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BCA SEM I

Question Papers

Roll No:

P.P. Mary's name
Total No of Questions

BCA Semester End Examination

BASIC MATHEMATICS 104

Semester: I



Duration: 2 Hrs.

Maximum Marks: 50

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

Q.1). Fill in the blanks:

(10×1=10)

- a) If $\tan \theta = \frac{5}{12}$, then $\operatorname{cosec} \theta =$ _____.
- b) If $f(x) = 4x^3 - 1$, then $\int_2^3 f(x) dx =$ _____.
- c) If $y = x \tan x$, then $y' =$ _____.
- d) Prime factorization of 880 is _____.
- e) $\gcd(210, 49) =$ _____.
- f) $\lim_{x \rightarrow 0} \frac{\tan x}{x} =$ _____.
- g) If $A = \begin{bmatrix} 2 & -1 \\ 4 & 3 \end{bmatrix}$, then $|A| =$ _____.
- h) In a H.P. $a = \frac{1}{2}$ and $b = \frac{1}{3}$, then $t_4 =$ _____.
- i) The centre of the circle $x^2 + y^2 - 4x - 7y + 10 = 0$ is _____.
- j) Let $z_1 = -\sqrt{3} + 3i$ and $z_2 = \sqrt{3} - i$, then $z_1 \bar{z}_2 =$ _____.

Q.2)

- a) Find the area of a triangle whose sides are $2\hat{i} + 3\hat{j} - 2\hat{k}$ and $3\hat{i} - \hat{j} + 2\hat{k}$. (3)
- b) Let $z = 5 - 2i$, verify $z\bar{z} = |z|^2$. (2)
- c) If $A = \begin{bmatrix} 5 & 7 \\ 4 & -1 \end{bmatrix}$ find $4A^2 + 3A - 2I$. (5)

OR

- d) Find unit vector perpendicular to $2\hat{i} - \hat{j} + 2\hat{k}$ and $10\hat{i} - 2\hat{j} + 7\hat{k}$. (3)
 - e) Use De Moivre's theorem to prove that $\cos 2\theta = \cos^2 \theta - \sin^2 \theta$. (2)
 - f) Solve the following system of equations by using Cramer's Rule. (5)
- $$5x + 2y - 7 = 0, \quad 6x - 5y - 38 = 0$$

Q.3)

- a) Check whether the vectors $a = 3\hat{i} + 2\hat{j} + \hat{k}$ and $b = \hat{i} + \hat{j} + 3\hat{k}$ are perpendicular. (2)
- b) The diameter of a cylinder is 0.4m and height is 10cm. Find its curved surface area, total surface area and volume. (3)

c) Mother divided the money among Joy, Maria and Julie in the ratio 2:3:5 respectively. If Maria got 150, then find the total amount of money and the money received by Joy and Julie. (5)

OR

d) Find angle between the two vectors $a = -i + 2j + k$ and $b = -3i - 6j + k$. (2)

e) The diameter of a cone is 14m and its slant height is 9m. Find its lateral surface area, total surface area and volume. (3)

f) The sum of three numbers is 120. If the ratio of the first to second is 3:4 and that of the first to the third is 3:5, then find the three numbers. (5)

Q.4)

a) Let $z_1 = -1 + 3i$ and $z_2 = 2 + 3i$. Verify $z_1 z_2 = z_2 z_1$. (2)

b) Find the three numbers in G.P. whose sum is 35 and product is 1000. (3)

c) Check whether $(-1, 3)$, $(2, 5)$ and $(6, -1)$ are the vertices of a right angled triangle. (5)

OR

d) Find cube roots of unity. (2)

e) Find the three numbers in A.P. whose sum is 33 and product is 1320. (3)

f) Check whether the points $(-1, 5)$, $(-2, 7)$ and $(1, 6)$ are collinear. (5)

Q.5)

a) Let $f(x) = \frac{x^2 - 9}{x - 3}$ then find $\lim_{x \rightarrow 3} f(x)$. (2)

b) Let $(x) = x^2 + 2$ and $(x) = 3x + 2$. Find $g(x)$. (2)

c) Show that $yy'' - y' \cos x + 1 = 0$ if $y = \sin x$. (3)

d) Evaluate $\int_0^{\log 3} \frac{e^x}{1 + e^x} dx$. (3)

OR

e) Check whether $f(x) = \begin{cases} \frac{\sin 2x}{x}, & x \neq 0 \\ 1, & x = 0 \end{cases}$ is continuous at $x=0$. (2)

f) Find $\lim_{x \rightarrow 3} \frac{x^3 - 27}{x - 3}$. (2)

g) If $y = \tan x$ then show that $y'' - 2yy' = 0$. (3)

h) Evaluate $\int_0^2 (x^2 - 2^x) dx$. (3)

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Roll No: _____

Total No: of Questions: 06
Total No: of pages: 05

B.C.A. Semester End Examination (CBCS)

Business Accounting

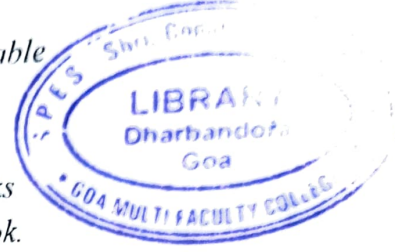
Semester-I

Maximum Marks: 60 Marks

Duration: 02 Hrs.

Instructions:-

- i. Question No. 1 to 6 are Compulsory, however internal choice is available
- ii. Figures to the right indicate full marks allotted to each question
- iii. Start each new question on a fresh page
- iv. Provide sufficient margin space in the answer book for recording marks
- v. Enter the appropriate main & sub-question numbers in the answer-book.
- vi. Use of non-programmable and non-scientific calculators are allowed



Q.1. A) Fill in the blanks

(5x1=05 marks)

- a) Dual entry accounting system owes its origin to _____
- b) Provision for bad debts is made due to the principle of _____
- c) Depreciation is charged on _____
- d) Goodwill is classified as _____ asset.
- e) On Rs. 100 share, the amount payable as to Rs. 20 on application, Rs 45 on allotment, Rs. 25 on first call and Rs. 30 on final call, the issue is at _____

B) Write short notes on:

(5x1=05 marks)

- a) What is money measurement concept?
- b) Write in brief the classification of accounts.
- c) What is a sinking fund method of depreciation?
- d) What do you mean by forfeiture of shares?
- e) Write any two points on scope of accounting.

Q.2.A) Explain in detail any five accounting standards.

(10 marks)

OR

B) 'Accounting as a financial information system'. Explain

(10 marks)

Q.3 A) Journalize the transactions given below in the books of Mahi for the month of April 1 2018.

(10 marks)

April 2018:

- 1st : Mahi started his business with Rs. 1,00,000/-.
 2nd : Mahi purchased furniture for Rs.5,000/- and computer for Rs. 20,000/- .
 5th : Goods purchased from M/s P&K for Rs. 25,000/-
 7th : Goods sold to M/s Nitya & Co. worth Rs. 10,000/-
 8th : Deposited Rs. 10,000/- in bank
 10th : M/s Nitya & Co. returned defective goods worth Rs. 1,500/-
 12th : Paid for office stationary Rs. 2,000/- Rent Rs 3,000/- and staff salary Rs. 14,000/-
 25th : Paid insurance premium Rs. 7,000/- by Cheque
 27th : Received commission Rs. 4,000/-
 30th : Paid interest 1,000/-

OR

B) Record and show the following transactions in the various subsidiary books for the month of February 2018 in the books of Mr. Raj

(10 marks)

February 2018

- 1st : Purchased on credit from M/s Alpha electric Co. Ltd. 20 fans @ 2000/- each less 10% Trade discount and 70 Electric oven @ Rs.1000/- each , less 10% Trade discount
 5th : Bought on credit from M/s Beta electric Co. Ltd. 100 Electric Kettle @ 500 each and 20 Electric heaters @ 400 each.
 10th : Returned to M/s Smriti electric Co. Ltd. 2 pieces of VCR @15000/- each and 3 pieces of Fans 2200 each.
 15th : Sold to M/s Manik trader 5 fans @ 2300, less 5% trade discount and sold to Sushil trader 10 Electric heater @ 550 each
 25th : Returned by Capita electronics 3 pieces of Electric heater costing Rs. 500/- each

Q.4 A) A firm purchases a machinery for Rs. 1, 00,000/- on 1st January 2013. Installation charges Rs. 20,000/- . The Scrap value of machinery is Rs. 10,000/- at the end of its useful life of 5 Years. You are required to prepare a Machinery account for five years, charging depreciation according to Straight line method.

(10 marks)

OR

B) Vikas & Company purchased a machinery by cheque for Rs. 1, 00,000/- on 1st January 2016. The estimated scrap value of the machinery is Rs. 20,000/-. At the end of the year, depreciation provided at the rate of 10% per annum by diminishing balance method. Show the machinery account for the first two financial years which is ending on 31st December every year. When no provision for depreciation account is maintained.

(10 marks)

Q.5 A) From the following information for the year ended 31st March 2018 is extracted from the books of M/s Metallic Co.Pvt. Ltd.

(10 marks)

M/s Metallic Co. Pvt. Ltd.
 Trial Balance as on 31/03/2018

Particulars	Amount	Particulars	Amount
Depreciation on premises	8,000	Sales	13,40,000
Material consumed	8,00,000	Equity share capital	8,00,000
Opening stock	40,000	Outstanding wages	6,000
Salaries	2,00,000		
Bad debts	3,800		
Bonus to employees	30,000		
Interest on loan	16,000		
Depreciation on furniture	18,000		
Conveyance	4,000		
Loss on sale of Machinery	20,000		
Insurance	16,200		
Sales returns	40,000		
Provision for tax	60,000		
Machinery	6,00,000		
Contribution to P.F	90,000		
Premises	1,60,000		
Computer	40,000		
	21,46,000		21,46,000

Additional information:

i. Closing stock was valued at Rs. 1, 20,000/-.

Prepare a statement of Profit and Loss account as per revised schedule III of the Companies Act.

OR



3

P.T.O.

B) From the following Trial Balance of Vishal Ltd. Prepare the Balance sheet of the company as on 31st March as per schedule III of the Companies Act

(10 marks)

Trial Balance as on 31st March 2018

Particulars	Debit (Rs)	Particulars	Credit (Rs)
Advances to employees	4,00,000	Equity share capital	5,00,000
Cash at bank	3,14,320	Capital reserve	60,000
Furniture & fixture	7,50,000	Loan from BOI	8,00,000
Premises	41,09,940	Provisions for employees welfare fund	6,00,000
Patents	10,00,000	Proposed dividend	1,64,000
Discount on issue of shares (Unwritten off)	25,000	Short term borrowings from bank	4,90,200
Trade receivables	3,66,140	Unpaid dividend	64,800
Advance Tax	50,000	Profit & Loss A/c	42,980
8% Govt. bonds	3,36,000	Bills Payable	85,000
Stock in trade	3,55,600	Sundry creditors	1,00,020
	77,07,000		77,07,000

Q.6 A) Moonlight Trading Company Ltd. Incorporated with an authorized capital of Rs. 80,00,000 divided into equity shares of Rs 100 each. The company offered to the public for subscription on 40,000 shares payable as follows:

On application Rs. 30/- per share, on allotment Rs. 40/- per share, on first call Rs. 20/- per share and on final Call Rs. 10/- per share

The shares were fully subscribed by the public and application money duly received. The Board of Director decided to make allotment. All monies due were duly received with an exception of 8000 shares of Mr. Yash who failed to pay final call money. Later these shares were forfeited. You are required to pass necessary journal entries in the books of Moonlight Trading Company Ltd.



OR

(10 Marks)

P.T.O.

B) M/s Star Trading Company Limited invited application from the public for 50,000 equity shares of Rs. 100 each payable as follows:

On application	Rs. 30 per share
On allotment	Rs. 40 per share
On first & final Call	Rs. 30 per share

All the shares were duly subscribed and the amount received except of Mr. Sharukh who held 500 shares failed to pay the first and final call. Later these shares were forfeited and reissued to Mr. Salman at Rs. 75/- per share, taken as fully paid. You are required to pass necessary journal entries in the books of Star Trading Company Limited.

(10 marks)



Roll No:

Total No of Questions : 3

Total No: of pages: 1



B.CA Semester End Examination

ENVIRONMENTAL STUDIES

Semester: I

Maximum Marks: 25

Duration: 1Hrs.

- Instructions: 1. All questions are compulsory
2. Figures to the right indicates marks

- Q.1. Answer any FIVE of the followings (5×1=5)
- What is the importance of environmental studies?
 - Explain the term ecosystem?
 - Write a note on endangered species?
 - Write down the classification of aquatic ecosystem resources?
 - Write any two methods of water conservation.
 - Explain Ecological Succession
 - What are the characteristics of Desert ecosystem?
- Q2A. Discuss the consequences of mining activities (10)
- OR
- Q2B. Why is it necessary to create public awareness? (10)
- Q3A. Discuss the different types of Ecological pyramids (10)
- OR
- Q3B. Write a short note on Macro-Ecosystem and Micro-ecosystem you have studied during your field visit (10)



Roll No:

Total No: of Questions: 5

Total No: of pages: 2

B.CA Semester End Examination

Business Accounting

Semester: I

Duration: 2 Hrs.

Maximum Marks: 50

- Instructions**
- 1) All questions are compulsory
 - 2) Figures to the right indicate maximum marks.
 - 3) Start each new question in a fresh page.

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

- a) Objectives of Accounting
- b) Users of Accounting
- c) Golden rules of accounting
- d) Vouchers
- e) Money Measurement Concept

Q.2.X) From the following transactions of Beta Ltd pass the necessary journal entries in the journal book. (10)

- f) Started business with Cash Rs.15,000, Machinery Rs.15,000, and Building Rs.20000
- g) Purchased goods from Amir worth Rs.50,000
- h) Sold good to Arun worth Rs.10,000
- i) Paid Wages for the month of Rs.1000
- j) Transfer fees received of Rs.500

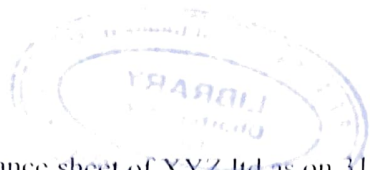
OR

Q.2 Y) What are Accounting concepts? Explain any Five Accounting concepts (10)

Q.3.X) On 1st April 1993 ABC Ltd purchased a machine for Rs.1,00,000. The expected life of the machine is 4 years. Desiring to replace the machine on the expiry of its life the company establishes a sinking Fund. Investments are expected to realize 3% interest. On 31st March 1997 investments were sold for Rs.75,000. Sinking Fund table show that Re.0.2320 invested each year will produce Re.1 at the end of 4 years at 5%. (10)

OR

Q.3.Y) What is Depreciation? Explain the various Methods of Charging Depreciation (10)



Q.4.X) From the following balance sheet of XYZ Ltd as on 31-3-2003 Prepare a statement of changes in working capital. (10)

Balance sheet

Liabilities	2002	2003	Assets	2002	2003
Share capital	100000	125000	Cash balance	30000	47000
Preference share capital	100000	125000	Debtors	60000	60000
Creditors	40000	20000	Bills payable	60000	55000
Bills payable	30000	25000	stock	40000	45000
General reserve	10000	23000	building	90000	111000
	280000	318000		280000	318000

OR

Q.4.Y) Distinction between Fund flow and Cash Flow statement (10)

Q.5.X) From the following information of Ashok Ltd prepare cash Flow statement for the year ending 31-12-2017 (10)

- Purchase of land Rs.48,000
- Cash Receipts from customers Rs.25,02,000
- Income tax paid Rs.86,800
- Issue of Share capital Rs.84,000
- Sale of equipments Rs.36,000
- Dividend paid Rs.72,000
- Payment to suppliers Rs.21,15,200
- Purchase of Building Rs.2,88,000
- Cash and cash equivalent at the beginning Rs.60,000

OR

Q.5.Y) A Ltd company issued 10000 shares of Rs.10 each payable as Rs.3 on application, Rs.2 on Allotment and Rs.5 on Final call. The public applied for 8000 shares which were allotted. All the monies due on shares were received except the final call on 500 shares. Pass the necessary Journal entries in the books of A ltd. (10)



Roll No:

Total No. of Questions: 05

No. of Pages: 03

BCA Semester End Examination
Business Accounting
Semester I

Duration: 2 Hrs.

Maximum Marks: 50

Instructions: 1) All questions are Compulsory.

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

Q.1.A) Write a note on the "Money Measurement Concept" of Accounting. (5*2=10)

B) What do you mean by the "Going Concern Concept" of accounting?

Q.2.A) Journalize the following transactions in the books Mr Kapil. (10 marks)

- i. Mr. Kapil started business with cash Rs 5, 20,000, furniture worth Rs 4, 00,000 and machinery worth Rs 2, 80,000.
- ii. Purchased good from Miss Anushka for Rs. 6, 20,000/-
- iii. Paid expenses worth Rs 50,000/-
- iv. Received interest on bank deposit Rs 1, 60,000/-.
- v. Purchased a motor vehicle for Rs 7, 20,000/-
- vi. Sold good worth Rs 5, 00,000 for cash.
- vii. Introduced additional capital in the business Rs 2, 80,000/-

OR

Q.2.X. What is a voucher. Elaborate its uses and draw a specimen for any two vouchers.

(10marks)

Q.3.A. M/s Zeal enterprise purchased a machinery costing Rs 8, 00,000 on 1st January 2010. Another machinery was purchased by them on 1st July 2012 for 6, 40,000. Depreciation is charged at 10% p.a. on both the machines. Straight Line method of depreciation is used.

(10 marks)

Prepare machinery account and Depreciation account. Also prepare working notes if required.

OR

Q.4.A The following trial balance is extracted from the books of M/s Goldluck Ltd for the year ending 31/03/2016. (10 marks)

Particulars	Rs	Particular	Rs
Salaries	250000	Equity share capital	700000
Purchases	100000	sales	600000
Sundry debtors	20000	Sundry creditors	70000
Land	300000	Interest received	30000
Furniture	100000	Transfer fees	60000
Rent	50000		
Opening stock	40000		
Advertisements	100000		
Patents	150000		
Machinery	350000		
Total	14,60,000	Total	14,60,000

Adjustments:

- Closing stock Rs 20000.
- Depreciate furniture at 10%, machine at 5% and patents at 10%.
- Provide for outstanding salary Rs 20, 000.

Prepare the statement of profit and loss account and Balance sheet as on 31st march 2016.

OR

Q.4.X) Explain what is company final accounts also explain how they are useful. (10 marks)

Q.5.A) Explain the different categories of share capital.

(10 marks)

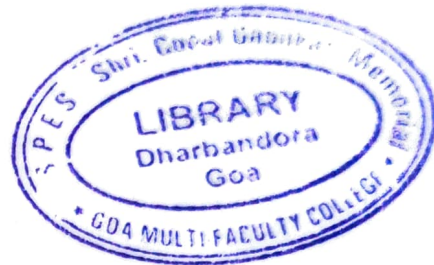
OR

Q.5.X From the following information of XYZ ltd. Prepare cash flow statement for the year ended 31-12-2014 using direct method:

(10 marks)

Purchase of land Rs.48000
 Receipts from customers Rs.380000
 Issue of shares Rs.80000

Dividend paid Rs.15000
Purchase of building Rs.280000
Sale of Machinery Rs.25000
Cash payment to suppliers Rs.750000
Issue of debentures Rs.100000
Investment in shares Rs.40000
Interest paid Rs.5000
Income tax paid Rs.10000
Cash at the beginning of the year Rs.60000



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

Roll No:



Total No: of Questions: 05

Total No: of pages: 02

BCA Semester End Examination

COMPUTER ORGANISATION AND ARCHITECTURE (BCA 102)

Semester: I

Duration: 2 Hrs.

Maximum Marks: 50

- Instructions:** 1) All questions are compulsory
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 the four basic function of computer.
2. Differentiate between volatile and non-volatile memory.
3. What is cache miss and cache hit in memory system?
4. What is the importance of using transducer in an external device?
5. List the advantages of using immediate addressing mode.

Q 1 B Answer the following

(5*1=5)

1. Perform binary subtraction of 13 and 4.
2. State overflow rule in computer arithmetic.
3. Name the six general purpose registers in 8086.
4. Name any four flags in 8086.
5. Define machine language.

Q 2 Answer the following

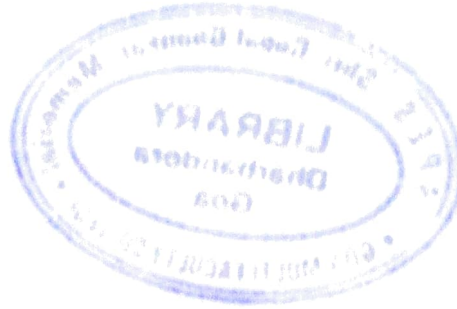
(10)

- A. Explain any two processor registers. (2)
- B. Peripherals are not directly are not connected to system bus. Give reasons. (3)
- C. Explain in detail bus structure. (5)

Q 3 Answer the following

(10)

- A. Write a short note on read operation and write operation of dynamic random access memory (2)
- B. Explain the working of direct memory access module (3)
- C. Describe the benefit of using RAID structure and explain two levels of RAID structure (5)



Q 4 Answer the following

(10)

A. Draw a neat diagram of external device block.

(2)

B. Perform addition of numbers in two's complement representation

(3)

1) -7 and 5

2) 5 and 4

3) -4 and -1

C. Describe in brief register addressing and register indirect addressing.

(5)

Q 5 Answer the following

(10)

A. Draw the flowchart to add two 8 bit number (i.e A and D) and store 8-bit result in register C.

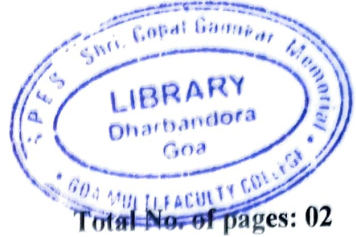
(2)

B. List the three steps process that leads to characterization of the control unit.
explain any one step.

(3)

C. Explain in detail the sequence of micro-operations executed during fetch cycle.

(5)



Roll No:

Total No. of Questions: 05

Total No. of pages: 02

B.C.A. Semester End Examination
Computer Organization and Architectures (BCA102)
Semester I

Duration: 02 Hrs.

Maximum Marks: 50 Marks

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

1. i) Define the following terms: [5 x 1]

- a. Multi-core
- b. DVD
- c. Parallel Interface
- d. Memory Address Register
- e. STORE operation

ii) Answer each of the following in one line: [5 x 1]

- a. Give one point of difference between Write Through and Write Back policy.
- b. What is hexadecimal equivalent of the binary number $(101101101)_2$?
- c. What is Immediate Addressing mode?
- d. What is a Micro program?
- e. What is the function of Bus Interface Unit in 8086 microprocessor?

2. Answer the following:

- a. Explain the basic functions performed by the computer. [2]
- b. What is an external device? Elaborate on the categories of external devices. [3]
- c. With a neat diagram explain instruction cycle state diagram with interrupts. [5]

3. Answer the following:

- a. Write a short note on RAID technology. [2]
- b. Solve the following problems using 2's complement addition. [3]
 - i. 10 and 13
 - ii. -8 and 2
- c. Give a detailed description on types of ROM memory. [5]



4. Answer the following:

- a. Write the micro operations for interrupt cycle. [2]
- b. With a neat diagram, explain the structure of Control Unit. [3]
- c. What is DMA and explain with diagram DMA configurations. [5]

5. Answer the following:

- a. Explain the role of Control Unit in computer system. [2]
- b. With an example, explain any three 8086 data transfer and arithmetic instructions. [3]
- c. Give a detailed description on the types of Addressing Modes. [5]



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. $(a^m)^n$ is _____

ii. $1!$ is _____

iii. $\log(mn) =$ _____

iv. The n th term of an G.P. is _____

v. Area of a circle is _____

(5x1=5)

B) Answer the following

i. The value of $\sin 90$ is _____

ii The formula for quadratic equation is _____

iii. $a^0 =$ _____

iv. $(x-2)^2 =$ _____

v. Area of a square is _____



Q.2. Answer the following:

A) If $A = \begin{bmatrix} 1 & -2 \\ 4 & 3 \end{bmatrix}$, $B = \begin{bmatrix} 5 & 6 \\ 7 & 8 \end{bmatrix}$, $C = \begin{bmatrix} -2 & 0 \\ 8 & 3 \end{bmatrix}$ (10)

Verify that, $A(B - C) = AB - AC$

ii) For an G.P. $1, \frac{1}{4}, \frac{1}{16}, \frac{1}{64}, \dots$. Find the value of T_n and S_n when $n = 3$.

OR

B) i) Find Inverse of matrix A if

$$A = \begin{bmatrix} 1 & 3 \\ 2 & 5 \end{bmatrix} \quad (10)$$

ii) If $T_5 = 35$ and $T_9 = 59$, then find its n^{th} term.

Q.3. Answer the following: (10)

A) i) $\lim_{x \rightarrow 2} \left[\frac{1}{x^2 - 5x + 6} + \frac{1}{2x^2 - 7x + 6} \right]$

ii) If A (2, -2) and B (5, y), find the possible value of y so that $AB = 5$.

OR

B) i) If f is continuous at $x = 2$, where (10)

$$\begin{aligned} f(x) &= x^2 - x + 1 & 0 \leq x \leq 2 \\ &= 5x + a & 2 < x \leq 4 \end{aligned} \quad \text{then find a.}$$

ii) Write condition of concurrency and show that the lines $3x + y = 2$, $5x + 2y - 3 = 0$ and $2x - y = 3$ are concurrent.

Q.4. Answer the following: (10)

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

a) $y = x \log x$

b) $y = (3x + 5)^2$



ii) Find the square root of $8 - 6i$.

OR

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

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

ii) a) Find the product of $(-2 + i)$ and $(2 + 3i)$

b) Evaluate $\frac{2+3i}{1-9i}$

Q.5. Answer the following:

A) i) Evaluate a) $\int (x - 2)(x + 7) dx$ b) $\int x\sqrt{x} dx$ (10)

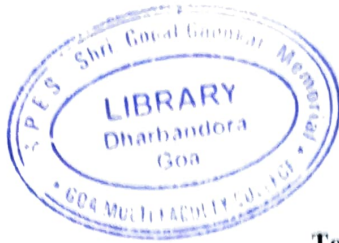
ii) Find the value of a determinant $\begin{vmatrix} 13 & 16 & 19 \\ 14 & 17 & 20 \\ 15 & 18 & 21 \end{vmatrix}$

OR

B) i) Find a) $\int_2^3 \log x dx$ b) $\int_{-2}^2 x dx$ (10)

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

$$x + 3y = 13, \quad 4x - 5y - 1 = 0$$



Roll No:

Total no. of Questions: 05

Total No: of pages: 02

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

Title of the Paper with Paper No: PROBLEM SOLVING & PROGRAMMING CONCEPTS
(BCA101)

Semester No: 1

Duration: 2 hours

Maximum Marks: 50

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.

A. Match each of the following computer generations to its technology: [5 x 1 Marks]

- | | |
|-----------------------|-------------------------|
| I. First generation | A. Microprocessor chips |
| II. Second generation | B. Vacuum tubes |
| III. Third generation | C. Integrated circuits |
| IV. Fourth generation | D. Transistors |
| V. Fifth Generation | E. Robotics |

B. Answer the following: [5 x 1 Marks]

- a. Name any two functions related to file manipulation in C.
- b. Which in-built string function can return a negative value?
- c. Name any two header files used in C programming.
- d. Define "Pointer".
- e. What is meant by a void function?

2. Answer the following:

- a. Name and explain the types of errors in C with examples. [2 Marks]
- b. Write a note on relational operators in C. [3 Marks]
- c. Why is a rhombus used in a flowchart? Draw a flowchart to add two numbers taken as input. [5 Marks]

3. Answer the following:

- a. Show the syntax of do-while loop with example. [2 Marks]
- b. Differentiate between structure and union (3 points). [3 Marks]
- c. Write an algorithm to reverse a given number. [5 Marks]

4. Answer the following:

- a. What are the different file opening modes in C? [2 Marks]
- b. Write a note on dynamic memory allocation. [3 Marks]
- c. What is a structure? Show how an array of structures can be defined, initialized, input and output. [5 Marks]



5. Answer the following:

- a. List the various storage classes in C. [2 Marks]
- b. What will be the value of x and y after executing the following instructions: [3 Marks]

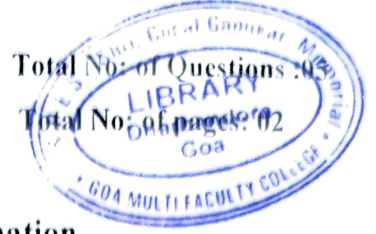
- int x=1, y=2;
- int *ip;
- ip=&x;
- y=*ip;
- x=ip;
- *ip=3;

Assume x resides at memory location 100, y at 200 and ip at 1000.
Show how the values change after each instruction.

- c. Rectify the errors in the following program: [5 Marks]

```
#include <stdio.h>
void main() // Program to check whether the number is prime or not
{
    int n, i, flag == 0;
    print("Enter a positive integer: ");
    scanf("%d",n);
    for(i=2; i<=n/2; ++i)
    {
        if(n%i==0); // condition for nonprime number
        {
            flag=1;
            break;
        }
    }
    if (flag=0);
    print("%d is a prime number.",n);
    else
    print("%d is not a prime number.",n);
}
```

Roll No: _____



F.Y. BCA Semester End Examination

PROBLEM SOLVING AND PROGRAMMING CONCEPTS (BCA101)

Semester: I

Duration: 2Hrs.

Maximum Marks: 50

Instructions as per subject:

- 1) All questions are compulsory
 - 2) Figures to the right indicate marks
-

Q1 A) Complete the statement by using appropriate words(s).

(5x1 = 5)

- a) _____ facility is required by programmers for proper documentation and maintenance of programs.
- b) _____ symbol is used for showing mathematical calculation, or any type of processing in data.
- c) _____ allow programmers to directly access memory addresses where variables are stored.
- d) _____ lacks visual representation of programming constructs like flowcharts.
- e) _____ function invokes the same function from which it has been called.

Q.1.B) Answer the following questions briefly:

(5x1 = 5)

- a) Define the term debugging in C.
- b) Outline one major difference between algorithm and program.
- c) Mention any one hardware and software technology used in 4th generation of computers.
- d) Define the term flowchart.
- e) Name any two functions used to allocate memory dynamically.

P.T.O.

Q2) Answer the following questions:

- a) State any two salient features of 3rd generation of programming languages.
- b) Write an algorithm to find the factorial of a given number.

2 Marks
3 Marks

x) State the rules for constructing variable names.

OR

y) Explain the usage of the following pre-processors: i. #include ii. #define

5 Marks
5 Marks

Q3) Answer the following questions:

- a) State the use of gets() and puts() functions.
- b) Draw a flowchart to check whether a number entered by user is prime or not.
- x) Explain with example the working of while loop and do-while loop.

2 Marks
3 Marks
5 Marks

OR

y) Explain with example the working of switch-case construct in C.

5 Marks

Q4) Answer the following questions:

- a) Convert $(11001101)_2$ to Octal.
- b) Write a short note on file opening modes and basic file operations available in C with appropriate example.
- x) Compare Structures with Unions.

2 Marks
3 Marks
5 Marks

OR

y) Define array. Explain how to access array elements giving appropriate example.

5 Marks

Q5) Answer the following questions

- a) Demonstrate the usage of following storage classes in C
 - i. Automatic
 - ii. External
- b) List and explain the steps involved in problem solving
- x) Explain the usage of strlen() and strcat() functions with example.

2 Marks
3 Marks
5 Marks

OR

y) Explain the following function calls with example:

- i. Call by value
- ii. Call by reference

5 Marks

*****END*****

Roll No:

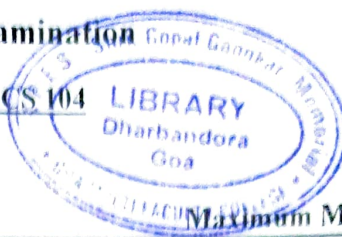
Total No of Questions: 5

Total No of pages: 2

BCA Semester End Examination

BASIC MATHEMATICS 104

Semester: I



Maximum Marks: 50

Duration: 2 Hrs.

Instructions: 1. Attempt all questions

2. Figures to the right indicate full marks.

Q.1). Fill in the blanks:

(10×1=10)

- a) If $\tan \theta = \frac{5}{12}$, then $\operatorname{cosec} \theta =$ _____.
- b) If $f(x) = 4x^3 - 1$, then $\int_2^3 f(x) dx =$ _____.
- c) If $y = x \tan x$, then $y' =$ _____.
- d) Prime factorization of 880 is _____.
- e) $\operatorname{gcd}(210, 49) =$ _____.
- f) $\lim_{x \rightarrow 0} \frac{\tan x}{x} =$ _____.
- g) If $A = \begin{bmatrix} 2 & -1 \\ 4 & 3 \end{bmatrix}$, then $|A| =$ _____.
- h) In a H.P. $a = \frac{1}{2}$ and $b = \frac{1}{3}$, then $t_4 =$ _____.
- i) The centre of the circle $x^2 + y^2 - 4x - 7y + 10 = 0$ is _____.
- j) Let $z_1 = -\sqrt{3} + 3i$ and $z_2 = \sqrt{3} - i$, then $z_1 \bar{z}_2 =$ _____.

Q.2) Answer the following questions.

- a) Find the area of a triangle whose sides are $2\hat{i} + 3\hat{j} - 2\hat{k}$ and $3\hat{i} - \hat{j} + 2\hat{k}$. (3)
- b) Let $z = 5 - 2i$, verify $z\bar{z} = |z|^2$. (2)
- c) If $A = \begin{bmatrix} 5 & 7 \\ 4 & -1 \end{bmatrix}$ find $4A^2 + 3A - 2I$. (5)

OR

- d) Find unit vector perpendicular to $2\hat{i} - \hat{j} + 2\hat{k}$ and $10\hat{i} - 2\hat{j} + 7\hat{k}$. (3)
- e) Use De Moivre's theorem to prove that $\cos 2\theta = \cos^2 \theta - \sin^2 \theta$. (2)
- f) Solve the following system of equations by using Cramer's Rule. (5)
- $$5x + 2y - 7 = 0, \quad 6x - 5y - 38 = 0$$

Q.3) Answer the following questions.

- a) Check whether the vectors $a = 3\hat{i} + 2\hat{j} + \hat{k}$ and $b = \hat{i} + \hat{j} + 3\hat{k}$ are perpendicular. (2)
- b) The diameter of a cylinder is 0.4m and height is 10cm. Find its curved surface area, total surface area and volume. (3)

- c) Mother divided the money among Joy Maria and Julie in the ratio 2:3:5 respectively. If Maria got ₹150, then find the total amount of money and the money received by Joy and Julie. (5)

OR

- d) Find angle between the two vectors $a = -i + 2j + k$ and $b = -3i - 6j + k$ (2)
- e) The diameter of a cone is 14m and its slant height is 9m. Find its lateral surface area total surface area and volume. (3)
- f) The sum of three numbers is 120. If the ratio of the first to second is 3:4 and that of the first to the third is 3:5, then find the three numbers. (5)

Q.4) Answer the following questions.

- a) Let $z_1 = -1 + 3i$ and $z_2 = 2 + 3i$. Verify $z_1 z_2 = z_2 z_1$. (2)
- b) Find the three numbers in G.P. whose sum is 35 and product is 1000. (3)
- c) Check whether $(-1, 3)$, $(2, 5)$ and $(6, -1)$ are the vertices of a right angled triangle. (5)

OR

- d) Find cube roots of unity. (2)
- e) Find the three numbers in A.P. whose sum is 33 and product is 1320. (3)
- f) Check whether the points $(-1, 5)$, $(-2, 7)$ and $(1, 6)$ are collinear. (5)

Q.5) Answer the following questions.

- a) Let $f(x) = \frac{x^2 - 9}{x - 3}$ then find $\lim_{x \rightarrow 3} f(x)$. (2)
- b) Let $f(x) = x^2 + 2$ and $g(x) = 3x + 2$. Find $f(g(x))$. (2)
- c) Show that $yy'' - y' \cos x + 1 = 0$ if $y = \sin x$. (3)
- d) Evaluate $\int_0^{\log 3} \frac{e^x}{1 + e^x} dx$. (3)

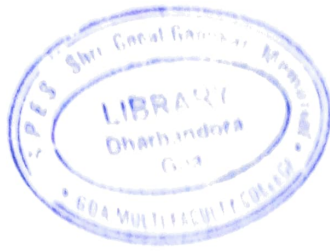
OR

- e) Check whether $f(x) = \begin{cases} \frac{\sin 2x}{x}, & x \neq 0 \\ 1, & x = 0 \end{cases}$ is continuous at $x=0$ (2)

- f) Find $\lim_{x \rightarrow 3} \frac{x^3 - 27}{x - 3}$. (2)
- g) If $y = \tan x$ then show that $y'' - 2yy' = 0$ (3)
- h) Evaluate $\int_0^2 (x^2 - 2^x) dx$. (3)

XXXXXXXXXXXXXX

Roll No:



RIP

Total No: of Questions :05

Total No: of pages: 02

F.Y. BCA Semester End Examination
PROBLEM SOLVING AND PROGRAMMING CONCEPTS (BCA101)
Semester: I

Duration: 2 Hrs.

Instructions as per subject:

Maximum Marks: 50

- 1) All questions are compulsory.
- 2) Figures to the right indicate marks.

- Q1 A) Complete the statement by using appropriate words(s): (5 x 1 = 5)
- a) Incorrect punctuation, incorrect word sequence, undefined terms, and misuse of terms are examples of _____ errors.
 - b) _____ symbol denotes decision or branch to be made.
 - c) <, >, <=, >=, ==, !=, &&, || belongs to a category called _____ operators.
 - d) _____ variables are accessible from anywhere in program.
 - e) Using _____ one can access the memory addresses of the variables.

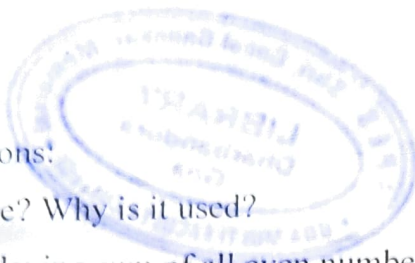
- Q1 B) Answer the following questions briefly: (5 x 1 =5)
- a) Explain the term documentation.
 - b) State any two key characteristics of 5th generation of computers.
 - c) State one advantage and disadvantage of algorithms.
 - d) Outline one major difference between algorithm and flowchart.
 - e) Explain the usage of strlen() and strepy() function.

- Q2) Answer the following questions:
- a) State any two salient features of 2nd generation programming language. 2 Marks
 - b) Write an algorithm to calculate even numbers between 0 and 99. 3 Marks
 - c) State the rules for constructing integer constants. 5 Marks

OR

- Q) Explain the following function calls: i. Call by reference ii. Call by value 5 Marks

P.T.O.



Q3) Answer the following questions:

- a) What is function prototype? Why is it used?
- b) Draw a flowchart for displaying sum of all even numbers.
- x) Using example illustrate the working of odd loop.

2 Marks

3 Marks

5 Marks

OR

- y) Write a short note on Union.

5 Marks

Q4) Answer the following questions:

- a) Convert $(11010111)_2$ to hexadecimal.
- b) Explain the syntax for reading and writing the characters from the file using examples.
- x) Compare arrays and structures in C.

2 Marks

3 Marks

5 Marks

OR

- y) What is String? Explain with example the use of '\0' character in strings.

5 Marks

Q5) Answer the following questions:

- a) Explain any two approaches for solving problems.
- b) Differentiate between the following storage classes in C:
 - i. Register
 - ii. External
- x) Write a short note on Dynamic Memory Allocation.

2 Marks

3 Marks

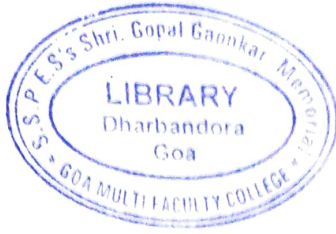
5 Marks

OR

- y) Write a short note on macro expansion pre-processor directive.

5 Marks

*****END*****



Roll No:
Total No. of Questions: 05

Total No. of pages: 02

B.C.A. Semester End Examination
Computer Organization and Architectures (BCA102)

Duration: 02 Hrs.

Semester I

Maximum Marks: 50 Marks

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

1. i) Define the following terms: [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: 5

Total No: of pages: 3

BCA Semester End Examination

Basic Mathematics

Semester No : I

Maximum Marks: 50

Duration: 2 Hrs.

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.

(5x1=5)

Q.1 A) Answer the following

i. $a^m \times a^n$ is _____

ii. $0!$ is _____

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

iv. The sum of first n term of an A.P. is _____

v. Area of a circle is _____

(5x1=5)

B) Answer the following

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 $3, \frac{3}{2}, \frac{3}{4}, \frac{3}{8}$ 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

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

(10)

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

OR

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

(10)

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

Q.3. Answer the following:

(10)

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

$$\begin{aligned} \text{If } f(x) &= x^2 - x - 1 & 0 \leq x < 2 \\ &= 4x + 1 & 2 \leq x \leq 4 \end{aligned}$$

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

OR

B) i) Find $\lim_{x \rightarrow 2} \frac{\sqrt{x+6}-3}{x^2-9}$

(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 $\frac{dy}{dx}$ for the following:

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

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

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



OR

B) i) Find $\frac{dy}{dx}$ 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 $\frac{i}{5+i}$

Q.5. Answer the following:

A) i) Evaluate a) $\int \frac{x-3}{x} dx$

b) $\int \frac{1}{\sqrt{x}} dx$

(10)

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

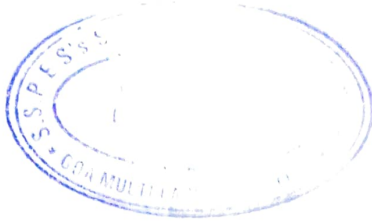
OR

B) i) Find $\int_1^3 \frac{x^2 + 3x + 2}{x + 1} dx$

(10)

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

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



Roll No:

Total no. of Questions: 05

Total No: of pages: 02

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

Title of the Paper with Paper No: PROBLEM SOLVING & PROGRAMMING CONCEPTS
(BCA101)

Semester No: 1

Duration: 2 hours

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: [2 Marks]

- 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: [2 Marks]

- 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:

- Compare break and continue in C.
- Explain any three string functions with suitable examples.
- Write a note on arrays in C.

[2 Marks]

[3 Marks]

[5 Marks]

5. Answer the following:

- Write a note on input and output statements in C.
- Compare function call by value and call by reference(3 points).
- Rectify the following C program:

[2 Marks]

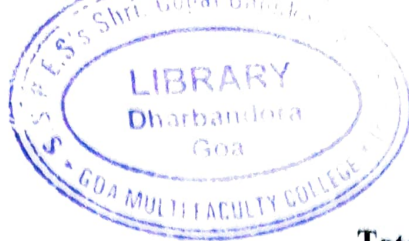
[3 Marks]

[5 Marks]

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



Total No. of Questions: 05
No. of Pages: 03

B.C.A Semester End Examination
Management Accounting
Semester I

Duration: 2 Hrs.

Instructions: 1) All questions are compulsory

Maximum Marks: 50

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

Q.1. A. Explain in brief the functions of management accounting. (5*2=10 marks)

B. Discuss in brief the advantages of Budgetary Control.

Q.2.A. K & K Company produces a single article. Following cost data is given about its product:

Selling price per unit	Rs. 2,000
Marginal cost per unit	Rs. 1,200
Fixed cost per annum	Rs. 8,000

Calculate:

- a) Profit Volume Ratio,
- b) Break-even sales
- c) Sales to earn a profit of Rs. 10,000
- d) Profit at sales of Rs. 60,000
- e) New Break even sales, if sales price is increased by Rs10. (10 marks)

OR

Q.2.X. The following figures for profit and sales are obtained from the accounts of ABC Co. Ltd.

Year	Sales (Rs.)	Profit (Rs.)
2012	40,000	4,000
2013	60,000	8,000

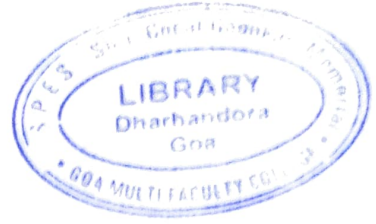
Calculate: P/V ratio;

Fixed Cost; and

Profit at sales Rs. 40,000;

Break-Even Sales

Salesto earn a profit of Rs. 5,000. (10 marks)



Q.3.A. The following is the cost of production for 6,000 units in a factory is given as follows. (10 marks)

Particulars	Per Unit
Raw material	100
Labour	40
Variable overheads	30
Fixed overheads (100000)	20
Administrative expenses (10% variable)	20
Selling expenses (20 % fixed)	12
Distribution expenses (5% variable)	10
Total cost of sales per unit	232

You are required to prepare a budget when the production capacity at 4000 units and 7000 units

OR

Q.3.X) M/s Ashoka Ltd manufactures two products namely A and B. He sells them in two cities of Goa. The following information is given to you. (10 marks)

Particulars	Types	Budgeted Sales	Actual Sales
Panjim	A	800 at Rs 10 each	900 at Rs 10 each
	B	600 at Rs 24 each	500 at Rs 24 each
Margao	A	1200 at Rs 10 each	1300 at Rs 10 each
	B	1000 at Rs 24 each	900 at Rs 24 each

It was found that if the price of product A is increased by Rs 2 it will have a ready market for more sales. Where as if the price of product B is reduced by Rs 2 the sales would increase. It was decided to make the necessary changes.

On the above basis the following estimates are prepared.

Product	% increase	
	Panjim	Margao
A	+ 10	+15
B	+ 20	+ 25

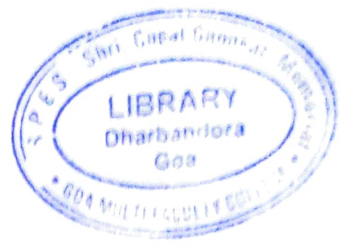
You are required to prepare a budget for sales incorporating the above changes

Q.4.A) What is a management report? And Explain different forms of Reporting. (10 marks)

OR

Q.4.X) What is marginal costing and Explain Advantages of Marginal Costing. (10 marks)

Q.5.A.1) What are the objectives of Management Report. (5*2=10 marks)



2) Explain the classification of Budgets on the basis of time and flexibility.

OR

Q.5.X. 1) Distinguish management accounting from financial accounting. (5*2=10 marks)

2) Explain in Brief the duties of a Management Accountant

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