HIMALAYA DARSHAN COLLEGE

Time: 2 Hrs 45 Min.

Pass Marks: 30 Full Marks: 60

BCA / Second Semester / CAEN 153: English II

PRE-BOARD EXAMINATION

Group 18

Short Answer Questions:

Attempt any sty questions (6x5=30)

patention.

Attentation

Can human be replaced by machine according to Brian Aldiss in his story "Who Can Replace Interost.

- 2. How does the story 'Billennium' picture one of the most burning problems in cities-the shortage of space and the challenge of
- Elaborate, the principle of AIDA in advertisement?
- Discuss the five key rules of good writing of the twenty-first century.
- 5. What are the key points to remember while composing a letter?
- 6. Pick out the premises and conclusions of the following argument:

Sir Edmund Hillary is a hero not because he was the first to climb Mount Everest, but because he never forgot the Sherpas who helped him achieve this impossible teat. dedicated his life to helping build schools and hospitals for them.

-Patre S. Rajashekhar, "Mount Everest," National Geographic, September 2003

Develop the 1000 What are the ways in which argument can be flawed?

8 What are the steps in constructing strong arguments?

Long Answer Questions:

Attempt any two questions: (2x10=20)

that, an international acclaimed motivational speaker, Shiv Khera would be conducting a hall, from 9 Am to 4 PM on 25th of September 2022, with a half hour break in between as that would be decided by key speaker. Please inform that the Company Executive Office session in the company that you work. The venue of the session would be in the company 9 Write a meme to your staffs in your company Nepal Apple Incorporation, informing them (CEO) will also be taking part in the meeting as a participant.

- 16. What is the theme of Jack Williamson's story 'The Metal Man'?
- 11. write an argument supporting your view that "Democracy is a rule of the people, for the

people and by the people".

HIMALAYA DAKSHAN COLLEGE 2081

Full Marks: 60 Pass Marks: 30

Time: 3 Hours

BCA / Second Semester / CACS 151: C-Programming

PRE-BOARD EXAMINATION

Group - B

Attempt any SIX questions: [6*5=30]

- What is Computer Programming? Differentiate between top down and bottom up approach of programming. [1+4]
- Define Keywords and Identifiers in C. Explain rules for defining valid identifiers in C.
- Define array? Write a program to generate following output. [1+4]

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- why function is required in C programming? Write a program to find smallest number from the array using function. [1+4]
 - [2.5+2.5]Explain Call by value and Call by reference with suitable examples.
- Why we DMA instead of array? Explain DMA with suitable example. [1+4]
- What is use of initgraph() in C program? Write a program to draw circle and rectangle using graphic function. [1+4]

Group.

Attempt any TWO questions: [2*10=20]

- What do you mean by Software Development Life Cycle? Explain waterfall model with its advantages and disadvantages. [2+8]
- What is one dimensional array? How it is initialized? Write a C program to find the sum of two matrix of order m×n. [1+1+8]
 - Define structure and union? Write a C program using structure that reads the records of 35 students with members roll, name, address and display the record of students who have obtained greater than 250 marks. [2+8]

HIMALAYA DARSHAN COLLEGE

2081

Full Marks: 60 Pass Marks: 30

Time: 3 Hour

BCA / Second Semester / CMAT154: Mathematics II

PRE-BOARD EXAMINATION

Group - B

Autompt Any SIX Questions:

 $|6 \times 5 = 30|$

1.1.et a function
$$f(x)$$
 defined by $f(x) = \begin{cases} 2x + 1 & for \ x < 1 \\ 4 & for \ x = 1 \end{cases}$, wrify the limit of the function $f(x)$ and $f(x) = \begin{cases} 2x + 1 & for \ x < 1 \\ 3x & for \ x > 1 \end{cases}$

exist at x=1. Is the function f(x) is continuous at x=1? If not, state how can you make it continuous at

- 2. Find the derivative of $f(x) = e^{stnx}$ by using definition.
- 3. Determine whether the integral is convergent or divergent $\int_0^1 \frac{dx}{1+x^2}$
- 4. Using L'hospital rule to evaluate

$$\lim_{x \to \infty} \frac{7x^3 + 4}{2x^3 + 6x + 2}$$

5. Find the interval in which the functions $f(x) = 6 + 12x + 3x^2 - 2x^3$ is increasing or decreasing. Solve the differential equation:

$$\frac{dy}{dx} + 10y = 5$$

and the consistency of the system of equation and solve if possible

$$x_1 + x_2 - x_3 = 1$$
, $2x_1 + 3x_2 + 3x_3 = 3$, $x_1 - 3x_2 + 3x_3 = 2$

Group - C

Attempt Any Two Questions:

[10x2=20]

- 8. State Mean Value Theorem. Give geometrical interpretation of Rolle's Theorem Verify Rolle's theorem for the given function on given interval $f(x) = x^2 - 4$; $-2 \le x \le 2$.
- 9. Using composite rectangular rule, compute $\int_0^z \frac{1}{1+x} dx$ with four intervals. Find the absolute error of approximation from its actual value.
- 10. Use simplex method to maximize

$$maximize$$
: $z = 5x + 3y$
 $subject\ to$:

subject to:

$$2x + y \le 40$$
$$x + 20y \le 50$$
$$x, y \ge 0$$

Himalaya Darshan College

CamScanner

Pre-Board Examination 2081

Code No: CAAC 152 Bachelor in Computer Applications Course Title: Financial Accounting

> Time: 3 hours Pass Marks: 24 Full Marks: 60

Attempt any SIX questions:

 $[6 \times 5 = 30]$

Define accounting. What are its function? [1+4]

Following transactions relating to a husiness were given to you 31st November 2018 Balance as per cash book Rs.35,000

Cheque issued for payment but not presented at bank 3s.5.000

Cheque seat for collection at bank but not credited by the bank Rs.15,000

The bank has paid electricity bill of Rs.4,000 under preapproval from the firm but not A customer directly deposited Rs. 10,000 to the bank but not recorded in cash book.

recorded in cash book

Required: Bank reconciliation statement

1 November 2018 sales of goods to Shr. stha store at Birauta The The following information were provided to you by Gurung Suppliers Mhendra Pool

50 bags Mansuli rice @ Rs. 2,000 each.

30 bags Pokharali masino rice @ 2,500 per bag 70 bags Onion @1500 per bag.

15 November. Sales of goods to Bindabasini store at Bazar

30 bags potato @ Rs.1000 per bag

10 eags Sugar @ Rs.3000 per bag (Trade discount 10%)

20 November, Goods sold on cash to Raj Bhai 15 bags potato @Rs.900 per bag. 28 November, Goods sold to Hirachan store matepani

20 by ge Rive g: Px. ! 500 per by

100Kg Ghee @Rs.800 per Kg 20 bags sugar @ 3000 per bag

 a) Sales book b) Sales account +

14. Furniture purchased on 1st January 2013 at Rs.5,50,000. Another Furniture purchased on 1st july 2016 at Rs. 5,00,000. The Furniture purchased on 1st January 2013 has found unsuitable and sold at Rs. 30,000 on 31st December 2016. The account of the business is closed 31st December each year. The company applied diminishin, method of depreciation@ 10 percent per year. Required: Furniture account for five yours.

15. The following transactions of cash and bank of Tharu Co. for the month of July has given to

2018, July, 1 Opening balance of cash Rs.45,000 and bank Rs.50,000

July 5 Goods purchase at Rs To AD and payment made by cheque

July, 8, A cheque of Rs.40,000 received from a customer and deposited into bank. July 16, Goods sold at Rs.50,000 out of which partial payment received Rs.20,000 in cash.

July, 19 A cheque of Rs.20,000 issued to Himal supplier July,22

Cash sales of Rs.30,000

July, 23. Cash deposited into bank Rs.20,000 July, 27. Rent paid to house over er Ps.13,000 by cheque July, 28 Salary paid in cash Rs.8,000

Electricity bill of Rs.5.00 and telephone bill of Rs.3,000 paid by cheque

Required: Double column cash book with Cash and Bank column. The following material transactions of; manufacturing company is provided to you:

2018, December, 1, Opening stack of raw material 1100 units @ Rs.10 each 2018, December, 5, Purchased 13.1 units @ Rs.9 each.

2018, December, 9, Issued 800 nits.

2018, December, 14, Issued 500 units.

2018, December, 18, Purchased 1,000 units @11 each.

2018, December, 22. Returned in units from issued of 9 December.

Required: Closing stock of material on 31 December, 2018 under First in First out (FIFO) method. [5] 17. The Hydropower company Ltd is issued 1.00,000 shares of Rs. 100 each. The money called for 90,000 only. The Board of director decided that all the share applications allotted in full. on application Rs.20, on allotment Rs.40 and Rs.30 on first call. The application is received All the shareholders paid money in full except Shrijana holds 300 in first call.

Required: Journal entries in the book of company.

Croup-C

[2x10=20]

Attempt any two questions: 19. The following tran actions provided by Kathmandu trader to you.

July 2018 Etarted business on cash Rs.5,50,000 and Furniture Rs.50,000 Defined company. What are the types of company? Justify share differ with debenture.

July, 2-Cash deposited into bank Rs.1,00,000

July, 8 Goods sold on cash Rs. 30,600. July, 6, Goods purchased from Newa store on credit Rs. 1,00,000 and cash Rs. 50,000

Goods sold to Dangol Store at Rs.45,000.

July, 18-Goods of Rs.25,000 rurchase from Tamang store.

July. received Rs.10,000). Payment made by che; ue to Newa Store Rs. 90,000 in full settlement (esscount

July, 25, Cash received from Dangol store as partial payment in cash Rs.24,000 and discount given Rs. 1,000.

July 36, Paid salary in cash Rs. 12,000 and rent by cheque Ks.8,000 July, 28 Furchase of computer for office use at Rs.50,000 and paid made by cheque

20. The Required: a. Journal entries b. Purchase accounts c. Sales account 5+2.5+2.5

| | | 4 44 000 | | |
|----------|--|----------------|--------------------------------|-----|
| | | | | |
| | 00 | 15,000 | To cash at bank | |
| | 00 | 8,000 | To Cash in hand 2 | |
| | 00 | 4,000 | To discount | |
| | 00 | 2,000 | To bad debts 2 | |
| | 00 | 25,000 | To prepaid insurance ρ | |
| Y. | 00 | 30.000 | To debtors P | |
| | 00 | 40,000 | To Furniture 3 | |
| | 00 | 50,000 | To Computer 3 | |
| | 00 | 5,000 | To interest on loan 9 | |
| | 00 | 2,500 | To drawing 身 | |
| A | 00 | 2,000 | To telephone and water p | |
| | 00 | 3,000 | To Office expenses P | |
| 3,000 | 30 By Discount and commission | 4,000 | To Office stationery p | |
| 35,000 | 00 By creditors A | 5,000 | To carriage inward P | |
| 50,000 | 00 By 12 % bank loan | 18,000 | To wages 7 | |
| 80,000 | DO By capital | 1,87,500 | To purchase 7 | |
| 2,76,000 | 00 By sales | 43,000 | To opening stock 7 | |
| Rs. | Particulars | Rs. | Particular | |
| | e following trial balance of a trader as on 31 December 2018 given bellow. | rader as on 31 | following trial balance of a t | ••• |
| | | | | |

Additional information:

4,44,000

- Closing stock found Rs.45,000 T
- Provide depreciation on computer and furniture by 10 percent.
- Prepaid insurance expired by 15,000
- Interest payable Rs.1,000
- Discount and commission receivable Rs.2,000 f Required:
- Trading account
- Profit and loss account

HIMALAYA DARSHAN COLLEGE

2081

Time: 3 Hours

Pass Marks: 30 Full Marks: 60

BCA / Second Semester / CACS 155: Microprocessor & Computer Architecture

PRE-BOARD EXAMINATION

Group - B

Short Answer Questions:

 $[6 \times 5 = 30]$

Attempt any SIX questions:

Explain the opcode fetch machine cycle for I.DA 2000 with timing diagram. What do you understand by program interrupt? Explain its types.

Explain the 8085 Instruction addressing modes with example.

Explain inicroprogram sequencer.

Explain the organization of Microprogrammed Control Unit.

Define control word. Explain the procedure for generating control word for specific operation.

WAP to transfer 10 consecutive data from one block of memory to another. Take necessary assumption for memory location.

Group - C

Long Answer Ouestions:

 $[10 \times 2 = 20]$

8. For the expression y=(A+B) *(C+D) write down the code for one address, two address, and three address instruction formats Attempt any Two Ouestions:

9. Explain the design and control logic of Accumulator.

10. Explain the different data transfer and manipulation instructions with example.