

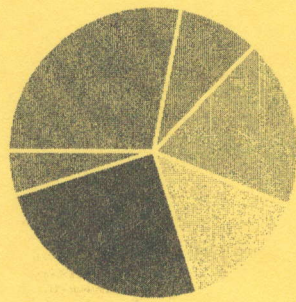
CO- Course Outcomes,

KL- Knowledge Level, PO – Program Outcome

| | |
|-----|---|
| CO1 | For a given algorithm student will be able to analyze the algorithms to determine the time and computation complexity and justify the correctness. |
| CO2 | For a given Search problem (Linear Search and Binary Search) student will be able to implement it |
| CO3 | For a given problem of Stacks, Queues and linked list student will be able to implement it and analyse the same to determine the time and computation complexity. |
| CO4 | understand the use of complexity analysis to determine which data structure is most efficient and appropriate for use in a particular application |
| CO5 | Student will be able to implement Graph search and traversal algorithms and determine the time and computation complexity. |

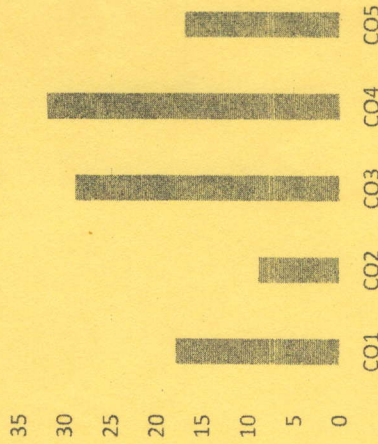
GRAPHICAL REPRESENTATION

Bloom's Level wise Marks Distribution



■ K1 ■ K2 ■ K3 ■ K4 ■ K5 ■ K6

Course Outcome wise Marks Distribution



ARKAJAIN University
Jharkhand

END TERM EXAMINATION
School of Engineering & IT

| | | | |
|---------------------------------|---|----------------|-----------------|
| Branch | Computer Science & Engineering | Program | Diploma |
| Subject Name | Data Structure | Semester | 3rd |
| | | Year | 2023/Odd |
| Time: 3 Hour Max. Marks : 70 | <ul style="list-style-type: none"> Start writing from 2nd page onwards; <u>don't Write on the 1st Page Backside</u> Answer all Questions of Section A (Compulsory) Answer Any Four out of Six of Section B Answer Any Three out of Five of Section C Possession of <u>Mobile Phones</u> or any kind of <u>Written Material, Arguments with the Invigilator or Discussing with Co-Student</u> will come under <u>Unfair Means</u> and will <u>Result in the Cancellation of the Papers.</u> | | |
| Knowledge Level (KL) | K1 : Remembering | K3 : Applying | K5 : Evaluating |
| | K2 : Understanding | K4 : Analysing | K6 : Creating |

Section A (Each question Carry 02 Marks from Q1-i to Q1-x) – 20 Marks

| Q. N1 | QUESTIONS | Marks | COs | KL | PO |
|-------|--|-------|-----|----|-----|
| i | Illustrate the problems with Array that lead to the introduction of Linked List. | 2 | CO1 | K1 | PO2 |
| ii | Compare LIFO and FIFO. | 2 | CO2 | K1 | PO3 |
| iii | If $f(n)=n^2$ and $g(n)=2^n$, which grows faster? Justify? | 2 | CO1 | K4 | PO3 |
| iv | What is a Binary Tree? Show with an example. | 2 | CO3 | K1 | PO2 |
| v | What is a Digraph? Show with an example. | 2 | CO5 | K1 | PO3 |
| vi | Create a Linked List having 5 nodes representing head, NULL, address of each node. | 2 | CO2 | K2 | PO3 |
| vii | What is big-O notation? Explain its significance. | 2 | CO1 | K3 | PO2 |
| viii | Write an algorithm/ snippet to check Overflow condition. | 2 | CO3 | K3 | PO2 |
| ix | What is AVL tree? Give example. | 2 | CO4 | K2 | PO5 |
| x | What is theta notation? | 2 | CO1 | K4 | PO3 |

Section B (Answer any FOUR out of SIX) – 20 Marks

(Each question Carry 5 Marks)

| 2.No. | QUESTIONS | Marks | COs | KL | PO |
|-------|--|-------|-----|----|-----|
| 2 | What is Infix, Prefix, and Postfix notation? Give example of each. | 5 | CO2 | K6 | PO3 |
| 3 | What is an Algorithm? Mention the characteristics of a good algorithm. | 5 | CO1 | K2 | PO3 |
| 4 | What is a Binary Search Tree (BST)? Show the structure of the binary search tree after adding each of the following values in that order: 10, 25, 2, 4, 7, 13, 11, 22. What is the height of the created binary search tree? | 5 | CO4 | K5 | PO2 |
| 5 | Convert the following infix expression into prefix expression using stack: (A-B/C) * (D*E-F) | 5 | CO3 | K1 | PO2 |
| 6 | <p>For the above Directed Graph, Find the root vertex. Also show the indegree and outdegree of each vertex.</p> | 5 | CO5 | K3 | PO3 |
| 7 | What is Time and Space complexity? Give example of both. | 5 | CO1 | K1 | PO3 |

Section C (Answer any THREE out of FIVE) – 30 Marks-

(Each question Carry 10 Marks)

| No. | QUESTIONS | Marks | COs | KL | PO |
|-----|--|-------|-----|----|-----|
| 8 | Create a Graph having self-loop. Also show a complete Graph having 4 vertices. Evaluate the following expression: $2^4 + 6 \cdot 2^2 - 12/4$. | 10 | CO5 | K1 | PO3 |
| 9 | Write short notes on following: degree of a tree, degree of a node, level, edge, height. | 10 | CO4 | K3 | PO3 |
| 0 | Using stack translate the infix expression to postfix expression: $X*(Y+Z)/A-B*(C+D/E)$. | 10 | CO3 | K5 | PO2 |
| 1 | Write down the algorithm for the following: i) PUSH ii) POP Also explain the working of a Circular Queue with proper example. | 10 | CO3 | K4 | PO3 |

Construct a tree from the following traversal:

Preorder: GBQACKFPDERH

Inorder: QBKCFAGPEDHR

12

10

CO4

K5

PO3

CO- Course Outcomes,

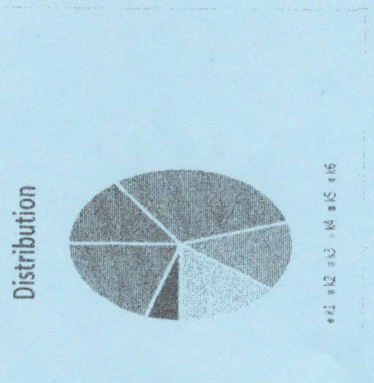
KL- Knowledge Level,

PO – Program Outcome

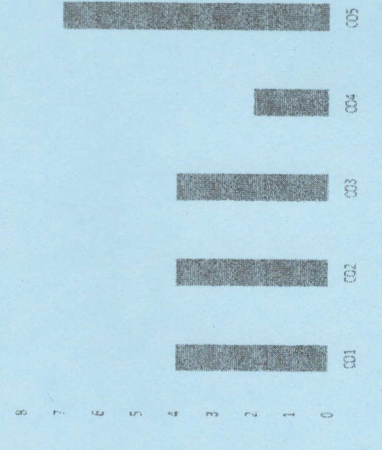
| | |
|-----|---|
| CO1 | For a given algorithm student will be able to analyze the algorithms to determine the time and computation complexity and justify the correctness. |
| CO2 | For a given Search problem student will be able to implement it. |
| CO3 | For a given problem of Stacks, Queues and linked list student will be able to implement it and analyze the same to determine the time and computation complexity. |
| CO4 | Student will be able to write an algorithm Selection Sort, Bubble Sort, Insertion Sort, Quick Sort, Merge Sort, Heap Sort and compare their performance in term of Space and Time complexity. |
| CO5 | Student will be able to implement Graph search and traversal algorithms and determine the time and computation complexity. |

GRAFICAL REPRESENTATION

Bloom's Level wise Marks Distribution



Course Outcome Wise Marks Distribution



ARKAJAIN University
Jharkhand

END TERM EXAMINATION
School of Engineering & IT

| | | | |
|---------------------------------|---|---------------------------------|----------------------------------|
| Branch | Computer Science & Engineering | Program | Diploma |
| Subject Name | Algorithms | Semester | 3rd |
| | | Year | 2023/Odd |
| Time: 3 Hour Max. Marks : 70 | <ul style="list-style-type: none"> Start writing from 2nd page onwards; don't Write on the 1st Page Backside Answer all Questions of Section A (Compulsory) Answer Any Four out of Six of Section B Answer Any Three out of Five of Section C Possession of <u>Mobile Phones</u> or any kind of <u>Written Material, Arguments with the Invigilator or Discussing with Co-Student</u> will come under <u>Unfair Means</u> and will <u>Result</u> in the <u>Cancellation of the Papers.</u> | | |
| Knowledge Level (KL) | K1 : Remembering K2 : Understanding | K3 : Applying K4 : Analysing | K5 : Evaluating K6 : Creating |

Section A (Each question Carry 02 Marks from Q1-i to Q1-x) – 20 Marks

| Q. N1 | QUESTIONS | Marks | COs | KL | PO |
|-------|--|-------|-----|----|-----|
| i | Define Algorithm. | 2 | CO1 | K1 | PO2 |
| ii | Explain time and space Complexity. | 2 | Co1 | K2 | PO2 |
| iii | How many operations are there in Stack? | 2 | Co3 | K4 | PO2 |
| iv | What is the time complexity of Insertion Sort? | 2 | Co4 | K3 | PO2 |
| v | What is the necessary criteria for Binary Search? | 2 | Co2 | K2 | PO2 |
| vi | Explain In-degree and out-degree of a node with example. | 2 | Co5 | K3 | PO2 |
| vii | What is the time complexity of Linear search? | 2 | Co2 | K3 | PO2 |
| viii | What data structure is used in Depth First Search? | 2 | Co5 | K3 | PO2 |
| ix | What is Bridge in a graph? | 2 | Co5 | K2 | PO2 |
| x | What is Time space trade off? | 2 | Co1 | K2 | PO2 |

Section B (Answer any FOUR out of SIX) - 20 Marks

(Each question Carry 5 Marks)

QUESTIONS

| Q. No. | QUESTIONS | Marks | COs | KL | PO |
|--------|---|-------|-----|----|-----|
| 2 | | 5 | Co5 | K6 | PO2 |
| 3 | Delete the node 54 from the Binary Search Tree & Draw the tree. | 5 | Co5 | K1 | PO2 |
| 4 | Define Articulation point, Parallel edges, Cycle of a graph. | 5 | Co1 | K2 | PO2 |
| 5 | Explain Big-Oh notation with proper diagram. | 5 | Co3 | K1 | PO2 |
| 6 | What is FIFO data structure? Define QUEUE. | 5 | Co5 | K6 | PO2 |
| 7 | How do you create Spanning Tree? Define shortest path with example. | 5 | Co3 | K2 | PO2 |
| 7 | What is Circular queue explain with diagram. | 5 | Co3 | K2 | PO2 |

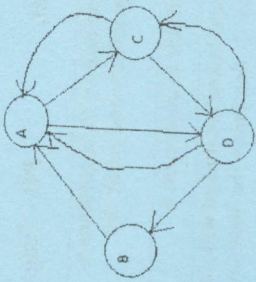
Section C (Answer any THREE out of FIVE) - 30 Marks-

(Each question Carry 10 Marks)

QUESTIONS

| No. | QUESTIONS | Marks | COs | KL | PO |
|-----|--|-------|-----|----|-----|
| 8 | Analyse Linear Search with example. | 10 | C02 | K4 | PO2 |
| 9 | Convert the expression into postfix notation (A+B)/(C-D). Show each steps. | 10 | Co3 | K6 | PO2 |
| 0 | Explain Selection Sort with example and analysis its time complexity. | 10 | Co4 | K4 | PO2 |

11



Draw the adjacency matrix and incidence matrix for the given directed un-weighted graph.
Evaluate following postfix expression using stack
7,2,-,1,3,+,-/ show each steps.

12

10

Co5

K6

Co2

K5

PO2

CO- Course Outcomes,

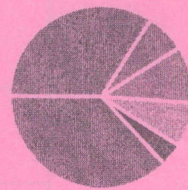
KL- Knowledge Level,

PO – Program Outcome

| | |
|-----|--|
| CO1 | Makes students gain a broad perspective about the uses of computers in engineering industry. |
| CO2 | Develops basic understanding of computers, the concept of algorithm and algorithmic thinking. |
| CO3 | Develops the ability to analyze a problem, develop an algorithm to solve it. |
| CO4 | Develops the use of the C programming language to implement various algorithms, and develops the basic concepts and terminology of programming in general. |
| CO5 | Introduces the more advanced features of the C language. |

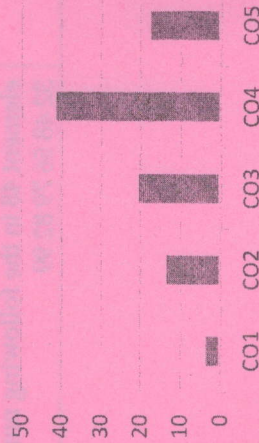
GRAFICAL REPRESENTATION

Bloom's Level wise Marks Distribution



■ K1 ■ K2 ■ K3 ■ K4 ■ K5 ■ K6

Course Outcome wise Marks Distribution



ARKAJAIN University
Jharkhand

END TERM EXAMINATION
School of Engineering & IT

| | | | |
|---------------------------------|--|----------------|-----------------|
| Branch | Computer Science & Engineering | Program | Diploma |
| Subject Name | Computer Programming | Semester | 3rd |
| | | Year | 2023/Odd |
| Time: 3 Hour Max. Marks : 70 | <ul style="list-style-type: none"> Start writing from 2nd page onwards; don't Write on the 1st Page Backside Answer all Questions of Section A (Compulsory) Answer Any Four out of Six of Section B Answer Any Three out of Five of Section C Graf Paper / Drawing Sheet/ Log Book/ Ledger (please Mention if any) Possession of Mobile Phones or any kind of Written Material, Arguments with the Invigilator or Discussing with Co-Student will comes under Unfair Means and will Result in the Cancellation of the Papers. | | |
| Knowledge Level (KL) | K1 : Remembering | K3 : Applying | K5 : Evaluating |
| | K2 : Understanding | K4 : Analysing | K6 : Creating |

Section A (Each question Carry 02 Marks from Q1-i to Q1-x) – 20 Marks

| Q.N 1 | QUESTIONS | Marks | COs | KL | PO |
|-------|---|-------|-----|----|-----|
| i | What will be output when you will execute following c code? <pre> void main() { int fruit=1; switch(fruit+2) { default:printf("apple"); case 4: printf(" banana"); case 5: printf(" orange"); case 8: printf(" grape"); } } </pre> | 2 | CO3 | K5 | PO4 |
| ii | Explain the advantages of functions. | 2 | CO5 | K2 | PO3 |
| iii | How switch case works without break statement. | 2 | CO3 | K4 | PO3 |
| iv | Differentiate between post-increment and pre-increment. | 2 | CO2 | K4 | PO3 |
| v | Differentiate between Actual parameter and Formal parameter. | 2 | CO5 | K4 | PO4 |

Section C (Answer any THREE out of FIVE) - 30 Marks-
(Each question Carry 10 Marks)

| Q. No. | QUESTIONS | Marks | COs | KL | PO |
|--------|---|-------|-----|----|-----|
| 8 | What is recursion? Write a program in C to find out factorial of a given number using recursion. | 10 | CO4 | K6 | PO5 |
| 9 | Explain the following string handling functions a) strcmp() b) strstr() c) strlen() d) strstr() e) strcpy() | 10 | CO5 | K1 | PO3 |
| 10 | Write a C program to find the factorial of given number using function. | 10 | CO4 | K6 | PO5 |
| 11 | List the basic data types with byte specification. | 10 | CO2 | K1 | PO2 |
| 12 | Write the steps involved in performing binary search operation to search an element 48 in the following numbers. 32 48 56 79 82 99 | 10 | CO4 | K3 | PO3 |

| | | | | | |
|------|--|---|-----|----|-----|
| vi | Write a program in C to find out the greatest among three numbers using function. | 2 | CO5 | K6 | PO5 |
| vii | Illustrate the declaration and initialization of two dimensional array | 2 | CO4 | K1 | PO2 |
| viii | What is the output of the following program main() { int i; for(i=1;i<5;i++) { if(i==3) continue; Printf("%d", i); } } | 2 | CO3 | K5 | PO4 |
| ix | Give the differences between library functions and user-defined functions. | 2 | CO5 | K1 | PO3 |
| x | Why the return statement is required in a function body? | 2 | CO2 | K4 | PO3 |

Section B (Answer any FOUR out of SIX) - 20 Marks
(Each question 5 Marks)

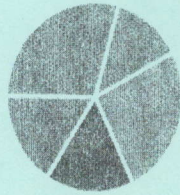
| Q. No. | QUESTIONS | Marks | COs | KL | PO |
|--------|---|-------|-----|----|-----|
| 2 | Write a C program to read and display a 3 by 3 matrix. | 5 | CO4 | K6 | PO5 |
| 3 | Write a C program to search an element in an array | 5 | CO4 | K6 | PO5 |
| 4 | Explain nested for loop with general syntax and example. | 5 | CO3 | K1 | PO2 |
| 5 | Illustrate the switch statement with syntax and example. | 5 | CO3 | K1 | PO2 |
| 6 | Write a flowchart to compute addition of given two numbers. | 5 | CO1 | K2 | PO1 |
| 7 | Write an algorithm to find the maximum in an array | 5 | CO3 | K6 | PO4 |

PO- Course Outcomes, **KL- Knowledge Level,** **PO – Program Outcome**

| | |
|-----|--|
| CO1 | Explain the organization of basic computer, its design and the design of control unit. |
| CO2 | Demonstrate the working of central processing unit and RISC and CISC Architecture |
| CO3 | Describe the operations and language for the register transfer, micro operations and input-output organization |
| CO4 | Understand the organization of memory and memory management hardware. |

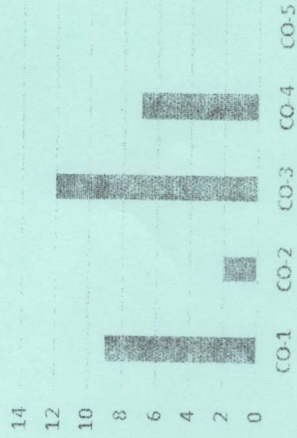
GRAFICAL REPRESENTATION

Bloom's level wise Marks Distribution



■ level-1 ■ level-2 ■ level-3
■ level-4 ■ level-5 ■ level-6

Course Outcome wise Marks Distribution



ARKA JAIN
University
Jharkhand

END TERM EXAMINATION
School of Engineering & IT

| | | | |
|---------------------------------|---|----------------|-----------------|
| Branch | Computer Science & Engineering | Program | Diploma |
| Subject Name | Computer System Organization | Semester | 3rd |
| | | Year | 2023/ Odd |
| Time: 3 Hour Max. Marks : 70 | <ul style="list-style-type: none"> Start writing from 2nd page onwards; don't Write on the 1st Page Backside Answer all Questions of Section A (Compulsory) Answer Any Four out of Six of Section B Answer Any Three out of Five of Section C Possession of Mobile Phones or any kind of Written Material, Arguments with the Invigilator or Discussing with Co-Student will come under <u>Unfair Means</u> and will Result in the Cancellation of the Papers. | | |
| Knowledge Level (KL) | K1 : Remembering | K3 : Applying | K5 : Evaluating |
| | K2 : Understanding | K4 : Analysing | K6 : Creating |

Section A (Each question Carry 02 Marks from Q1-i to Q1-x) - 20 Marks

| Q.N1 | QUESTIONS | Marks | COs | KL | PO |
|------|---|-------|-----|----|-----|
| i | Draw a structure of single-bus structure? | 2 | CO1 | K1 | PO2 |
| ii | What is Memory system? | 2 | CO1 | K2 | PO3 |
| iii | Normalize the number -197 into binary form? | 2 | CO4 | K3 | PO1 |
| iv | What is microprocessor? | 2 | CO3 | K2 | PO4 |
| v | What is microcontroller? | 2 | CO2 | K3 | PO3 |
| vi | What are addressing modes? | 2 | CO4 | K3 | PO2 |
| vii | Define the term cache memory? | 2 | CO2 | K2 | PO3 |
| viii | List different types of addressing modes? | 2 | CO4 | K2 | PO3 |
| ix | What is data transparency? | 2 | CO3 | K1 | PO1 |
| x | Write short notes on conditional branching? | 2 | CO4 | K2 | PO4 |

Section B (Answer any FOUR out of SIX) - 20 Marks

(Each question Carry 5 Marks)

| Q. No. | QUESTIONS | Marks | COs | KL | PO |
|--------|---|-------|-----|----|-----|
| 2 | Convert (1277.143) ₁₀ into Single and Double Precision. | 5 | CO2 | K3 | PO3 |
| 3 | Perform Arithmetic Micro operations -For Add, Subtract, Complement. | 5 | CO4 | K2 | PO2 |
| 4 | Explain Types of Interrupts with an example for each. | 5 | CO3 | K2 | PO3 |
| 5 | What are the types of micro operations? | 5 | CO4 | K2 | PO2 |
| 6 | Explain the architecture of a basic Computer. | 5 | CO3 | K3 | PO1 |
| 7 | Discuss about Memory Reference Instructions. | 5 | CO2 | K2 | PO4 |

Section C (Answer any THREE out of FIVE) - 30 Marks-

(Each question Carry 10 Marks)

| Q. No. | QUESTIONS | Marks | COs | KL | PO |
|--------|--|-------|-----|----|-----|
| 8 | What are the 7 differences between RAM and ROM? | 10 | CO1 | K3 | PO3 |
| 9 | What do you mean by virtual memory? | 10 | CO4 | K2 | PO2 |
| 10 | Discuss any six ways of improving the cache performance. | 10 | CO1 | K2 | PO3 |
| 11 | Discuss about priority interrupt. | 10 | CO4 | K3 | PO3 |
| 12 | Explain the Differences between CISC and RISC. | 10 | CO1 | K1 | PO1 |

CO- Course Outcomes,

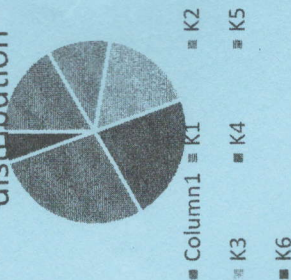
KL- Knowledge Level,

PO – Program Outcome

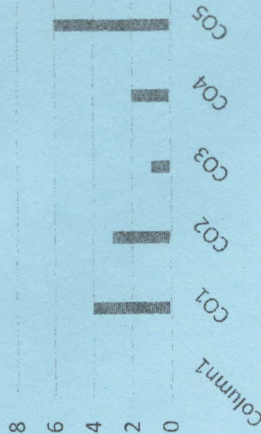
| | |
|-----|--|
| CO1 | To facilitate the students with the concepts of Indian traditional knowledge and to make them understand the importance of roots of knowledge system. |
| CO2 | To promote fundamental to protecting and promoting indigenous peoples' cultures and identifies among the students |
| CO3 | To facilitate students with the concept of sustainability of livelihoods, resilience to human-made and natural disasters and sustaining culturally appropriate economic development. |
| CO4 | To understand and develop moral values among the students |
| CO5 | Familiarize with the principles of Yoga and its benefits |

GRAFICAL REPRESENTATION

Bloom's taxonomy Wise distribution



Course Outcome Wise Marks Distribution



ARKAJAIN University
Jharkhand

END TERM EXAMINATION
School of Engineering & IT

| | | | |
|---------------------------------|---|---------------------------------|----------------------------------|
| Branch | Computer science & Engineering | Program | Diploma |
| Subject Name | Essence of Indian Knowledge Tradition | Semester | 3rd |
| | | Year | 2023/Odd |
| Time: 3 Hour Max. Marks : 70 | <ul style="list-style-type: none"> Start writing from 2nd page onwards; don't Write on the 1st Page Backside Answer all Questions of Section A (Compulsory) Answer Any Four out of Six of Section B Answer Any Three out of Five of Section C Possession of Mobile Phones or any kind of Written Material, Arguments with the Invigilator or Discussing with Co-Student will comes under Unfair Means and will Result in the Cancellation of the Papers. | | |
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Section A (Each question Carry 02 Marks from Q1-i to Q1-x) – 20 Marks

| Q.N1 | QUESTIONS | Marks | COs | KL | PO |
|------|--|-------|-----|----|-----|
| i | Write a few lines about the Vedas. | 2 | CO2 | K1 | PO1 |
| ii | Mention two tips to lead a Satvik life | 2 | CO3 | K3 | PO1 |
| iii | What do you mean by holistic health? Explain in your own words. | 2 | CO5 | K2 | PO2 |
| iv | Why is Aryabhata famous in science? | 2 | CO4 | K5 | PO1 |
| v | Which Indian scientist's work is considered to be the earliest research towards a binary system? | 2 | CO4 | K5 | PO2 |
| vi | What are Doshi in the Ayurvedic sense? | 2 | CO1 | K1 | PO6 |
| vii | Who is the father of Yoga? Mention his famous work in Yoga philosophy. | 2 | CO5 | K1 | PO2 |
| viii | Why are the Upanishads famous? | 2 | CO5 | K5 | PO2 |
| ix | Give your views on Gandharvaveda. | 2 | CO1 | K3 | PO1 |
| x | How important is it to have a balanced diet? | 2 | CO5 | K4 | PO6 |


Section B (Answer any FOUR out of SIX) - 20 Marks**(Each question 5 Marks)**

| Q. No. | QUESTIONS | Marks | COs | KL | PO |
|--------|---|-------|-----|----|-----|
| 2 | Write a short note on the Vedas. | 5 | CO1 | K2 | PO2 |
| 3 | What is the importance of moral values in modern times? Give your views | 5 | CO4 | K5 | PO6 |
| 4 | Who is called the father of linguistics? Elucidate his contribution to the development of literature & science. | 5 | CO3 | K1 | PO2 |
| 5 | Explain the 6 Vedangs. | 5 | CO1 | K4 | PO6 |
| 6 | What are the steps you would take to lead a healthy lifestyle? | 5 | CO5 | K3 | PO6 |
| 7 | Describe the Dhanurveda. | 5 | CO2 | K5 | PO2 |

Section C (Answer any THREE out of FIVE) - 30 Marks-**(Each question Carry 10 Marks)**

| Q. No. | QUESTIONS | Marks | COs | KL | PO |
|--------|--|-------|-----|----|-----|
| 8 | What does Yoga say about spirit, body & mind? Discuss the importance of Yoga in today's life. | 10 | CO5 | K5 | PO1 |
| 9 | Name five ancient Indian scholars & scientists. What is their contribution to modern science? | 10 | CO2 | K4 | PO6 |
| 10 | Create a plan to keep yourself healthy by following the principles of the Yoga philosophy. | 10 | CO5 | K6 | PO1 |
| 11 | Elucidate the importance of the four Vedas | 10 | CO1 | K4 | PO1 |
| 12 | What is the meaning of Upveda? | 10 | CO1 | K3 | PO1 |

(35)

| | | | |
|---|--|---|-----------------|
|  ARKAJAIN University Jharkhand | | END TERM EXAMINATION School of Engineering & IT | |
| Branch | Computer Science & Engineering | Program | Diploma |
| Subject Name | Python Programming | Semester | 3rd |
| | | Year | 2023 / Odd |
| Time: 3 Hour Max. Marks : 70 | <ul style="list-style-type: none"> Start writing from 2nd page onwards; don't Write on the 1st Page Backside Answer all Questions of Section A (Compulsory) Answer Any Four out of Six of Section B Answer Any Three out of Five of Section C Possession of Mobile Phones or any kind of Written Material, Arguments with the Invigilator or Discussing with Co-Student will come under <u>Unfair Means</u> and will <u>Result in the Cancellation of the Papers.</u> | | |
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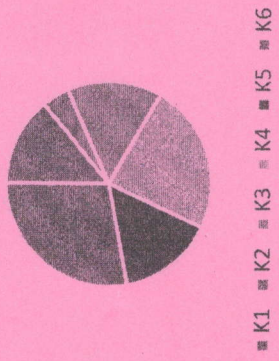
| Section A (Each question Carry 02 Marks from Q1-i to Q1-x) – 20 Marks | | | |
|---|---|-------|-----|
| Q. N1 | QUESTIONS | Marks | PO |
| i | Give an examples of loop statement? | 2 | PO2 |
| ii | Give an examples of do- while condition? | 2 | PO3 |
| iii | Write a function to find a factorial of a number? | 2 | PO1 |
| iv | Name the different types of operators? | 2 | PO4 |
| v | Find type of data structure using type() function? | 2 | PO3 |
| vi | What is Mutable and Immutable? | 2 | PO2 |
| vii | Give an example of dictionary in Python? | 2 | PO3 |
| viii | Give an example of Empty tuple? | 2 | PO3 |
| ix | Create a Python Tuple With one Element? | 2 | PO1 |
| x | Name the different Data types which we use in python? | 2 | PO4 |

CO- Course Outcomes, **KL-** Knowledge Level, **PO –** Program Outcome

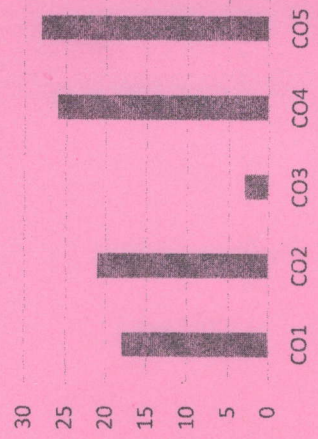
| | |
|-----|---|
| CO1 | Demonstrate the basic techniques used to create scripts for automating system administrative tasks. |
| CO2 | Demonstrate the use of regular expressions in processing text. |
| CO3 | Construct web scraping scripts to programmatically obtain data and content from web Pages. |
| CO4 | Design, code, and test applications using Python scripts. |
| CO5 | Frame work with different scripting language. |

GRAFICAL REPRESENTATION

Bloom's Level wise Marks Distribution



Course Outcome Wise Marks Distribution



Section B (Answer any FOUR out of SIX) – 20 Marks

(Each question 5 Marks)

| Q.No. | QUESTIONS | Marks | COs | KL | PO |
|-------|---|-------|-----|----|-----|
| 2 | Define list, Tuple, Dictionaries. | 5 | CO2 | K3 | PO3 |
| 3 | Write a program that read a Data as an integer in the format add (ddmmYYYY), the program will call a function that print out the Data. <DATA > <MONTH NAME> <YEAR> | 5 | CO4 | K2 | PO2 |
| 4 | Write a program to print a Palindrome Number. Take input by user side. | 5 | CO3 | K2 | PO3 |
| 5 | Write a program to print a Fibonacci Series. | 5 | CO4 | K2 | PO2 |
| 6 | Write a python program to sort a list of tuples alphabetically? | 5 | CO3 | K3 | PO1 |
| 7 | Check if an Item Exists in the Python Tuple? | 5 | CO2 | K2 | PO4 |

Section C (Answer any THREE out of FIVE) – 30 Marks-

(Each question Carry 10 Marks)

| Q.No. | QUESTIONS | Marks | COs | KL | PO |
|-------|---|-------|-----|----|-----|
| 8 | Check whether a given key already exists in a dictionary? | 10 | CO1 | K3 | PO3 |
| 9 | Create nested dictionary using given list? | 10 | CO4 | K2 | PO2 |
| 10 | Find the size of a Tuple in python? | 10 | CO1 | K2 | PO3 |
| 11 | Write a python program to test if a variable is a list or tuple or a set? | 10 | CO4 | K3 | PO3 |
| 12 | Write a python program to sort a list of tuples by the second item? | 10 | CO1 | K1 | PO1 |