



ST. FRANCIS DE SALES COLLEGE

A FRANSALIAN INSTITUTE OF HIGHER EDUCATION **AUTONOMOUS**

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END SEMESTER EXAMINATION – DECEMBER 2024

OPTIONAL ENGLISH: I SEMESTER BA

24UBA14B: INTRODUCTION TO LITERATURE

Time: 3 Hours

Max. Marks: 80

Instruction: Answer all the question

SECTION A (Introduction to Literature)

I. Answer ANY ONE of the following

(1x10=10)

1. Discuss any two reasons for studying literature?
2. What, according to M.K. Naik, is the nature and scope of Indian English literature?

II. Write short note on ANY ONE of the following

(1x5=5)

1. Discuss about the Angel in the house
2. What are the specific obstacles for women to pursue professional career?
3. Is studying literature still relevant in the digital age?

SECTION B

(Poetry)

I. Answer ANY TWO questions.

(2x10=20)

1. What is the central idea of the poem *Sailing to Byzantium* ?
2. Discuss the ideas presented in *Poems on Life* with reference to Tagore's poetry.
3. What is the central message of the poem *Home They Brought Her Warrior Dead*?
4. Write the summary of the poem *Love Came to Flora asking for a flower*

II. Write a short note on ANY ONE of the following.

(1x5= 5)

1. Analyse about Birds in the poem *Sailing to Byzantium*



2. Highlight the significance about the Poet's wish in the poem *To India My Native Land*
3. Discuss about Maidens in the poem *Home They Brought Her Warrior Dead*
4. Describe India in the period before the entry of the British in the poem *To My Native Land*

SECTION – C

(Novel, Play and Short Stories)

I. Answer ANY TWO questions.

(2x10=20)

1. Trace the rise and fall of Okonkwo in the novel *Things Fall Apart*?
2. How does the theme of regret play a central role in the story *Dr. Heidegger's Experiment*?
3. In what ways does the story *Sultana's Dream* critique patriarchy and gender inequality?
4. Discuss the role of foreshadowing in *The Monkey's Paw*. Provide examples.

II. Answer ANY FOUR of the following.

(4 x 5=20)

1. Elucidate about the Kitchen in *Lady land*
2. Describe the behaviour of the old people in *Dr. Heidegger's experiment*.
3. Discuss the Transformation of Chandu as a professional barber
4. How does the personal struggle of Okonkwo in *Things Fall Apart* reflect the broader themes of the novel?
5. Analyse the role of the Protagonist in *The Barber's Trade Union*.
6. Describe the significance of the dream in the novel *Sultana's Dream*.





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END SEMESTER EXAMINATION - DECEMBER 2024

CHEMISTRY - I SEMESTER BSC

24BSC15B - CHEMISTRY-I

Time: 3 Hours

Max. Marks: 80

Instruction: Answer should be written completely in English.

SECTION - A

Answer any **TEN** questions. Each question carries **TWO** marks.

(10X2=20)

1. Define the term 'precision'.
2. Explain the difference between absolute error and relative error.
3. What are the four characteristics of a primary standard?
4. Mention any two applications of noble gases.
5. Why are "f-block" elements called inner transition elements?
6. How does the atomic radii of transition metals change across a period and down a group?
7. Explain the Anti-Markovnikov rule with a suitable example.
8. What is inductive effect?
9. Explain elimination reaction with an example.
10. Write the mathematical expression of Maxwell-Boltzmann distribution law and deduce the terms.
11. What is inversion temperature?
12. State Nernst distribution law.

SECTION - B

Answer any **SIX** questions. Each question carries **TEN** marks.

(6X10=60)

13. a. Define errors. Mention the type of errors. (5+5)
b. Calculate the standard deviation of the following data. 22, 99, 102, 33, 57
14. a. Discuss the structure of diborane. (5+5)
b. What are transition elements? Explain the characteristics of transition elements with respect to the 1) Formation of colored compounds and 2) Magnetic properties.



15. a. Discuss briefly the Sachse-Mohr theory of strain less rings for cycloalkanes. (4+3+3)
Draw the chair and boat forms of cyclohexane.
b. What are dienes? Explain Diels-Alder reaction with an example.
c. What are carbocations? Arrange the 1° , 2° , and 3° carbocations in increasing order of stability.
16. a. Define surface tension of a liquid and explain the effect of any two factors on it. (4+3+3)
b. Mention any three factors which affects the viscosity of a liquid.
c. What is the principle of fractional distillation.
17. a. What is chemical analysis? Discuss the classification of analytical methods. (5+5)
b. Write any one method for the synthesis of XeO_3 . Discuss the structure of XeO_3 .
18. a. Discuss the conformations of ethane. (4+3+3)
b. What is lanthanide contraction? Mention any two of its consequences.
c. What are silicones? Mention any two applications.
19. a. Describe the mechanism of the oxidation reaction of alkenes with osmium tetroxide (OsO_4) (4+3+3)
b. Explain the terms collision number, collision frequency and mean free path.
c. Explain the Linde process for air liquefaction.
20. a. What are derived units? Define the terms: i) Percentage concentration and (4+3+3)
ii) Parts per million.
b. Calculate the molarity of a solution containing 10.6 g of Na_2CO_3 dissolved in 100 cm^3 of a solution. [molecular mass of $\text{Na}_2\text{CO}_3 = 106$].
c. Calculate the critical pressure and critical volume. Given Vander Waals constant $a = 0.3639 \text{ Nm}^4 \text{ mol}^{-2}$, $b = 4.27 \times 10^{-5} \text{ m}^3 \text{ mol}^{-1}$.





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END SEMESTER EXAMINATION – DECEMBER 2024

COMMERCE – I SEMESTER BCOM (TOURISM)

24BCO15B: MODERN MARKETING

Time: 3 Hours

Max. Marks: 80

Instruction: *Answers should be written completely in English*

SECTION – A

1. Answer any Seven questions. Each question carries Two marks. (7X2=14)
- Define marketing.
 - State any two approaches of marketing.
 - What do you mean by market segmentation?
 - Define ethics in marketing.
 - Give the meaning of pricing.
 - State any two channels of distribution.
 - Expand CRM and SoLoMo.
 - State any two disadvantages of online marketing.
 - What is meant by augmented reality?
 - Define e-marketing.

SECTION – B

- Answer any Three questions. Each question carries Eight marks. (3X8=24)
- Explain in detail the importance of marketing.
 - Enumerate the role of ethics in marketing.
 - Give the meaning of marketing mix. Explain the elements of marketing mix.
 - Discuss the career opportunities in social media marketing.
 - Define traditional marketing and digital marketing. Distinguish the difference between traditional marketing and digital marketing.

SECTION - C

- Answer any Three questions. Each question carries Fourteen marks. (3X14=42)
- Explain in brief the functions of marketing
 - Briefly explain the factors influencing the marketing environment
 - What do you mean by product life cycle? Explain in detail the stages of product life cycle.
 - Explain the components of online marketing environment
 - Explain the recent trends in marketing.





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END SEMESTER EXAMINATION – DECEMBER 2024

BUSINESS ADMINISTRATION – I SEMESTER BBA

(AVIATION MANAGEMENT)

24BBA13B: FUNDAMENTALS OF ACCOUNTING

Time: 3 Hours

Max. Marks: 80

Instruction: Answers should be written completely in English.

SECTION-A

1. Answer any Seven questions. Each question carries Two marks. (7x2=14)
- What is the meaning of accounting?
 - Give examples for current assets.
 - Journalize – Sold goods to Girish Rs.5000.
 - List the different types of subsidiary books.
 - What is Journal Proper?
 - What is a trading account?
 - What do you mean by bank reconciliation statement?
 - Explain any the limitations of accounting.
 - Define the term "Asset."
 - Calculate Net Purchase when Purchase is ₹.4,00,000 and Purchase Return is ₹.4,000.

SECTION-B

- Answer any Three questions. Each question carries Eight marks (3x8=24)
2. Journal the following transactions in the books of Mr. Babu.

| Date | Particulars | Amount in ₹ |
|------------|-------------------------------|-------------|
| 2024 Jan 1 | Started business with cash | 50,000 |
| 3 | Sold goods to Hendry | 40,000 |
| 7 | Goods purchased from Nandeesh | 20,000 |
| 20 | Paid Rent | 5,000 |
| 25 | Commission received | 2,000 |
| 30 | Plant and Machinery purchased | 10,000 |



3. From the following in correct trial balance, Prepare a correct trial balance

| Particulars | Dr. ₹ | Cr. ₹ |
|-------------------|---------------|---------------|
| Purchases | | 8,950 |
| Cash at Bank | 7,300 | |
| Sales | | 22,500 |
| Carriage | 300 | |
| Furniture | 2,600 | |
| Opening stock | 8,500 | |
| Capital | 24,000 | |
| Buildings | 12,000 | |
| Return Inwards | | 1,900 |
| Trade Expenses | 1,000 | |
| Return Outwards | 350 | |
| Discount Received | 970 | |
| Office Rent | | 2,270 |
| Salary | 3,000 | |
| Total | 60,000 | 35,620 |

4. Record the transactions given below in the sales book of Shankar & Co.

| Date | Particulars |
|------------|---------------------------------------------------------------------------------------------------------------------------|
| 2023 May 5 | Sales make to Jain & sons, Mumbai 12 dozen pen @ Rs. 20 per dozen 15 dozen pencil @ 50 per dozen |
| May 15 | Sales made to Allen, New Delhi 50 dozen of Whitener bottles @ 10 per bottle 50 dozen of steel scale @ 20 per dozen. |
| May 18 | Sale of journal & magazine 500 |
| May 22 | Sold goods to Roy, Goa 20. rims of paper @ 100 per rim. |

5. Differentiate between Cash basis and Accrual basis of accounting with examples.
6. Prepare bank reconciliation statement as on 31-12-2020

| Particulars | ₹ |
|--------------------------------------------------------------------------|--------|
| Bank overdraft as per passbook | 33,000 |
| Cheques issued but not presented for payment | 17,500 |
| Cheques deposited with the bank but not collected | 21,000 |
| Cheques recorded in the cashbook but not sent to the bank for collection | 4,000 |
| Payments received from customers direct by the bank | 7,000 |
| Bank charges debited in passbook | 40 |
| Electricity bills paid by the bank standing advice | 360 |
| A bill for Rs. 6000 (discounted with bank in November) | |
| Dishonoured on 31-12-2020, and noting charges paid by the bank | 20 |



SECTION-C

Answer any Three questions. Each question carries Fourteen marks

(3x14=42)

7. Explain the accounting cycle and its significance.

8. Prepare a Trial balance of Monika as on 31.3.2013 from the following ledger balances

| Particulars | Amount in ₹ |
|----------------------|-------------|
| Purchases | 60,000 |
| Reserve Fund | 20,000 |
| Sales | 1,00,000 |
| Purchase return | 1,000 |
| Sales return | 2,000 |
| Opening stock | 30,000 |
| Expenses | 20,000 |
| Outstanding expenses | 2,000 |
| Bank balance | 5,000 |
| Fixed Assets | 50,000 |
| Debtors | 80,000 |
| Creditors | 30,000 |
| Capital | 94,000 |

9. From the following Trial balance, you are required to prepare trading, Profit & loss account and Balance sheet as on 31/3/2023.

| Particulars | Dr. ₹ | Cr. ₹ |
|------------------------|--------|----------|
| Capital | ----- | 50,000 |
| Drawings | 10,000 | ----- |
| Plant and machinery | 30,000 | ----- |
| Furniture and fittings | 6,000 | ----- |
| Stock on 1/4/2022 | 15,000 | ----- |
| Purchases | 96,000 | ----- |
| Sales | ----- | 1,52,000 |
| Carriage inwards | 2,600 | ----- |
| Debtors | 22,000 | ----- |
| Creditors | ----- | 16,000 |
| Salaries | 18,000 | ----- |
| wages | 8,600 | ----- |
| Rent and rates | 3,400 | ----- |
| Bills receivables | 8,000 | ----- |
| Bills payables | ----- | 11,000 |
| Insurance | 1,200 | ----- |



| | | |
|-------------------------|-----------------|-----------------|
| Sales return | 2,000 | ----- |
| Purchase return | ----- | 1,000 |
| Printing and stationery | 1,800 | ----- |
| Carriage Inwards | 1,400 | ----- |
| Cash -in Hand | 500 | ----- |
| Cash -at- Bank | 3,500 | ----- |
| Total | 2,30,000 | 2,30,000 |

Stock on 31/3/2023 was valued at 20,000.

10. From the following particulars, prepare a petty cash on Imprest System of M/s Gopi & co.

| Date | Particulars | Amount in ₹ |
|--------------|-----------------------------------|-------------|
| 2023 March 1 | Amount received from head cashier | 175 |
| March 2 | Purchased postage stamps | 30 |
| March 4 | Telegram charges | 8 |
| March 5 | Taxi charges | 10 |
| March 10 | Railway freight | 20 |
| March 15 | Printing charges | 12 |
| March 20 | Paper and pencils | 11 |
| March 28 | Taxi charges | 20 |
| March 30 | Stamps | 30 |

11. Journal the following transactions and prepare their respective ledgers.

| Date | Particulars | Amount in ₹ |
|------------|-------------------------------|-------------|
| 2024 Jan 1 | Started business with cash | 50,000 |
| Jan 3 | Sold goods to Hendry | 40,000 |
| Jan 7 | Goods purchased from Nandeesh | 20,000 |
| Jan 20 | Paid Rent | 5,000 |
| Jan 25 | Commission received | 2,000 |
| Jan 30 | Plant and Machinery purchased | 10,000 |





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END SEMESTER EXAMINATION DECEMBER 2024 BUSINESS ADMINISTRATION – I SEMESTER BBA 24BBA13A-FUNDAMENTALS OF ACCOUNTING

Time: 3 Hours

Max. Marks: 80

Instruction: *Answers should be written completely in English.*

SECTION- A

1. Answer any Seven questions. Each question carries Two Marks. (7X2=14)

- What do you mean by accounting?
- State the two basis of accounting?
- What is double entry system.
- What do you mean by Contra entry?
- Distinguish between journal and ledger?
- Give the meaning of Drawing.
- What is adjusting entries?
- What is Journal Proper?
- What do you mean by Banking reconciliation statement?
- State the two causes for difference between cash book and pass book bank balance.

SECTION- B

Answer any Three questions. Each question carries Eight Marks. (3X8=24)

- Briefly explain the users of accounting?
- Enter the following transactions in a simple cash book for December, 2023

| | |
|----------------------------------|-----------|
| December, | |
| 01 cash in hand | Rs 12,000 |
| 05 Cash received from Bhanu | Rs 4,000 |
| 07 Rent paid | Rs 2,000 |
| 10 Purchase goods from Murari | Rs 6,000 |
| 15 Sold goods for cash | Rs 9,000 |
| 18 Purchase Stationery | Rs 300 |
| 22 Cash paid to Rahul on Account | Rs 2,000 |
| 28 Paid salary | Rs 1,000 |
| 29 Purchase machinery on credit | Rs 20,000 |
| 30 paid rent | Rs 500 |



4. Prepare a Trail Balance from the following data for the year ending March 31, 2024

| Particulars | Amount |
|----------------------|--------|
| Capital | 50,000 |
| Purchases | 44,000 |
| Return Outwards | 2,500 |
| Machinery | 30,000 |
| Sales | 50,000 |
| Return Inwards | 5,000 |
| Discount allowed | 2,500 |
| Debtors | 20,000 |
| Discount received | 7,500 |
| Cash in hand | 2,500 |
| Carriage outward | 2,500 |
| Wages | 5,000 |
| Depreciation | 5,000 |
| Outstanding expenses | 7,500 |
| Prepaid expenses | 1,000 |

5. Prepare Bank Reconciliation statement from the following for the month of Nov, 2024
- Bank balance as per cash book Rs 12,500
 - Cheque issued but not yet presented for payments Rs 6,000
 - Cheque deposited into bank but not collected Rs 9,000
 - Bank paid insurance premium Rs 5,000
 - Bank charges Rs 300
 - Direct deposited by a customer Rs 8,000
 - Interest on Investment collected by bank Rs 2,000
6. Prepare a Trading and profit and loss accounting of Mr. Sagar for the year ending 31st March 2024

| Particulars | Amount |
|---------------------------------------------------|----------|
| Stock on 1 st April 2023 | 30,000 |
| Sales | 1,50,000 |
| Sales return | 5,000 |
| Purchases | 1,20,000 |
| Purchase Returns | 1,500 |
| Carriage Inwards | 2,000 |
| Salaries and wages | 15,000 |
| Bank interest paid | 1,000 |
| Printing and stationery | 3,000 |
| Discount received | 500 |
| Discount allowed | 500 |
| Audit fees | 2,000 |
| Insurance premium | 3,000 |
| Stock on 31 st March was valued at Rs. | |
| 75,000 | |



SECTION- C

Answer any Three question. Each question carries **Fourteen Marks.**

(3X14=42)

7. List out the accounting concepts and explain any four.
8. Journalize the following transactions in the books of Bahubali and prepare the Bank Account

| 2024 | | Rs |
|---------|----------------------------------------------|--------|
| Aug, 01 | Business started with cash | 75,000 |
| Aug, 07 | Purchase goods for cash | 10,000 |
| Aug, 09 | Sold goods to Swathi | 5,000 |
| Aug, 12 | Cash deposited into bank | 20,000 |
| Aug, 15 | Purchase furniture by cheque | 10,000 |
| Aug, 18 | Cash received from Swathi in full settlement | 4,500 |
| Aug, 20 | Paid rent | 1,000 |
| Aug, 25 | Paid salary by cheque | 500 |
| Aug, 29 | Bought Machinery from HTML on credit | 10,000 |
| Aug, 31 | Withdrew from Bank for personal use | 1,000 |

9. Prepare an analytical petty cash book from the following transactions. 2024
 Jan 1st A fixed amount given by Chief Cashier for petty expenses-Rs. 1400
 2nd Paid for Cartage – Rs. 120
 6th Postage and Telegram – Rs. 60
 8th Paid for Taxi hire – Rs. 250
 11th Wages paid – Rs. 40
 15th Paid to Rangaraj in full settlement of his account – Rs. 50
 20th Postal stamps purchased – Rs. 80
 25th Paid for repairs to furniture – Rs. 180
 26th Paid subscription for newspaper – Rs. 90
 27th Stationery purchased – Rs. 30
 28th Refreshments to customers – Rs. 110
 30th Sundry expenses – Rs. 75
 30th Courier charges – Rs. 65
10. Enter the following transactions in the books of Vijay in Purchase Book, Sales Book, Purchase Return book, Sales return Book and Journal proper for the month of November 2024.
 2024, November.
 01. Purchased goods from Vikas Stores Rs.18,000 at 5% Trade Discount.
 02. Sold goods of Rs.9,000 to Prabhakar Traders.
 05. Veena sold goods of Rs.16,000 to us at 5% Trade Discount as per our order.
 08. Sent a Debit Note to Vikas Stores Rs.1,600 [Gross] for goods returned.
 10. Sold goods of Rs.12,000 on Credit to Shamal & Sons at 6% Trade Discount.
 18. Received Credit Note from Veena Rs.9,000 [Gross] for goods returned.
 22. Sent Credit Note to Parbhakar Traders for Rs.1,500 for goods returned.
 23. Received Debit note from Shamal & Sons for Rs.1,200 [Net] for goods returned.



25. Purchased goods of Rs.16,600 from Priya Stores and paid for Carriage Rs.150
26. Purchased goods from Sadhana Stores Rs.12,000
28. Sold goods to Aradhana Stores Rs 6,400
29. returned goods by Aradhana of Rs.2,400 as they were defective.
31. Purchased Furniture for office use Rs.30,000 from Art Furniture Works on credit.

11. From the following information prepare trading and profit and loss account and Balance sheet of Ms. Acharya for the year ending 31/10/2024.

| Debit Balance | Amount | Credit Balance | Amount |
|-------------------------|-----------------|-----------------|-----------------|
| Drawings | 20,000 | Capital | 2,00,000 |
| Debtors | 80,000 | Return outwards | 2,000 |
| Printing and Stationery | 5,400 | Bank overdraft | 16,000 |
| Freight | 9,000 | Creditors | 75,400 |
| Return inwards | 7,000 | Sales | 2,76,000 |
| Opening stock | 25,000 | | |
| Purchases | 1,80,000 | | |
| Plant and machinery | 1,20,000 | | |
| Cash in hand | 20,000 | | |
| Wages | 10,000 | | |
| Discount allowed | 2,000 | | |
| Motor car | 91,000 | | |
| | 5,69,400 | | 5,69,400 |

Adjustments:

- a) Closing stock was Rs 45,000
- b) Outstanding wages Rs 2,000
- c) Depreciation on plant and machinery at 10% PA
- d) Provision for doubtful debts At 5% on Debtors





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END SEMESTER EXAMINATION – DECEMBER 2024

COMMERCE – I SEMESTER BCOM

24BCO15A: MODERN MARKETING

Time: 3 Hours

Max. Marks: 80

Instruction: *Answers should be written completely in English*

SECTION – A

1. Answer any Seven questions. Each question carries Two marks. (7X2=14)
- Define Marketing.
 - What is regulated market?
 - Give the meaning of market segmentation.
 - What do you mean by ethics in marketing?
 - What is Promotion?
 - What is pricing?
 - What is neuro marketing?
 - Mention any two social media platforms for marketing.
 - Give the meaning of influencer marketing.
 - Expand: AGMARK and ISO.

SECTION – B

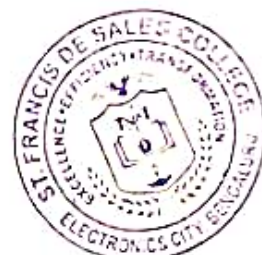
Answer any Three questions. Each question carries Eight marks. (3X8=24)

- Explain the functions of marketing with examples.
- Briefly explain the importance of ethics in marketing.
- Discuss in brief the steps involved in new product development.
- Distinguish between Traditional Marketing and Digital Marketing.
- Explain the career opportunities in Social Media Marketing.

SECTION – C

Answer any Three questions. Each question carries Fourteen marks. (3X14=42)

- Explain the different types of markets with examples.
- Discuss the bases for market segmentation with examples.
- Explain Product Life Cycle in detail.
- Discuss the principles and drivers of new marketing environment.
- Explain the recent trends in marketing.





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END SEMESTER EXAMINATION – DECEMBER 2024

COMPUTER SCIENCE – I SEMESTER BCA

24BCA14 – PROBLEM SOLVING TECHNIQUE

Time: 3 Hours

Max. Marks: 80

Instruction: *Answer should be written completely in English*

SECTION – A

Answer any **FIVE** questions. Each question carries **TWO** marks.

(5 X 2 = 10)

1. Define Algorithm? Write any two features of algorithm.
2. How to define symbolic constants in C. Give an example.
3. What is the keyword? Give two examples.
4. Write a general syntax of the ternary operator.
5. Mention the difference between entry and exit control loop.
6. Define command line arguments.
7. Write any four sorting techniques.
8. Write the difference between break and continue statement.

SECTION – B

Answer any **SIX** questions. Each question carries **FIVE** marks.

(6 X 5 = 30)

9. Write an algorithm to generate Fibonacci sequence.
10. Define variable and constant. Explain basic data types in 'C' programming language.
11. Write a 'C' program to find the largest 3 numbers.
12. Describe the concept of sorting by exchange with suitable example.
13. Explain switch statement in C with example program.



14. Give differences between structure and union.
15. Write an algorithm to reverse the digits of an integer.
16. Write an algorithm to remove duplicates from an ordered array.

SECTION – C

Answer any **FIVE** questions. Each question carries **EIGHT** marks.

(5 X 8 = 40)

17. Explain looping structures in 'C' programming with example. (8)
18. Write a C Program to multiply two matrices. (8)
19. a) Write an algorithm to find maximum element of an array. (4)
b) Write a 'C' Program to print factorial of a number. (4)
20. Write a 'C' Program to search for an element using Linear Search. (8)
21. What are the different file operations? Explain in detail. (8)
22. What is pointer? Write a 'C' Program to find the size of the integer and character pointer. (8)





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END SEMESTER EXAMINATION - DECEMBER 2024

POLITICAL SCIENCE - I SEMESTER BA

24UBA15A - FUNDAMENTAL CONCEPTS IN

POLITICAL SCIENCE

Time: 3 Hours

Max. Marks: 80

Instruction: *Answer should be written completely in English.*

SECTION - A

Answer all the questions. Each question carries two marks.

(10X2=20)

1. What is Political Science?
2. What is Normative Approach?
3. Write any two differences between Civil Society and State?
4. What is Pluralistic Theory of Sovereignty?
5. Write the meaning of Environmental Rights.
6. Who is John Locke? Mention his famous book.
7. What is Authority?
8. What is Equality?
9. What do you mean by Traditional Approach.
10. Define Economy Justice.

SECTION - B

Answer any three of the following questions. Each question carries ten marks. (3X10=30)

11. Describe the difference between Political Science and Politics.
12. Discuss the characteristics of Welfare State.
13. Discuss the features of Behavioralism.
14. Explain the social contract theory of J.J. Rousseau.
15. Explain the differences between Positive and Negative liberty.

SECTION - C

Answer any two of the following questions. Each question carries fifteen marks. (2X15=30)

16. Explain the nature and importance of Political Science.
17. Explain the traditional and modern approach to the study of Political Science.
18. Discuss the Divine origin theory of state.
19. What is Sovereignty? Explain the kinds of Sovereignty.





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END SEMESTER EXAMINATION – DECEMBER 2024

COMPUTER SCIENCE – I SEMESTER BSC

24BSC14A/C - PROBLEM SOLVING TECHNIQUE

Time: 3 Hours

Max. Marks: 80

Instruction: *Answer should be written completely in English*

SECTION – A

Answer any **FIVE** questions. Each question carries **TWO** marks.

(5 X 2 = 10)

1. Define Sorting.
2. Draw a flowchart to find multiplication of two numbers.
3. Name any five keywords in C.
4. Write an algorithm for exchanging the values of two variables.
5. Define an identifier.
6. Differentiate between pre-increment and post-increment operators.
7. Define a ternary operator.
8. Define fprintf() and fscanf().

SECTION -B

Answer any **SIX** questions. Each question carries **FIVE** marks.

(6 X 5 = 30)

9. Explain the role and characteristics of algorithm.
10. Distinguish between structure and union in C.
11. Write short notes on C tokens with examples.
12. Briefly explain about operators in C
13. Write a C program to find the factorial of a number.
14. Write an algorithm to swap the values of two variables.
15. Write a C program to display Fibonacci Series.
16. What is an array? Explain one- and two-dimensional array in C.



SECTION – C

Answer any FIVE questions. Each question carries EIGHT marks.

(5 X 8 = 40)

17. Explain different data types in C. (8)
18. Write a C program to find biggest of three numbers. (8)
19. a) Explain printf() and scanf() functions with a suitable example. (4)
b) Explain the process of sorting by insertion with algorithm. (4)
20. a) Define pointer and write a C program to swap two numbers using pointers. (4)
b) Write a C program to print the array elements in reverse order. (4)
21. a) Explain files in C. Write a C program to read a file using fopen(). (4)
b) Explain Error Handling in File System. (4)
22. Explain the process of binary search and write an algorithm for it. (8)

