

### INTERNATIONAL COLLEGE OF ENGINEERING & MANAGEMENT

Pre-Board Examination - 2024 (2081)

SET A

BCA, 2<sup>nd</sup> Semester

Subject: CAEN 153: English II

F.M.: 60

Time: 3hrs.

P.M.: 24

Candidates are required to answer the questions in their own words as far as Passible. Figure in the margin indicates full marks.

Group B: Attempt any SIX questions: [6X5=30]

- 11 How do flaws appear in reasoning? Do they deceive the readers? How?
- 12. Lists are used in letters, e-mail, fax messages and memos. What are the major objectives and advantages of using lists and bullets? Explain
- 13 What are the components of arguments? Explain with appropriate examples.
- 14. What is the central idea of the story "The Burning Chrome"?
- 15. Can human be replaced by machine according to Brian Aldiss in his story "Who Can Replace a Man"?
- 16 Identify the flaws in following pieces of reasoning.

A fantastic basketball from could be created if the best player from each of the best teams formed a new club. Basketball would then become an exciting game for fans everywhere.

- 17. For each of the following, write a conclusion you can draw from the statements:
  - a. There is a 'flu epidemic sweeping through the school. Gita, one of the pupils, has a very high temperature and aching muscles, both of which are symptoms of 'flu.
  - b. The winter has been very severe. When we have a severe winter, the daffodils usually come into flower late.
  - c. Jane arrived before Jim, although they set off at the same time, and they were both travelling by car.

#### Group C:

#### Attempt any TWO questions:

[2X10=20]

- What is oral communication? How does technology help in making oral communication effective? Write your answer with different kinds of oral communication modules.
- 19. Write an essay on a tourist destination that you think is specially beautiful, historic or significant. In the essay, specifically mention the location, ways to reach there, and unique experience tourists likely to experience upon the visit.
- 20. The story "The Metal Man" shows technology does not only reduce human efforts, but also can be dangerous to human existence too. Explain your answer with reference to the text

# KATHFORD

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Pre-Board I vanination - 2024 (2081)

SET B

HEA. 2" SEMESTER

F.M.: 60

Subject ( AAC 152 ) manual Accounting

P.M.: 24

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16X5=34n

1) The fathways flatton strains of Kayre Fraders are given below

30-pers Water popule of Rx 100 ench.

Pinchase goods From Vario Stones, Blinkrapit

LAMPS Therann of Hs. 550 colds

Porchaet 7 per fantop from Computer Bazar, Kathmandu @ Rs. 75,000 each

Required: Parchave Book and Purchase Account

Deline Generally Accounting Principles (GAAP) Briefly explain any three principles

13 On April 1, 2022 Balleta Company Purchase equipment for 4 years as coal price Rs 250,000 and also incurred carrier inwards Rt 2000 and installation cost Rs 30,000. On July 1, 2023 the company part the another equipment at a price of the \$100,000. On 10 September 2023 the company sold the equipment at Rs. 200,000 settics

Stalair company closed the account every end of December. The company follow Diminishing Salance method of depressation in 20% рег влючи.

Required: Equipment Account for first 3 years.

Who are the users of accounting information. Why do they need accounting information?

Pokhara Ltd received its has a statement for the month of April, which showed a credit balance of Rs. 25,000. The

Cheque issued 8 = 12.000 during the month of April but not cashed

The bank statement are leox of Rx 2500 for bank service charges for the month.

Interest on investment Rs. 7(00) directly collected by bank.

Two cheques of Rs. 5 000 and Rs. 10,000 were sent for collection into bank in the month of April but not credited

The bank statement rejects a deposit of Rs. 13,000 due to not sufficient funds and charges the company a Rs. 100 fees associated with the rejection.

A check issued to suppliers in the amount of Rs. 5500 was recorded by the company erroneously as a check for

Required: Bank reconciliation statement for KTM Ltd as at 30 April

Ditte		Particular
		Beginning inventory 2,500 units at Rs. 5 per unit
		Purchases 2,000 units at Rs. 6 per unit
		Sales 1,800 units at Rs. 20 per unit
		Purchases 3,000 units at Rs. 8 per unit 2 4000
		Sales 2 800 units at Rs. 20 per unit
	1	Purchases 2,500 units at Rs. 10 per unit
		Sales 2,200 units at Rs 25 per unit

Required: Cost of Goodg'sold and value of ending inventory using FIFO methods.

### The following transaction of Zenith Traders are given below:

- June 1 Balance in hand R5 25,000 and Bank balance Rs. 50,000
- June 2 Deposited in to hank Rs. 10,000
- June 6 Received two cheque from Ram each of R < 50,000.
- June 9 Received each from Mr. Krishtly for good sold in May Rs. 19,000 in full settlement of Rs. 0,000
- June 10 Purchase equipment on credit from Gopal Traders Rs. 35,000
- June 15 One cheque received from Rath on June 8, endorsed to Hari in full settlement of Rs. 51000
- June 20 Drew from the bank for personal expenses Rs, 5,000 and for office use Rs, 20,000
- June 27 Issue cheque Rs. 34,000 in fall settlement for the payment of equipment purchased.

#### Required: Triple column cash book

#### Group C:

#### Attempt any TWO questions:

12X10=201

- 18. JOJO Company was organized on June 1, 2024, for trading businesses. The following transactions occurred during the first month of business.
  - June 2: Received contributions of Rs. 500,000 from each of the two owners of the business in exchange for share of stock.
  - June 5: Purchase goods Rs. 200,000 and partial payment made Rs. 70,000.
  - June 7 Purchased Officer equipment for Rs. 300,000. The agreement with the vendor requires a down payment of Rs. 100,000 and rest on account.
  - lone 10: Paid rent for the month Rs. 40,000 still payable Rs. 10,000.
  - June 16 Sold goods Rs. 250.000 (Costing Rs. 220,000) and received cash partially Rs. 150,000.
  - June 14: Paid salaries to the staff for the month Rs. 40,000 including Rs. 10,000 for next month.
  - June 28: Received gas, electric, and water bills. The total amount is Rs. 10,000.
  - June 29: Received Cash from customer in full settlement after providing 10% discount.

#### Required: Journal entries, T account and Trial balance.

Explain the qualitative characteristic of accounting information.

#### The Trial Balance of Jumia Company as on December 31, 2024 is given below:

Particulars	Debit (Rs.)	Particulars	Credit (Rs.)
Beginning inventory	1.20.000	Sales	13.70.000
Purchase	8.45.000	Account payable	80.000
Carriage inward	25,000	Retained earnings	60.000
Rem expenses	40,000	Capital stock	7.00.000
Account receivable	1,05.000	Notes payable	1.00.000
Land and building	5.00.000	Commission received	60.000
Plant and machinery	3.50,000	10% debentures	40,000
Cash	50,000		
Wages expenses	20.000		
Bad debt expenses	20.000		
5% Investment	60,000		
Prepaid advertisement	40,000		A second
Salary expenses	1.95.000		
Commission expenses	25.000		
Dividend paid	15,000		
	24,10,000	1	24,10,00

#### Additional information:

- Ending inventory Rs. 150.000.
- Salary due Rs. 20,000
- Depreciation on land and building Rs. 25,000 and plant and machinery Rs. 35,000.
- Prepaid advertisement Rs 35,000 was expired

#### Required:

- Trading and Profit and loss account
- b. Balance sheet

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INTERNATIONAL COL, EGE OF ENGINEERING 6 MANAGEMENT

Pre-Board Examination 2024 (2081)

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SELA

BCA, 2nd Semester

Subject: CACS 151: C Programming

Time: 3hrs.

F.M.: 60 P.M.: 24

Candidates are required to answer the questions in their own words as far as possible. Figure in the margin indicates full marks.

Group B: Attempt any \$1X questions: [6X5=30]

IL. What is computer programming? Differentiate between top-down and bottom-up approaches of programming

L2. Define operator. Explain any four types of operators I variable in C.

- L: Differentiate between iteration and recursion. Write a regram to find biggest number among three numbers of
- 14 Differentiate between while loop and do while loop. Write a C program to find input number is prime or composite
- 15. Why function is required in C programming? Write a program to find smallest number from the array using function
- 16. What is difference between binary file and text file? Write a C program to write some text "Welcome to BCA program" in a file test.txt.
- 17 Explain the term "calling function by reference and by value".

Group C:

Attempt any TWO questions:

[2X10=20]

18/ Define SDLC, Explain in details.

(y) What is one dimensional array? How it is initialized? Write a C program to find the sum of two matrix.

20 What is the use of data file in C? write a C program to accept 100 numbers from user and store them in odd.txt file then display odd numbers reading from odd.txt file.



## ENGINEERING & MANAGEMENT

Pre-Board Examination ~ 2024 (2081)

SE

BCA, 2nd Semester

Subject: CAMT 152: Mathematics II

Time: 3hrs.

F.M.:

P.M.:

Candidates are required to answer the questions in their own words as far as possible. Figure in the margin indicates full marks. 16X5=301 Group B: Attempt any SIX questions:

- 11. Find the derivatives of the functions (a) extra (b) (sinx)x
- 12. Find the area of the region between the curves  $y^2 = 4ax$  and  $x^2 = 4ay$
- 13. Find the absolute maximum and absolute minimum values of  $g(t) = 8t^2 t^4$  on [-2,1]
- Using L' Hospital rule, evaluate  $\lim_{\kappa \to 0} \frac{\kappa^2}{\kappa^2}$
- Verify Mean Value Theorem for the function  $f(x) = x^3 + x^2 6x$  in [-1.4]
- 16. Maximize and minimize the F(x, y) = 10x + 12y for the feasible region defined by  $4x + 3y \le 24$ ,  $x + 2y \ge 4$ ;  $x \ge 0, y \ge 0$
- Solve the following differential equations (i)  $\frac{dy}{dx} + 1 = e^{x+y}$  (ii) xdy ydx = 0

Group C:

Attempt any TWO questions:

12X10=201

- 18. (i) Find the volume of solid obtained by rotating about the x-axix the region bounded by the curve  $y = \sqrt{x}$ . x = 0, x = 1(ii) Find the length of the graph of  $f(x) = \frac{x^2}{12} + \frac{1}{x}$ .  $1 \le x \le 4$
- 19. Find  $\frac{dy}{dx}$  of following function.

(i) 
$$x = t - 2t^2$$
 and  $y = 2t - t^2$  (ii)  $y = \log(x + \sqrt{x^2 + a^2})$ 

iii 
$$y = \log(x + \sqrt{x^2 + a^2})$$

(iii) 
$$y = x^{\epsilon}$$

20 Solve the following equation by Gauss elimination methods

$$2x + 3y + 4z = 20$$

$$3x + 4y + 5z = 26$$

$$3x + 5y + 6z = 31$$



Pre-Board Examination - 2024 (2081)

BCA, 2nd Semester

Subject: CAAC 155: Microprocessor & Computer Architecture

Time: 3hrs.

Candidates are required to answer the questions in their own words as far as possible. Figure in the margin indica

Group B: Attempt any SIX questions:

Explain the addressing modes of 8085 with suitable example. (5)

12 Define instruction cycle. Explain the opcode fetch machine cycle of MOV A, B with timing diagram

A. B=78h) (5)

Define stack. Explain the stack organization. (1+4)

What is cache memory. Explain the elements of cache design. (5)

Explain the organization of microprogrammed control unit. (5)

16 What is pipeline? Explain four segments instruction pipeline. (5)

Write short notes on (Any TWO):

(2.5+2.5=5)

a. Accumulator

b. 8085 Interrupts

e. Structure of hard disk

Group C:

Attempt any TWO questions

18/ Explain the internal architecture of 8085 Microprocessor.

19 For the expression

Y=(A+B)+(C+D)

Write down the code for one address, two address and three address instruction format.

20/Exp ain the organization of microprogram sequencer for control memory with suitable diagram.