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BCA SEM I
17-18
Question Papers

Roll. No.:_____

Total No. of Questions: 5

Total No. of Pages: 02

B.C.A. Semester End Examination, April 2017

MANAGEMENT FUNCTIONS (BCA403)

Duration: 2 Hours

Max. Marks: 50

Instruction: 1) All Questions are Compulsory

2) Figures to right indicate marks

3) Start each new question on a fresh page

Q.1.A) 1. Answer the following multiple choice questions.   (5*1 =5)
    (i)Strategic planning is done by_____
        a) Top managers of the firm
        b) Middle level managers
        c) Supervisory managers
        d) None of the above

    (ii)_____ is a way getting results achieved by others through sharing of authority and
    responsibility:
        a) Ordering   c) Mandating
        b) Directing   d) Delegating

    (iii) The contingency theory suggests
        a) One method of management is suitable in all situation
        b) Autocratic managers achieve the best results
        c) People are more important than any other material resources
        d) Management style should change according to situations

    (iv) Adequate motivation of employees results in:\
        a) Fostering in-disciplines among the subordinates
        b) Boosting the morale of the subordinates
        c) Decreasing the productivity of subordinates
        d)   All of the above
    (v) Establishing standards,comparing actual results with standards and taking corrective
    actions are the steps included in the process of.
    a) Directing   c) Planning
    b) Coordinating   d)Controlling

    Q1.A.2) Explain the features of centralization of authority.   (5*1=5marks)

1

Q.1.Z) Answer the following questions in brief.   (5*1 =5 marks)

1) 1. (i) Identify the best definition of planning
   a) Setting organizational objectives and means of achieving them
   b) The core activity of planners and planning department
   c) Devising ways of achieving objectives
   d) Setting organizational objectives

(ii) Organisation is a process of
   a) Identifying and grouping of work to be performed
   b) Defining and delegating the responsibility and authority
   c) Giving commands and scrutinizing output
   d) None of the above
   e)

(iii) Which of the following is reward power
   a) Leader can exert power because of his position
   b) Leader can punish staff for non compliance of rules
   c) Leader can reward staff for achievement of goals
   d) Leader has power because of expert knowledge

(iv) Directing function of management embraces activities of :
   a) issuing orders to subordinates
   b) supervising subordinates
   c) guiding and teaching the subordinates
   d) All of the above

(v)The first step in decision making is to:
   a) Establish priorities
   b) Establish specific goals and objectives
   c) Identify and define problem
   d) Determine sources of the problem

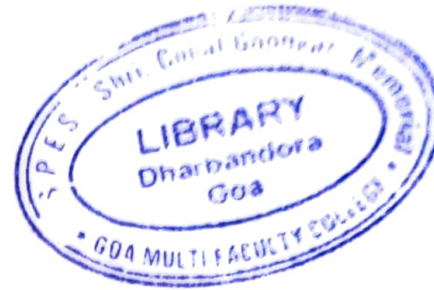Q.1.Z.2) Explain any five types of decision making.

    (5 marks)

Q.2.B) Explain the process of Communication and barriers to effective communication.

OR   (10 marks)

Q.2.Y) Explain advantages and Disadvantages of Management by Objectives. (10 marks)

2

Q.3.C) Explain the essentials of an effective control system. (10 marks)

OR

Q.3.X) What is Delegation? Explain the blocks of effective delegation. (10 marks)

Q.4. D)Explain Mc. Gregor's theory of X and Y. (10 marks)

OR

Q 4.W) Explain the features and importance Decision making? (10 marks)

Q.5.E) Explain the features and advantages of planning. (10 marks)

OR

Q.5 V) Distinguish between leadership and management (10 marks)

*****************************All the Best********************************

Roll. No.:_____

Total No. of Questions: 5

Total No. of Pages:

B.C.A. Semester End Examination, April 2017

COST ACCOUNTING

Duration: 2 Hours

Max. Marks: 50

Instruction: 1) All Questions are Compulsory

2) Figures to right indicate marks

3) Start each new question on a fresh page

Q.1.A) What is Cost Accounting ? Explain the classification of cost.   (10 marks)

OR

Q.1.Z) Explain the importance of material Control.

Q.2.B) What is Labour Turnover? Suggest Measures to reduce Labour Turnover. (10 marks)

OR

Q.2.Y) Explain the following for five marks each.   (10 marks)

(a) Halsey's Premium Plan

(b) Differential piece rate system

Q.3.C) Following was the expenditure on a contract for Rs.600000 commenced in January,2010:
          (10 marks)

Materials Rs.120000, Wages Rs. 160000, Plant Rs.20000, Business Charges Rs.10000 Cash received on account to 31st Dec 2010 amounted to Rs.240000 being 80 % of the work certified, the value of materials in hand on 31-12-2010 was Rs.10000. Wages outstanding amounted to Rs.5000. Prepare the Contract account for 2010 showing the profit to be credited to the year's profit and loss account. Plant is to be depreciated at 10 %.

OR

Q.3.X)Vastra Limited produces cotton textiles during the month of April. These garments go through three stages of production before they are ready to sale. In each process 12% of the product is lost due to spoilage or wastage which is sold further at Rs 200 per kilo.

The following details are furnished to you.   (10 marks)

(P.T.O)

1

	Process I	Process II	Process III
Passed on to the next process	75%	50%	-
Sent to warehouse for sale	25%	50%	100%

The following expenses were incurred:

	Process I		Process II		Process III	
	Amount(Rs)	Unit(kilo)	Amount(Rs)	Unit(kilo)	Amount (Rs)	Unit (kilo)
Raw material	1,40,000	2000	42,000	1680	1,50,000	280
wages	24,000	-	19000		20,000	
expenses	13,000		8000		4,000	

Prepare process cost account.

Q.4.D) The following is the summary of the receipts and issues of material in a factory during December 2007. Prepare Store Ledger according to First In First Out Method and Last in First out method for December 2007.   (10 marks)

1ˢᵗ December opening balance 250 units @ Rs.20 per unit
3ʳᵈ december Issue 50 units
4ᵗʰ December Issue 100 units
13ᵗʰ December Received from supplier 100 units @ Rs.22 per unit
14ᵗʰ December returned 15 units @ Rs.20 per unit
16ᵗʰ December issue 50 units.
20ᵗʰ December Received from supplier 200 units @ Rs.20.25 per unit
24rd December Issue 100 units.
25ᵗʰ December Received from supplier 120 units @ Rs.20.5 per unit
26ᵗʰ December Issue 75 units
27ᵗʰ December Returned 12 units @ Rs.20.50 per unit
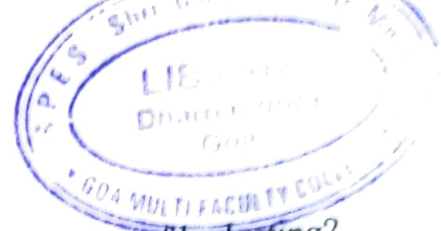28ᵗʰ December Received from supplier 100 units @ Rs.25 per unit.

OR

Q.4.W) Two components A and B are as follows: (10 marks)

Average consumption	100 units
Normal usage	100 units per week each
Minimum usage	50 units per week each
Maximum usage	125 units per week
Reorder quantity	A: 600 units
	B: 800 units
Re-order period	A: 4 to 6 weeks
	B: 2 to 4 weeks
Maximum lead time for emergency purchases	A: 2 week
	B: 4 weeks

Calculate for each component:
(a)Reorder level (b) Minimum level (c) Maximum level (d)Average stock level and (e)Danger level.

Q.5.E) What is budgetary control. Explain the advantages and disadvantages of budgeting?

(10 marks)

OR

Q.5.V) What is Breakeven Analysis? Explain the objectives and advantages of BEP analysis.

(10 marks)

*************************BEST OF LUCK*********************************

Roll No: _____

Total No. of Questions: 3   Totatal No. of pages: 1

B.CA Semester End Examination, October 2017

Environmental studies

Semester: I   Duration: 1 Hours   Max. Marks: 25

_____

_____

Q.1 A) Explain any four of the following   ANY FIVE   (5x3=15)

a. Effects of Damn on environment

b. Mineral resource

c. Land desertification

d. Natural oil

e. Concept and structure of ecosystem

f. Oxygen cycle

Q.2. A) In-Situ conservation of biodiversity   (5)

OR

X) Desert ecosystem   (5)
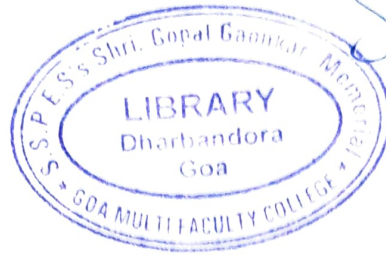
Q.3. A) Explain the term Thermal energy   (5)

OR

X) Elucidate on soil conservation   (5)

Sem-2017

Roll No:

Total No. of Questions: 05

Total number of pages: 03

B.C.A Semester End Examination
Business Accounting (BCA103)
Semester I   Oct 2017

Duration: 2 Hrs.

Maximum Marks: 50

Instructions 1) All questions are compulsory
2) Figures to the right indicate maximum marks allotted.
3) Provide sufficient margin space in the answer-book for recording marks.
4) Enter the appropriate main & sub-question numbers in the answer-book.
5) Show important working notes as fair work.
6) From Q.No.2 to Q.No5 answer A or X questions.

Q.1. Write short notes on: (5*2=10 marks)

a) Matching concept

b) Consistency concept

c) Internal users of accounts

d) Golden Rules of Accounting

e) Vouchers.

Q.2.A) Prepare necessary Vouchers for following transaction in the books M/s Marvel Traders for the month of October 2017. Their bankers are Dena Bank margao.   (10marks)

1. 1st Oct paid to Sushma retailers Rs 60,000 as per bill no. 210 for purchase of goods.

2. 2nd Oct paid for hire of local taxi to Ramu Rs 750.

3. 3rd Oct paid to Preetam and Sons through cheque number 567234 issued from Dena Bank Margao Rs 25,000

4. 4th October Received from Lucky retailers payment worth Rs 48000 for goods sold via bill no. 1527.

5. 5th Received a cheque from Red Shark traders a cheque of Rs 125,000 drawn on ICICI Sanquelim.

Q.2.X Enter the following transactions in the respective subsidiary books of M/s Wonderworman Ltd for the month of October 2017. **(10marks)**

1) Cash in hand Rs 80,000
2) Cash received from Ultron traders Rs 62000.
3) Wages paid Rs 30,000
4) Paid for Cash purchases 44,000.
5) Purchased from M/s Seema enterprise goods on credit worth Rs 65,000 at 20% Discount.
6) Purchsed from M/s Kapoor & sons goods worth Rs 25,000 on credit.
7) Sold to FBB retailers goods worth Rs 60,000 on credit at 10% discount
8) Sold to Aastha retailers goods worth Rs 55,000 on credit .
9) Goods sold to M/s Bhagya were returned due damage worth Rs 15000.
10) Goods returned to M/s Sawera worth Rs 10,000 due poor quality.

Q.3.A) M/s Staywell Traders purchased a Furniture worth 18,00,000, on 1/4/2011. They bought additional furniture worth 6,00,000 on 31/6/2012. The depreciation rate they charged is 10% per annum under Original Cost method. Show machinery account and depreciation account for Five years.
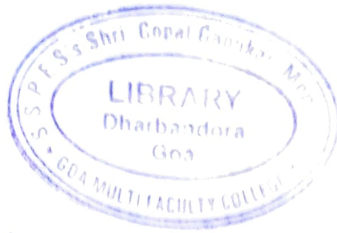
(10marks)

OR

Q.3.X) On 1/4/2011 Green Lantern Ltd purchased a machinery for 35,00,000. On 1/07/2013 they purchased a new machinery costing 8,00, 000. The depreciation rate is 15% per annum. They follow reducing balance method for Depreciation. Accounting year closes on 31st march every year. Prepare machinery account and Depreciation A/c for five years. **(10marks)**

Q.4.A) Explain the various tools and the techniques used in Financial statement Analysis.
(10marks)

OR

Q.4.X) Explain the various types of financial statement Analysis.

(10marks)

Q.5.X) M/s Victory Ltd is registered with an Authorised Capital of ` 40,00,000 divided in to 80,000 shares of `100. (10) They issued 40,000 shares and all these shares were subscribed. The share amount is payable as follows: **(10 marks)**

Application Rs 10

Allotment Rs 20

Share 1st Call Rs 30

Share Final Call Rs 40.

Pass necessary journal entries.

Q.5.A) from the trial balance of M/s Ironman Pvt. Ltd, prepare a balancesheet for the year ending 31/03/2016.

(10 marks)

Particulars	Amount	Particulars	Amount
Advances to employees	2,50,000	Equity Share Capital	7,50,000
Cash at Bank	1,75,000	Capital Reserve	3,00,000
Furniture & Fixture	2,50,000	Loan from SBI	2,25,000
Premises	7,50,000	Provision for Employees Welfare Fund	1,77,500
Patents	3,75,000	Proposed Dividend	1,00,000
Advance Tax	17,500	Short term loan from bank	3,25,000
8% Govt. Bonds	1,00,000	Unpaid dividend	34,000
Stock in trade	2,75,000	Profit & Loss A/c	1,72,500
Sundry debtors	60,000	Bills Payable	33,500
Bills payable	25,000	Sundry Creditors	60,000
		Outstanding salary	1,00,000
	22,75,000		22,75,000

*****************ALL THE BEST********************

3

Roll No:

Total No: of Questions: 5

Total No: of pages: 3

BCA Semester End Examination

Basic Mathematics

Semester No : I

Duration: 2 Hrs.

Maximum Marks: 50

Instructions: 1) All Questions are Compulsory.

2) Figures to right indicate marks.

3) Start each new question on a fresh page.

4) Non programmable calculators are allowed.

Q.1 A) Answer the following   (5x1=5)

  i. a^m x a^n is _____

  ii 0! is _____

  iii. $\log \dfrac{m}{n}$ = _____

  iv. The sum of first n term of an A.P. is_____

  v. Area of a circle is _____

B) Answer the following   (5x1=5)

  i. The value Cos 90 is _____

  ii The roots of the equation $x^2 - x - 2$ are _____

  iii. a^1 = _____

  iv. For an G.P 3, $\dfrac{3}{2}, \dfrac{3}{4}, \dfrac{3}{8}$ what is the value of a and r ?

  v. Area of rectangle is_____

Q.2. Answer the following:

A) i) Find inverse of the matrix A

If $A = \begin{bmatrix} 4 & -11 \\ 3 & -8 \end{bmatrix}$

ii) For an A.P. with $T_{10} = 16$, Find S_{19}.

OR

(10)

B) i) If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ show that $A^2 - 5A - 2I$ is a zero matrix.

ii) The nth term of a G.P. with $a = 6$ and $r = 7$, is 14406. Find n and corresponding S_n.

(10)

Q.3. Answer the following:

A) i) Examine the continuity of f at $x = 2$ if

If $f(x) = x^2 - x - 1$ $0 \leq x < 2$

      $= 4x + 1$ $2 \leq x \leq 4$

ii) If $A = (1, -2)$, $B = (-2, 3)$ and $C (2, -5)$ from a $\triangle ABC$, find the equation of altitude AM.

OR

B) i) Find $\lim\limits_{x \to 2} \dfrac{\sqrt{x+6}-3}{x^2-9}$

(10)

ii) The x- intercept of a line is double its y- intercept. If it passes through $(2, -4)$, find its equation.

Q.4. Answer the following:

(10)

A) i) Find $\dfrac{dy}{dx}$ for the following:

a) $y = \dfrac{x+5}{x-9}$

b) $y = (x+2)(x^3-4)$

ii) Find the square root of $5 + 12i$.

B) i) Find $\dfrac{dy}{dx}$ for the following:

a) $y = (3x + 5)^{10}$ b) $y = (2x - 5)^2$ **(10)**

ii) a) Find the product of $(1 + i)$ and $(1 - i)$

b) Evaluate $\dfrac{i}{5+i}$

Q.5. Answer the following:

A) i) Evaluate a) $\int \dfrac{x-3}{x} \, dx$ b) $\int \dfrac{1}{\sqrt{x}} \, dx$ **(10)**

ii) Show that $\begin{bmatrix} a+b+2c & a & b \\ c & b+c+2a & b \\ c & a & c+a+2b \end{bmatrix} = 2(a+b+c)^3$

B) i) Find $\int_{1}^{3} \dfrac{x^2 + 3x + 2}{x + 1} \, dx$ **(10)**

ii) Solve the following equations by using Cramer's rule

$3y - 4z = 0$, $x - y - z + 1 = 0$, $5x + y + z - 2 = 0$

Roll No:

Total no. of Questions: 05

F.Y.B.C.A Semester End Examination

Title of the Paper with Paper No: _PROBLEM SOLVING & PROGRAMMING CONCEPTS_
(BCA101)

Duration: 2 hours

Semester No: 1

Maximum Marks: 50

Instructions:
1. _All questions are compulsory._
2. _Figures to the right indicate full marks._

Instructions: 1. _All questions are compulsory._
2. _Figures to the right indicate full marks._

1.

A. Match the following operators in C with their type: [5 x 1 Marks]

i. *	a)	Logical Operator
ii. !	b)	Increment Operator
iii. &	c)	Relational Operator
iv. ++	d)	Arithmetic Operator
v. ==	e)	Bitwise Operator

B. Answer the following: [5 x 1 Marks]
   a. What is the use of 'clrscr()' in C?
   b. What is "sizeof" operator in C?
   c. What is user defined function?
   d. Name the storage classes in C.
   e. What is the syntax to use conditional operator?

2. Answer the following:
   a. What are the steps in problem solving?   [2 Marks]
   b. Demonstrate implicit and explicit typecasting for int and float data types. [3 Marks]
   c. Write an algorithm to find the larger of two numbers.   [5 Marks]

3. Answer the following:
   a. What are logical operators? Give suitable examples.   [2 Marks]
   b. Differentiate between for loop and do-while loop.   [3 Marks]
   c. Explain the different symbols used in a flowchart with an example to print first ten natural numbers.   [5 Marks]

4. Answer the following:

   a. Compare break and continue in C.

   b. Explain any three string functions with suitable examples.

   c. Write a note on arrays in C.

5. Answer the following:

   a. Write a note on input and output statements in C.

   b. Compare function call by value and call by reference(3 points).

   c. Rectify the following C program:

```c
//Program to Check Palindrome
#include <stdio.h>
void main()
{
  int n, reversedInteger == 0, remainder, originalInteger;

 print("Enter an integer: ");
 scan("%d", n);
 originalInteger = n;
 // reversed integer is stored in variable
 while( n!=0 );
 {
   remainder = n%10;
   reversedInteger = reversedInteger*10 + remainder;
   n = 10/n;
 }

// palindrome if orignalInteger and reversedInteger is equal
if(originalInteger = reversedInteger);
  print(" is a palindrome.", originalInteger);
else
  print(" is not a palindrome.", originalInteger);
}
```

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Roll No: _____

Total No. of Questions: 3   Totatal No. of pages: 1

B.CA Semester End Examination, October 2017

Environmental studies

Semester: I   Duration: 1 Hours   Max. Marks: 25

Instructions: : 1.All questions are compulsory

2. Figures to right indicates marks

3. Start each new question on a fresh page

Q.1 A) Explain any four of the following   ANY FIVE   (5x3=15)

a. Effects of Damn on environment

b. Mineral resource

c. Land desertification

d. Natural oil

e. Concept and structure of ecosystem

f. Oxygen cycle

Q.2. A) In-Situ conservation of biodiversity   (5)

                    OR

X) Desert ecosystem   (5)

Q.3. A) Explain the term Thermal energy   (5)

                    OR

X) Elucidate on soil conservation   (5)

B.C.A. Semester End Examination

Computer Organization and Architectures (BCA102)

Semester I

Duration: 02 Hrs.

Maximum Marks: 50 M arks

Instructions: 1) All questions are compulsory Question.
2) Figures to the right indicate maximum marks allotted.
3) Provide sufficient margin space in the answer-book for recording marks.
4) Enter the appropriate main & sub-question numbers in the answer book.

1. i) Define the following terms:

[5 x 1]

   a.   Program Counter

   b.   DDR RAM

   c.   Software Poll

   d.   Memory Buffer Register

   e.   LOAD operation

ii) Answer each of the following in one line:

[5 x 1]

   a.   Give one point of difference between Unified Cache and Split Cache.

   b.   What is the binary equivalent of the hexadecimal number $(1FC)_{16}$?

   c.   What is binary equivalent of the decimal number $(16)_{10}$?

   d.   What is Hardwired technique for control unit implementation?

   e.   What is the function of Execution Unit in 8086 microprocessor?

2. **Answer the following:**

   a.   Write a note on System Bus.   [2]

   b.   What is an Operating System and explain its functions?   [3]

   c.   Give a brief overview of generation of computers.   [5]

3. **Answer the following:**

   a.   Differentiate between SRAM and DRAM.   [2]

   b.   With an example, explain any three Logical Operations.   [3]

   c.   With respect to external memory, explain the following: [5]

      i. Types of optical memory

      ii. Magnetic disks

4. **Answer the following:**

    a. Write the micro operations for fetch cycle. [2]

    b. Explain the concept of micro programming to implement a control unit. [3]

    c. Explain in detail programmed I/O and interrupt driven I/O techniques. [5]

5. **Answer the following:**

    a. Explain the functions performed by the Control Unit. [2]

    b. Give a brief overview on architecture of 8086 microprocessor. [3]

    c. What is Instruction Pipelining and explain its various stages. [5]

Roll No:

Total No. of Questions: 05

Total number of pages: 03

B.C.A Semester End Examination
Business Accounting (BCA103)
Semester I Oct. 2017

Duration: 2 Hrs.

Maximum Marks: 50

Instructions
1) *All questions are compulsory*
2) *Figures to the right indicate maximum marks allotted.*
3) *Provide sufficient margin space in the answer-book for recording marks.*
4) *Enter the appropriate main & sub-question numbers in the answer-book.*
5) *Show important working notes as fair work.*
6) *From Q.No.2 to Q.No5 answer A or X questions.*

Q.1. Write short notes on: (5*2=10 marks)

a) Matching concept

b) Consistency concept

c) Internal users of accounts

d) Golden Rules of Accounting

e) Vouchers.

Q.2.A) Prepare necessary Vouchers for following transaction in the books M/s Marvel Traders for the month of October 2017. Their bankers are Dena Bank margao.   (10marks)

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Q.2.X Enter the following transactions in the respective subsidiary books of M/s Wonderwoman Ltd for the month of October 2017. **(10marks)**

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2) Cash received from Ultron traders Rs 62000.
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Q.3.X) On 1/4/2011 Green Lantern Ltd purchased a machinery for 35,00,000. On 1/07/2013 they purchased a new machinery costing 8,00, 000. The depreciation rate is 15% per annum. They follow reducing balance method for Depreciation. Accounting year closes on 31st march every year. Prepare machinery account and Depreciation A/c for five years. **(10marks)**

Q.4.A) Explain the various tools and the techniques used in Financial statement Analysis. **(10marks)**

OR

Q.4.X) Explain the various types of financial statement Analysis.
(10marks)

2

Q.5.X) M/s Victory Ltd is registered with an Authorised Capital of ` 40,00,000 divided in to 80,000 shares of `100. (10) They issued 40,000 shares and all these shares were subscribed. The share amount is payable as follows: (10 marks)

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Allotment Rs20

Share 1st Call   Rs30
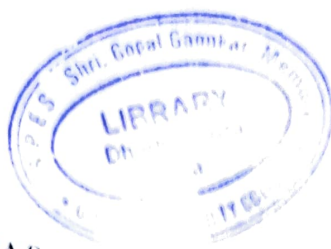
Share Final Call Rs40.

Pass necessary journal entries.

Q.5.A) from the trial balance of M/s Ironman Pvt. Ltd, prepare a balancesheet for the year ending 31/03/2016. (10 marks)

Particulars	Amount	Particulars	Amount
Advances to employees	2,50,000	Equity Share Capital	7,50,000
Cash at Bank	1,75,000	Capital Reserve	3,00,000
Furniture & Fixture	2,50,000	Loan from SBI	2,25,000
Premises	7,50,000	Provision for Employees Welfare Fund	1,77,500
Patents	3,75,000	Proposed Dividend	1,00,000
Advance Tax	17,500	Short term loan from bank	3,25,000
8% Govt. Bonds	1,00,000	Unpaid dividend	34,000
Stock in trade	2,75,000	Profit & Loss A/c	1,72,500
Sundry debtors	60,000	Bills Payable	33,500
Bills payable	25,000	Sundry Creditors	60,000
		Outstanding salary	1,00,000
	22,75,000		22,75,000

****************ALL THE BEST*******************

BCA Semester End Examination October 2018

COMPUTER ORGANISATION AND ARCHITECTURE (BCA102)

Duration: 2 Hrs.   Semester: I

Instructions: 1) All questions are compulsory   **Maximum Marks** 50
2) figure to the right indicate full marks
3) draw neat diagram wherever necessary

Q 1 A Answer the following in one or two lines

(5*1 5)

1. List any two features of first generation of computer.
2. Define sequential Access.
3. Name the two types of cache address.
4. Name the three principles of I/O technique.
5. Find 2's complement of 11.

Q 1 B Answer the following

(5*1 =5)

1. Name the types of operands used in machine instruction.
2. State subtraction rule in computer arithmetic.
3. Differentiate between assembler and compiler of 8086.
4. Explain the purpose of using accumulator in 8086.
5. What are the branching operations used to control the flow of program execution?

Q 2 Answer the following

(10)

A. List the advantages of using transistor in second generation of computer

B. Explain any three types of I/O commands that an I/O module may receive when it is addressed by a processor   (2)

C. Draw and explain instruction cycle state diagram   (3)

(5)

Q 3 Answer the following

(10)

A. Explain any two types of Read Only Memory.

B. Describe in brief any 3 major functions of an I/O module.   (2)

C. Explain in detail direct mapped cache technique with diagram.   (3)

(5)

Q 4 Answer the following (10)

A. Explain in brief working of computer keyboard. (4)
B. Differentiate between direct and indirect addressing modes. (3)
C. Explain any two types of operations in machine instruction. (3)

Q 5 Answer the following (10)

A. Explain program counter and stack pointer register in 8086 (2)
B. Explain execute cycle with any two machine instruction example. (3)
C. Explain block diagram of control unit. (5)