was Rs. 38,000.

From the above information – Prepare

- A) Trading and Profit and Loss Account.
- B) Balance Sheet as on 31-3-2012.

3. A) What is Bank Reconciliation Statement ? Why it is prepared ? 10
- B) On 1st Jan. 2012 the cash book of Amar showed a bank balance overdrawn to the extent of Rs.1,170. On comparing his cash book with pass book he finds that :
- 1) A cheque for Rs. 250 sent to Bhaskar has not been entered in cash book.
 - 2) Bank charges of Rs. 170 at 31st Dec. 2011 were not entered in cash book at all.
 - 3) The Bank has debited Amar's account with a cheque for Rs. 110 received from Sudhakar which had been returned dishonoured. The fact of dishonour was not shown in the cash book.
 - 4) The bank column on the receipt side of the cash book was found to be under cast by Rs. 100.
 - 5) Unpresented cheques amounted to Rs. 2,320. Prepare Bank Reconciliation statement as on 1st Jan. 2012. 10
4. A) Explain the role of cash book in subsidiary books. State the types of cash book. 10
- B) Enter the following transactions in cash book with cash and discount columns only, presuming that all receipts are banked and that all payments are made by cheques. 10

March. 2012

- 1 Opening cash balance – Rs. 30,000
- 2 Sold goods for cash Rs. 6,000
- 3 Paid to Suresh on account Rs. 2,400 in full settlement of his account for Rs. 2,500
- 5 Purchased goods for cash Rs. 4,000
- 7 Purchased furniture for office use Rs. 15,000 and safe for personal use Rs. 3,000.
- 10 Received cash Rs. 3,800 from Vasant on account and we allowed him discount of Rs. 200.
- 12 Paid Rent Rs. 800
- 14 Received for cash sales cash Rs. 5,000 and a cheque for Rs. 3,500
- 18 Paid for stationary Rs. 250
- 20 Received interest on investment Rs. 1,000.

- Q4) a) Define the concept of hardware and software in detail. [8]
b) Define primary memory? Explain different types of primary memory in detail. [8]
- Q5) a) Explain keying and pointing input devices. [8]
b) Explain the different components of windows operating system. [8]
- Q6) a) Define computer. Explain various characteristics of computer. [8]
b) Discuss ASSCII and EBCDIC computer codes in detail. [8]
- Q7) a) Explain applications of computer in various fields. [8]
b) Solve the following : [8]
i) $(42)_{10} = (?)_2$ ii) $(952)_{10} = (?)_8$
iii) $(0.812)_{10} = (?)_8$ iv) $(1101110)_2 = (?)_8$
- Q8) Write a short note on (Any four) : [16]
a) Printer
b) Scanner
c) LCD
d) Evolution of computer
e) High level languages
f) Binary system

Seat No.	
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**B.C.A. (Faculty of Commerce) (Part - I) (Semester - I) Examination,
October - 2014**

PRINCIPLES OF MANAGEMENT (Revised)

Sub. Code : 59571

Day and Date : Friday, 31 - 10 - 2014

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) Explain the levels of management and its functions. [16]

Q2) What is planning? State the steps in planning process. [16]

Q3) a) Explain in brief, importance of organising function. [8]

b) Describe in brief, formal and informal organisation. [8]

Q4) What is staffing? State the scientific selection procedure. [16]

Q5) a) State the significance of motivation. [8]

b) Explain in brief, 'Need Hierarchy theory of Abraham H. Maslow.' [8]

Q6) What is meant by Leading? State the functions of a leader. [16]

Q7) a) State in brief, importance of controlling. [8]

b) Explain in brief, steps in control process. [8]

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

a) Management as a profession

b) Contribution of F.W. Taylor

c) Sources of Recruitment

d) Techniques of control



Seat No.	
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B.C.A. (Part - I) (Semester - I) Examination, November - 2014

FINANCIAL ACCOUNTING (Revised)

Sub. Code : 59572

Day and Date : Saturday, 01- 11 - 2014

Total Marks : 80

Time : 3.00 p.m. to 6.00 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.

4) Figures to the right indicate full marks.

Q1) From the following trial balance prepare trading, profit & loss account for the year ending 31/3/2012 and Balance sheet as on that date of Shri : Parag. [16]

Trial balance as on 31/3/2012

Particulars	Debit	Credit
Stock on 1 st April 2011	92,000	
Purchases & Purchase return	3,00,400	1,200
Cash in hand & at bank	52,120	
Freehold premises	77,200	
Trade expenses	1,680	
Printing, stationery	3,280	
Professional charges	560	
Commission received		6,600
Investment as on 1 st April @ 10%	8,000	
Interest on Investment		400
Sundry Debtors & Creditors	72,000	59,340

P.T.O.

Y - 24	Wages	50,000	
6. a)	Salaries	28,000	
b)	Capital		2,28,000
7. a)	Income tax	3,200	
	Discount allowed & received	12,600	9,200
t	Sales return & sales	1,100	4,17,900
8. /	Bills Receivable	6,400	
	Office furniture	6,100	
	Rent, Rates & Insurance	8,000	
		<u>7,22,640</u>	<u>7,22,640</u>

Adjustments:

- Provide for wages Rs. 10,000 and outstanding rent Rs. 1,000.
- Writeoff depreciation at 5% on freehold premises and 10% on furniture.
- Prepaid insurance Rs. 400.
- Stock on 31/3/2012, is B. 1,04,000.

Q2) XYZ Ltd. purchased machinery on 1st October 2010 for Rs. 1,40,000 and decided to depreciate the machinery at 10% p.a. under reducing balance method. On 1st April 2011 a machinery was purchased for Rs. 2,00,000. On 1st October 2012, a machinery purchased on 1st October 2010 was sold for Rs. 1,00,000 and on 31st March 2013 a new machinery was purchased for Rs. 2,50,000. Prepare machinery Account and Depreciation Account for three years ending 31st March 2013.

Q3) What is accounting ? Explain briefly the users of accounting information.

Q4) What are the accounting conventions ? Explain any two conventions of accounting.

Q5) What is Trial balance ? Explain the rules for the preparation of trial balance. [16]

Q6) Journalise the following transactions in the books of Mr. Shashikant. [16]

Date	Particulars
January 2014 1	Started business with cash of Rs. 5,00,000
3	Goods purchased for cash Rs. 2,20,000
4	Goods sold for cash Rs. 1,35,000
8	Goods purchased on credit from Mr. Shashank for Rs. 1,85,000
12	Sold goods on credit to Mr. Subhash for Rs. 55,000
20	Received Rs. 35,000 from Mr. Subhash
25	Withdraw Rs. 25,000 from business for personal use
31	Paid salary Rs. 8,000, Rent Rs. 3,500 and sundry expenses Rs. 2,200.

Q7) From the following information prepare bank-reconciliation statement as on 31st December 2012. [16]

- Balance as per pass book Rs. 20,000 (Cr. balance)
- Cheque deposited but not credited Rs. 4,500.
- Cheque issued which is not encashed Rs. 3,500.
- Life insurance premium paid by bank Rs. 1,000.
- Interest on Fixed deposit, credited in the bank pass book only Rs. 600.
- Cheque issued to Munna, Rs. 3,000 which is dishonoured.
- Direct deposit made by Babu in our A/c Rs. 5,000.
- Pass book shows - bank charges Rs. 300.
- Cheque of Rs. 1,500 deposited on 25th December was dishonoured.
- There was a wrong credit in the cash books Rs. 400.

Q8) Write short answers (Any Two) :

Y - 247

6. a) |

b)

7. a)

b)

8. A

- a) What are the basic factors that influence the determination of the amount of depreciation.
- b) Distinguish between Trial balance and Balance - sheet.
- c) "Purchase book and purchase return book" Explain briefly.
- d) Explain the meaning and significance of "Going Concern Concept" and "Business Entity Concept".



Seat No.	
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B.C.A. (Part - I) (Semester - I) (Revised) Examination, Nov. - 2013
COMPUTER APPLICATION IN STATISTICS COMMERCE
(Paper - 103) (Old)

Sub. Code : 55806

Day and Date : Tuesday, 26 - 11 - 2013

Total Marks : 100

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

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

Q1) a) What is tabulation? Sketch the format of statistical table and explain clearly the essentials of a good table. [10]

b) Define [10]

i) Frequency Distribution.

ii) Class frequency make a frequency table for the following data taking the class limits of exclusive type and a class interval of 3 units each.

15, 17, 23, 14, 13, 19, 15, 17, 15, 12, 16, 18, 21, 15, 20, 12, 9

14, 17, 16, 15, 13, 22, 20, 22, 17, 21, 19, 18, 16, 19, 11, 18, 10, 10

Q2) a) What is average? What are the requirements of good average? How does mean satisfy the requirements of good average? [10]

b) Following distribution gives the distribution of mothers according to their age.

Age in years	15-19	20-24	25-29	30-34	35-39	40-44
No. of mothers	1	12	20	15	8	4

Find mean and median age. [10]

Q3) a) Define [10]

i) Q.D.

ii) S.D.

iii) C.V.

What are the merits and demerits of std. deviation.

