AECC01.5

126579

Reg. No. | | | | | | | | |

I Semester B.C.A./B.VOC.IT Degree Examination,

January/February - 2025

ಕನ್ನಡ ಭಾಷೆ

ಗಣಕ ಸೌರಭ – 1

(NEP Repeaters Scheme)

Paper - 1

Time : 2½ Hours **Maximum Marks : 60**

I. ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ ನಾಲ್ಕು ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. (5×2=10)

1. ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿ ಪ್ರಸಾರಗೊಂಡದ್ದು ಹೇಗೆ ?
2. 'ಭಾರತೀಯರ ಆತ್ಮ ಬ್ರಿಟೀಷರಿಗೆ ಬಲಿಯಾಯಿತು' ಎಂದು ಗಾಂಧೀಜಿ ಅಭಿಪ್ರಾಯ ಪಡಲು ಕಾರಣವೇನು ?
3. ವಿ.ಸೀ. ಯವರಿಗೆ 'ಬೆಳದಿಂಗಳು' ಕಂಡದ್ದು ಹೇ ಗೆ ?
4. ನಕ್ಷತ್ರ ಪುಂಜಗಳನ್ನು ಹೆಸರಿಸಿ.
5. 'ನಿರಂಕುಶ ಮತಿ' ಎಂದರೇನು ?
6. ತಮ್ಮಯ್ಯ ಮಾರೆಯನ್ನು ಎಲ್ಲೆಲ್ಲಿ ಹುಡುಕಿದನು ?
7. ಮೊಲದ ಮಾಂಸಕ್ಕೆ ಎಲ್ಲೆಡೆ ಹೆಚ್ಚು ಬೇಡಿಕೆ ಏಕೆ ?
8. ಓಹರ್ನ್ ತಮ್ಮ ಮನೆಗೆ ಏನೆಂದು ಹೆಸರಿಟ್ಟರು ? ಆ ಹೆಸರಿನ ಅರ್ಥವೇನು ?

II ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ನಾಲ್ಕು ಪ್ರಶ್ನೆಗಳಿಗೆ ಹತ್ತು ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. (4×5=20)

1. ಆಂಡಯ್ಯ ಕನ್ನಡ ನಾಡನ್ನು ವರ್ಣಿಸಿರುವ ಬಗೆ
2. ಹಂಪ ನಾಗರಾಜಯ್ಯರವರು ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿಯನ್ನು ಗ್ರಹಿಸಿರುವ ರೀತಿಯನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.
3. ಆಂಗ್ಲರ ಆಳ್ವಿಕೆ ಭಾರತದ ಸ್ವಾಮ್ಯವನ್ನು ಕುಗ್ಗಿಸಿದ ಪರಿ ಬಗ್ಗೆ ತಿಳಿಸಿ.
4. 'ಚಂದ್ರನನ್ನು ಕರೆಯಿರಿ ಭೂಮಿಗೆ' – ಕವನದ ಸಾರಾಂಶ ಬರೆಯಿರಿ.
5. ಮೌಢ್ಯತೆಯನ್ನು ಕುರಿತು ಕುವೆಂಪು ಅವರ ಚಿಂತನೆಗಳನ್ನು ಬರೆಯಿರಿ.
6. ಯಾನ್ ರಫ್-ಓಹಾರ್ನ್‌ನ ಹಾಲೆಂಡಿನ ರೋಮಾಂಚನಕಾರಿ ಪ್ರಯಾಣದ ಬಗ್ಗೆ ತಿಳಿಸಿ.

[P.T.O.

III ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಎರಡು ಪುಟಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. **(2×10=20)**

1. ತಾಯಿ ನುಡಿಯನ್ನು ಬೆಳೆಸುವಲ್ಲಿ ಕನ್ನಡಿಗರ ಜವಾಬ್ದಾರಿಯನ್ನು 'ಕನ್ನಡದ ಅಭಿವೃದ್ಧಿ ನನ್ನ ದೃಷ್ಟಿಯಲ್ಲಿ' ಲೇಖನದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿ.
2. 'ಬಾಳು' ಕಥೆಯಲ್ಲಿ ಸಾಮಾಜಿಕ ಶೋಷಣೆ ವ್ಯಕ್ತವಾದ ಪರಿಯನ್ನು ಚರ್ಚಿಸಿ.
3. 'ಮೌಸ್ ಬಿಟ್ಟು ಮೊಲ ಹಿಡಿದಾತ' - ಲೇಖನದ ಆಶಯವನ್ನು ವಿಶ್ಲೇಷಿಸಿ.
4. ಯಾನ್ ರಫ್ - ಓಹಾರ್ನ್‌ಗಳ ಪ್ರವಾಸದ ಅನುಭವಗಳನ್ನು ಕುರಿತು ವಿವರವಾಗಿ ಬರೆಯಿರಿ.

IV ಈ ಕೆಳಗಿನ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಹತ್ತು ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ. (ಓದು ಪಠ್ಯ) **(2×5=10)**

1. ದ್ವಿಭಾಷಿಕತೆ, ಬಹುಭಾಷಿಕತೆಯ ವೈಶಿಷ್ಟ್ಯತೆಯನ್ನು ತಿಳಿಸಿ.
2. ಉಲ್ಕಾವೃಷ್ಟಿಯ ವೈಶಿಷ್ಟ್ಯತೆಯನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.
3. 1980 ರ ಮಿಲಿಟರಿ ದಂಗೆಯು ಕೆಂಪು ಮುತಿಯ ಹೆಣ್ಣಿನ ಬದುಕಿನಲ್ಲಿ ಉಂಟು ಮಾಡಿದ ಕೋಲಾಹಲದ ಬಗ್ಗೆ ತಿಳಿಸಿ.
4. ಭಾರತದ ಅಭಿವೃದ್ಧಿಯ ಸಮ್ಮೇಳನಗಳಲ್ಲಿ ಚರ್ಚಿತವಾದ ವಿಷಯಗಳು ಯಾವುವು ? ವಿಶದಪಡಿಸಿ.

AECEN15

Reg. No. | | | | | | | | |

I Semester B.C.A. Degree Examination, January/February - 2025

GENERAL ENGLISH - I

ALCHEMY - 1

(SEP Scheme)

Time : 3 Hours Maximum Marks : 80

Instructions to Candidates : 1. *Answer all the questions.*

2. *Mention the question numbers correctly.*

SECTION - A

[Literary Component]

I. Answer any Five questions in two or three sentences each. **(5×2=10)**

1. How does Abou Ben Adhem respond to the angle's reply?
2. What does the speaker mean by "My voice cannot be smothered" in the poem "I Am not That Woman?"
3. Where is the speech held in the story "The Bench?"
4. What does the banker risk losing if he losses the bet?
5. Who are the main characters in "Sacrifice?"
6. Give one example of superstition as mentioned in the essay by Gardiner.
7. What does Gandhi suggest is the true measure of a gentleman?

II. Answer any Four of the following in about a page each. **(4×5=20)**

1. How does the poem "Abou Ben Adhem" portary the concept of divine favor and the value of human kindness?
2. What does the interaction between the protagonist and the authority figure (the police officer) represent in the context of apartheid in "The Bench"?
3. Describe the terms of bet between the lawyer and the Banker regarding imprisonment.
4. What were the steps taken by Gandhi to become an English gentleman in the essay "Playing the English Gentleman?"
5. How does Gardiner explain the origin and persistence of superstitions in society?

[P.T.O.

III. Answer any Two of the following in about two pages each: **(2×10=20)**

1. Explain the symbolic significance of the bench in the story.
2. Discuss the theme of sacrifice in Premchand's short story "Sacrifice" and analyze how it reflects the moral dilemmas faced by the characters.
3. Discuss how Kishwar Naheed's poem "I Am Not That Woman" reflects the themes of female empowerment, resistance, and the rejection of traditional gender roles.

SECTION - B

(Grammar Components)

IV. Read the following passage and answer the questions given below. **(5×1=5)**

The time is now to save these magnificent cats before they vanish from the earth forever. There is little time left to preserve these animals; immediate action is required. I cannot imagine, nor would I wish to live in a world without tigers... without these magnificent creatures in our forests living free-without captive populations carrying on the gene pool. The power and beauty of these animals is indisputable. Tigers are an integral part of the ecosystem, as, they are a major link in the food chain. Tigers have been bestowed magical and supernatural properties by many societies, and have also been revered as gods. All living creatures of mother earth depend on one another for survival. We as human beings are brothers and sisters to every living being, from the plants to the animals to each other.

Crimes like these-the killing of tigers-must be stopped. They are often killed in the most barbaric, the most unbelievably cruel ways. I ask you-the reader-if learning of things like this moves you at all, then take that energy and do what you can to stop the killing of these magnificent animals. Write to your government, write to the governments of tiger countries and urge them to protect tigers. Penalties for killing tigers, and other protected wildlife need to be strongly enforced - and strong enough as to be a complete deterrent to the poaching of tigers, and also deter those who profit from such killings.

Extremist groups would ban all exotic animals from captivity because of small numbers of individuals that mistreat their animals, and unfortunately the whole zoo "industry" and caring private owners get painted with the same brush. The vast majority of zoos big and small, treat their animals well, feed them well and give them proper environment and enrichment. The numbers of bad homes are small, but they do exist. The Animals Rights Organization should make sure they target only the bad homes and leave those providing a good, happy and healthy home for animals alone. They don't realize that banning all exotics from captivity could spell end for many species of animals. Species whose numbers in the wild are extremely low, such as the Clouded Leopard, Siberian tiger, South China tiger and so forth. Zoos, sanctuaries and responsible, knowledgeable and caring private owners are rapidly becoming the last havens to preserve everdwindling species of animals. These places may well, in the not-so-far future, hold the last remaining tigers-gems for the future who should be nurtured and protected. Caring for tigers is our immense responsibility. Not just to the

single tiger in your care, but to his or her species, and all tigers. Simply to own a tiger and keep him or her in your backyard as a pet is not enough, nor is it acceptable to keep this animal to yourself. You, the owner, owe it to all tigers __ wild and those held in capitivity __ and to the future generations of these animals to educate the public about tigers ___ and help to change peoples' opinions about wildlife preservation. Education is key to developing sensitivity to and awareness of our environment. Our children hold the hope for the future of the tiger. Heightened awareness of environmental issues will help assure our children grow up to respect and care for our global enviornment. Think Globally __ Act Locally!.

Answer the following questions :

1. Why Tigers are considered an integral part of the ecosystem?
2. Tigers have been revered as gods by many societies. True/False.
3. What should readers do to help stop the killing of tigers?
4. What are the extremist groups banning?
5. What does the phrase "Think Globally - Act Locally" imply in the context of tiger conservation?
   a) Focusing only on local issues
   b) Understanding global impacts but taking local actions
   c) Supporting global policies only
   d) Ignoring global problems

V. Do as directed : **(10)**

1. Will you take _____ picture of us? (fill in the blank with a suitable article)
2. He is _____ honest man. (fill in the blank with a suitable article)
3. The teacher divided the sweets _____ all the children. (fill in the blank with a suitable preposition)
4. The boy ___ the store in quite young. (fill in the blank with a suitable prepositions)
5. All my friends _____ here. (be) (fill in the blank with a suitable verb)
6. Manu _____ to school every day. (walk) (fill in the blank with a suitable verb)
7. Frame sentences for idioms and phrases given below :
   a) A piece of cake
   b) Switch off
   c) Once in a blue moon
   d) Turn over

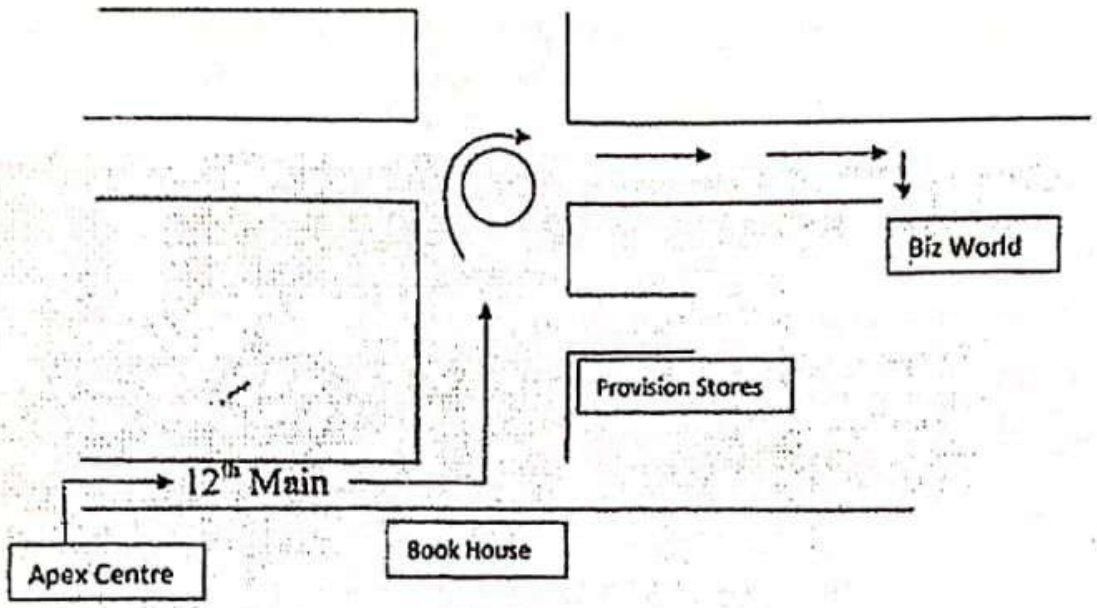
VI. Change following sentences into reported speech: **(5×1=5)**

1. "Could you please be quiet," She said.
2. He said," Do you speak English?"

3. Suma said, "Wow! I can't believe we did that"
4. The boy said," Let me come in."
5. Raju said, " I saw a lion in the forest yesterday."

VII. Give instruction on How to borrow books from your college library? (3)

VIII. Give direction to reach Biz world from Apex Centre. (2)



IX. Develop a story using the hints given below : (5)

1. Merchant in a village ... lot of money ... returning home ... way through forest infested with robbers ... heavy rain...drenched...very angry, cursed God untimely rain robber loaded pistol...wants life/money...merchant runs...robber chases...pulls trigger... pistol jammed, did not go off...escapes unhurt....thanks God for rain, bad weather....safety due to rain...

DCCA111

Reg. No. | | | | | | | | |

I Semester B.C.A. Degree Examination, January/February - 2025

COMPUTER SCIENCE

Discrete Structures

(SEP Scheme)

Time : 3 Hours **Maximum Marks : 80**

Instructions to Candidates:

Answer All the Sections.

SECTION - A

I. Answer any Ten questions. Each question carries 2 mark. **(10×2=20)**

1. Find the intersection $A \cap B$ and set difference A - B if $A = \{1, 3, 5, 7, 9\}$ and $B = \{2, 3, 4, 5, 6, 8\}$.

2. Construct a truth table for $\sim (p \vee q)$.

3. Find A^{-1} if $A = \begin{bmatrix} 6 & 3 \\ 2 & 4 \end{bmatrix}$.

4. Find the value of

   a) $4P_3$ b) $6C_3$

5. Define Equivalence Relation.

6. Define Unit Matrix with example.

7. If $A = \begin{bmatrix} 2 & -1 \\ 4 & 0 \end{bmatrix}$ and $B = \begin{bmatrix} 5 & 2 \\ -3 & 2 \end{bmatrix}$ find 3A - 2B.

8. What is a minimum cost spanning tree?

9. Define the terms

   a) Graph b) Loop

[P.T.O]

10. Define Binary Tree with example.

11. Define:
    a) Walk b) Path

12. Define complete graph. Draw K_5 graph.

SECTION - B

II. Answer any Six questions. Each question carries 5 marks. (6×5=30)

13. Find n, if ${}^nP_2 = 12$.

14. Define:
    a) One - to - one function.
    b) On - to function
    With example.

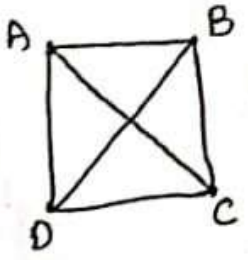
15. Show that the preposition $\sim(p \leftrightarrow q) \equiv \sim[(p \rightarrow q) \wedge (q \rightarrow p)]$.

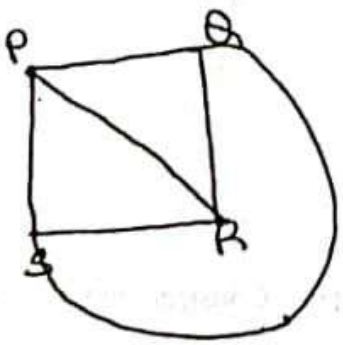
16. Prove by Mathematical Induction $1^2 + 2^2 + 3^2 + \ldots\ldots + n^2 = \frac{n(n+1)(2n+1)}{6}$, $\forall$ positive integer n.

17. Find the Inverse of the matrix $\begin{bmatrix} 1 & 0 & -1 \\ 3 & 4 & 5 \\ 0 & -6 & -7 \end{bmatrix}$.

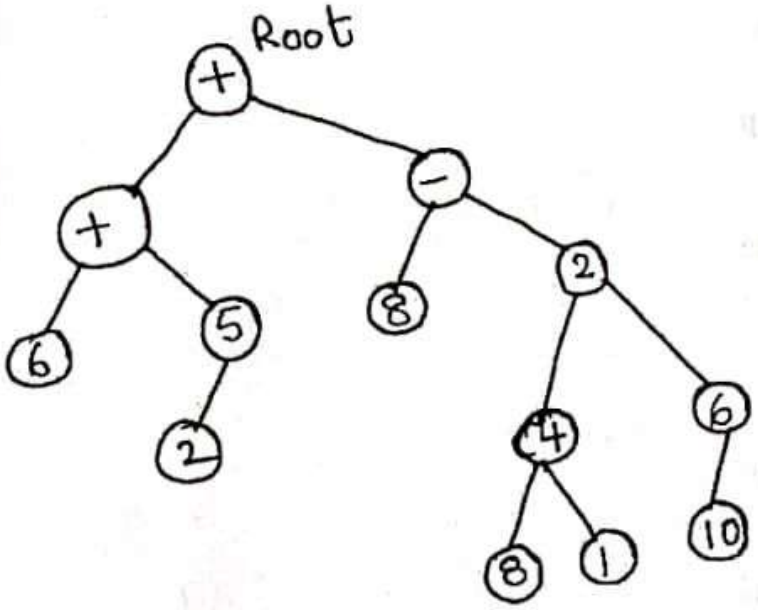
18. Solve the system of equations
    $x + y + z = 7$
    $2x + 3y + 2z = 17$
    $4x + 9y + z = 37$

19. Examine whether the following graphs are Isomorphic (or) not.





20. Traverse the following tree in Preorder, Postorder and Inorder.



SECTION - C

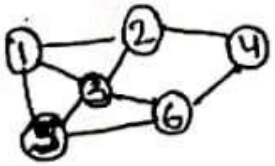
III. Answer any Three questions. Each question carries Ten marks. **(3×10=30)**

21. Consider the function $f \& g : R \to R$ defined by $f(x) = x^2 + 5$ and $g(x) = 5x - 2$. Find the composite function

    a) fog b) gof

22. Define Permutation. How many 4 digits numbers can be formed with the digits 0, 1, 2, 3, 5? (Repetition not being allowed). How many of these are greater than 2000?

23. What is a Hamilton Circuit? Check whether the following graph contains Hamiltonian Circuit. Justify your answer.

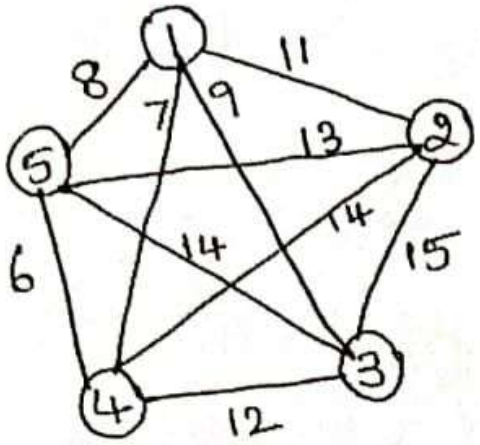


24. Define Binary Search Tree. Construct binary search tree.

    56, 38, 10, 65, 72, 44, 50

[P.T.O]

25. Find the minimum weight spanning tree by PRIM's algorithm.



160940

DCCA112

Reg. No. | | | | | | | | |

I Semester B.C.A. Degree Examination, January/February - 2025

COMPUTER APPLICATION

Problem Solving Techniques

(SEP Scheme (F))

Time : 3 Hours **Maximum Marks : 80**

Instructions to Candidates:

Answer All the Part's.

PART - A

I. Answer any **TEN** questions. Each question carries **Two** mark. **(10×2=20)**

1. List the features of an algorithm.
2. Define time complexity and space complexity of an algorithm.
3. Write the difference between Prefix and Postfix increment operator.
4. What are local and global variables? Give examples.
5. Write the general syntax of conditional operator.
6. What do you mean by formatted input and output?
7. Write the difference between while and do-while loop.
8. Write the syntax of declaring and initializing an array.
9. What is the difference between getchar ( ) and gets ( ) function?
10. Define Pointer.
11. Write the properties of command line arguments.
12. Write the difference between call by value and call by reference.

PART - B

II. Answer any **SIX** questions. Each question carries **Five** marks. **(6×5=30)**

13. Explain Big Oh (0), Omega ( ) and Theta ( ) notation in detail.
14. Explain the general structure of C program with an example.
15. Write a C program to find the roots of a quadratic equation.
16. What is Token? What are the different types of token available in C?
17. Write a program to find the GCD of two numbers using the concepts of functions.
18. What do you mean by actual arguments and formal arguments? Illustrate with an example.
19. Write a C program to read N numbers into an array and perform linear search.
20. What are the basic data type available in C? Write the significance of each data type.

PART - C

III. Answer any **THREE** questions. Each question carries **Ten** marks. **(3×10=30)**

21. a) Explain if, if-else and nested if-else statement in C program with syntax and example. **(6)**
    b) Write a note on Strcpy ( ) and Strcmp ( ) functions in C. **(4)**
22. a) Write a C program to perform matrix multiplication of 2 × 2 matrix. **(6)**
    b) Explain the concept of structure and union in C. **(4)**
23. a) With an example explain sorting by diminishing increment method. **(6)**
    b) Write a note on pattern searching in C programming. **(4)**
24. a) Write an algorithm and flowchart to find greatest of 2 numbers. **(5)**
    b) What is file? Explain different types of files. **(5)**
25. Write a C program to find addition and subtraction of 2 matrices using functions.

237539

DCCA113

Reg. No. | | | | | | | | |

I Semester B.C.A. Degree Examination, January/February - 2025

COMPUTER SCIENCE

Computer Architecture

(SEP-(F) Scheme)

Time : 3 Hours **Maximum Marks : 80**

Instructions to Candidates:

Answer All the Sections.

SECTION - A

I. Answer any **TEN** questions. Each question carries **Two** marks. **(10×2=20)**

1. Define Computer Architecture.
2. Define flip flop. Mention its types.
3. Write the Symbol and Truth Table for NAND Gate.
4. Convert $11011_{(2)}$ to gray code.
5. Show that $A + \overline{A}B = A + B$.
6. Define Minterm and Maxterm with an example.
7. What is a 8085 Microprocessor?
8. Define program control instructions.
9. What is the function of JUMP Instructions?
10. What is a Stack Pointer?
11. List the key components of Microprocessor.
12. What is the purpose of the Instructions L × I R_p, 16 - bit data?

SECTION - B

II. Answer any **SIX** questions. Each question carries **Five** marks. **(6×5=30)**

13. State and prove De-Morgan's theorems.

14. Explain the working of SR flip flop with a neat diagram.

15. Explain the block diagram of a Digital Computer.

16. Given the Boolean functions $F(A, B, C, D) = \Sigma (0, 2, 5, 7, 8, 10, 13, 15)$. Reduce it by K-Map.

17. Compare CISC and RISC.

18. Define Half-adder. Describe its truth table and block diagram. How a Half adder works?

19. Explain in detail the load and store accumulator instructions (LDA and STA) in 8085 microprocessor.

20. Explain Push and Pop micro-operation in memory stack.

SECTION - C

III. Answer any **THREE** questions. Each question carries **Ten** marks. **(3×10=30)**

21. Explain the working of Bidirectional shift register with parallel load.

22. a) Write a note on:

    i) BUN ii) BSA iii) ISZ

    b) Explain the interrupt cycle with neat diagram.

23. Explain the different types of Addressing models with an example.

24. Explain the instruction classification of 8085 based on operation.

25. Explain the pin diagram of 8085 with a neat diagram.

Reg. No. | | | | | | | | |

I Semester ALL U.G. Courses Degree Examination, January/February - 2025

POLITICAL SCIENCE

Constitutional Values - I

(SEP Scheme Freshers)

Time : 1½ Hours **Maximum Marks : 40**

***Instructions to Candidates*:**

Answers should be written completely either in Kannada or English.

SECTION - A

ವಿಭಾಗ - ಎ

I. Answer All the questions in not more than 25-30 words each. **(5×3=15)**

ಕೆಳಗಿನ ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ 25-30 ಪದಗಳಿಗೆ ಮೀರದಂತೆ ಉತ್ತರ ಬರೆಯಿರಿ.

1. Speaker
   ಸಭಾಪತಿ
2. Constituent Assembly
   ಸಂವಿಧಾನ ರಚನಾ ಸಭೆ
3. Judicial activism
   ನ್ಯಾಯಿಕ ಕ್ರಿಯಾಶೀಲತೆ
4. Governor
   ರಾಜ್ಯಪಾಲ
5. Emergency
   ತುರ್ತು ಪರಿಸ್ಥಿತಿ.

SECTION - B

ವಿಭಾಗ - ಬಿ

II. Answer any Three questions in not more than 250 words. **(3×5=15)**

ಯಾವುದಾದರೂ ಮೂರು ಪ್ರಶ್ನೆಗಳಿಗೆ 250 ಪದಗಳಿಗೆ ಮೀರದಂತೆ ಉತ್ತರಿಸಿ.

6. Explain the functions of Lok Sabha.
   ಲೋಕಸಭೆಯ ಕಾರ್ಯಗಳನ್ನು ವಿವರಿಸಿ.
7. Explain the Fundamental Rights.
   ಮೂಲಭೂತ ಹಕ್ಕುಗಳನ್ನು ವಿವರಿಸಿ.
8. Describe the main points of the preamble.
   ಪೂರ್ವ ಪೀಠಿಕೆಯ ಪ್ರಧಾನ ಅಂಶಗಳನ್ನು ವರ್ಣಿಸಿ.
9. Explain the functions of the president of India.
   ಭಾರತದ ರಾಷ್ಟ್ರಪತಿಯವರ ಕಾರ್ಯಗಳನ್ನು ವಿವರಿಸಿ.

[P.T.O.

SECTION - C

ವಿಭಾಗ - ಸಿ

III. Answer any One question in not more than 500 words. **(1×10=10)**

ಯಾವುದಾದರೂ ಒಂದು ಪ್ರಶ್ನೆಗೆ 500 ಪದಗಳಿಗೆ ಮೀರದಂತೆ ಉತ್ತರ ಬರೆಯಿರಿ.

10. Explain the salient features of Indian constitution.
ಭಾರತದ ಸಂವಿಧಾನದ ಪ್ರಧಾನ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.

11. Explain the composition and jurisdiction of supreme court.
ಸುಪ್ರೀಂ ಕೋರ್ಟಿನ ರಚನೆ ಮತ್ತು ಅಧಿಕಾರ ವ್ಯಾಪ್ತಿಯನ್ನು ವಿವರಿಸಿ.