



END SEMESTER EXAMINATION QUESTION PAPER

CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR II - SEMESTER II

AESTHETIC EDUCATION - BDP 4102

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2022.10.21
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 marks

Answer five (5) Question only

QUESTION 1

1. Aesthetics has many of definitions.

- i. Select and write one most appropriate definition. (2 Marks)
- ii. Write four main aesthetic subjects. (4 Marks)
- iii. What are the different subjects belonging to aesthetics under general education in Sri Lanka? (6 Marks)
- iv. Plato considered one particular subject is most important among all the aesthetic subjects. Nominate that and explain briefly why is it such important? (8 Marks)

Total (20 Marks)

QUESTION 2

2. In the current situation of the country, teachers should teach the subject matter aesthetically:

- i. Write two advantages of aesthetical approaches as an IT teacher. (2 Marks)

- ii. Does aesthetic appreciation help teachers teach confidently?
Write 4 short facts. (4 Marks)
- iii. Write any 6 key words that you can give your students to surf web
to find aesthetic Knowledge. (6 marks)
- iv. How basic knowledge of aesthetics help you to find most relevant
clips from web? Explain with examples. (8 Marks)
- Total (20 marks)

QUESTION 3

3. "From the age of 5 to 18, studying of only two subjects is enough"
- i. Out of these two, one subject is music. What is the other subject and who stated
that? (2 Marks)
- ii. To develop balanced personality, how do these two subjects help? Explain briefly.
(4 Marks)
- iii. Among the main music traditions which tradition is most importantly studied
since childhood? Explain the nature of that tradition of music? (6 Marks)
- iv. If activities are mostly done being seating. How do you explain your students to
love and associate with these two subjects, to develop a mentally & physically
healthy life? (8 Marks)
- Total (20 Marks)

QUESTION 4

4. In the 21st century we need a "Thinking School and Learning Society" said by
educationists, psychologists and sociologists.
- i. Name two suitable patriotic songs for students to improve their
thinking process. (2 Marks)
- ii. Write 4 main criterion you need to consider when selecting songs
for school activities. (4 Marks)
- iii. "Developing thinking process is better than giving knowledge".
Explain why and the role of aesthetics in this regard. (6 Marks)
- iv. When we select a piece of art for an entertaining event in School,
It is important to consider our cultural and moral values. Briefly
Comment in your point of view. (8 Marks)
- Total (20 Marks)

QUESTION 5

5 "Though we are global citizens, we need to show our cultural identity whenever we should"

- i. Under which dancing tradition in Sri Lanka, "Kolam" and "Sokari" fall? (2 Marks)
- ii. Write four Sri Lankan dance items performed wearing masks (Wes muhunu) (4 marks)
- iii. "Mental and physical health benefits can be gained by involving in aesthetic activities". Briefly discuss (6 Marks)
- iv. "In socializing students aesthetic appreciation plays very important role in general education", comment. (8 Marks)

Total (20 Marks)

QUESTION 6

6 "IT is mostly associated with aesthetics and creativity"

- i. Write two reasons why aesthetic skills are needed. (2 Marks)
- ii. Write four main music traditions you can find all over the world. (4 Marks)
- iii. Name six different art forms that can be seen in the World. (6 Marks)
- iv. "Aesthetic appreciation and Basic knowledge are must to be a creative IT teacher to teach effectively" Raise your ideas positively. (8 Marks)

Total (20 Marks)

-----END OF THE QUESTION PAPER -----



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Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR II - SEMESTER II

ADVANCED PROGRAMMING - BDI4104

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2022.10. 20
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
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- There are SEVEN (07) questions in this paper.
- This paper contains six (06) pages.
- Excluding the Compulsory question-answer any four (04) questions.
- You may use appropriate graphs, diagrams, equation/s to prove or justify the answers.
- If you have any doubt as to the interpretation of the wording of a question, make your own decision, but clearly state it on the script.

Question 01 (Compulsory)

(20 Marks)

- | | |
|--|------------|
| (a) Mention two (02) benefits of using Python? | (02 Marks) |
| (b) What are the built-in functions that are used in Tuple? | (02 Marks) |
| (c) What are functions in Python? | (04 Marks) |
| (d) What are the key features of Python? | (04 Marks) |
| (e) What are local variables and global variables in Python? | (08Marks) |

Question 02

(20 Marks)

- (a) What are negative indexes and why are they used?
 (b) What is the output produced by this program given below.

(04 Marks)

(06 Marks)

```
i. words = 'hello world'
   print words.title()
   print
   words.replace(world,'Oswal')
   print words.upper()
   print words*2
```

- (c) Assuming num=125, determine the value of each of the following python expressions.

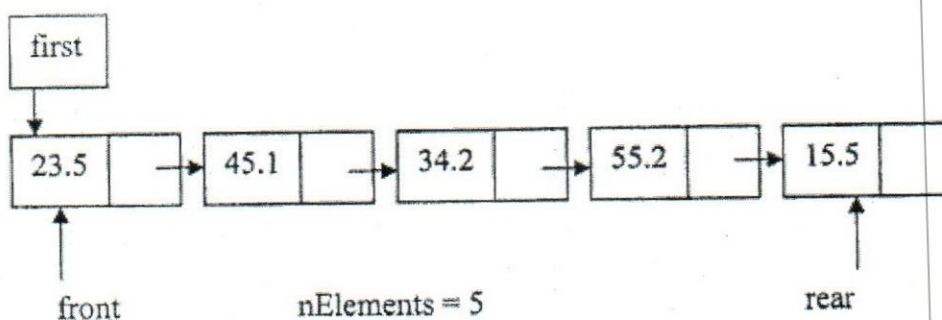
(10 Marks)

- i. num/125
- ii. num%100
- iii. (num==21)&(2<3)
- iv. not((num<45.9)&(6*2<=13))

Question 03

(20 Marks)

- (a) Assume that you are given the following Linear Queue, which has been implemented using a linked list to store a set of float values. Draw a set of queue representations after executing the following operations. (Note that you have to label the front rear and the number of elements in the queue). (10 Marks)



- I. Enqueue (50.3);

- II. Enqueueer (62.5)
- III. Dequeueer();
- IV. PeekFront();
- V. Dequeueer();

(b) Briefly answer the following questions.

(10 Marks)

- I. What is the advantage in Circular Queue?
- II. What are the differences between a Linear Queue and a Circular Queue?
- III. State an advantage of using a linked list to implement a stack compared to an array?

Question 04

(20 Marks)

(a) Write all the steps to delete the link "Dasun" from the following link list.
(05 Marks)



(b) Write all the steps to delete link "10" from following link list.

(05 Marks)



(c) Write all the steps to insert the new link "65" as the first link of the link list.

(05 Marks)



(d) Write all the steps to insert the new link "Amal" after the link "Dasun" of the link list. (Hint: You should insert the newlink in between "Dasun" and "Kusal").
(05 Marks)



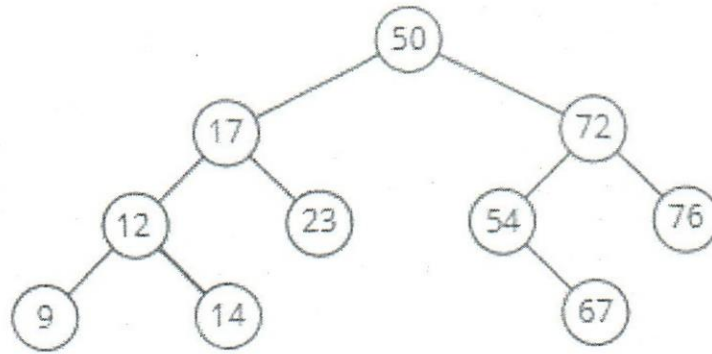
Question 05**(20 Marks)**

- (a) What is a data structure? Briefly explain. (04 Marks)
- (b) Write four (04) functions used in the Stack data Structure. (04 Marks)
- (c) Draw the stack frames after performing each operations given below. Maximum size of the stack is five (05). (12 Marks)

- I. Push(11)
- II. Push(20)
- III. Pop()
- IV. Push(40)
- V. Push(60)
- VI. Push(70)
- VII. Push(80)
- VIII. Push(100)
- IX. Push(85)
- X. Pop()
- XI. Pop()
- XII. Push(90)

Question 06**(20 Marks)**

- (a) How do you explain a 'Tree Data Structure'? Briefly explain. (02 Marks)
- (b) What is the tree representation after deleting given nodes?
(Hint: Part 1 and 2 are interrelated operations. After completing part 1, take that answer to provide the answer to part 2.)
1. Delete(12)
 2. Delete(72)
- (08 Marks)



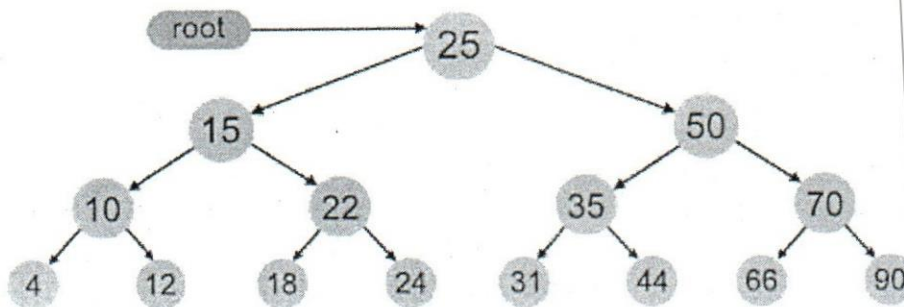
(c) The following data is inserted into a binary tree. Draw the binary tree after inserting data and explain the inserting methodology. (10 Marks)

55 75 62 12 85 80 44 03 35 95

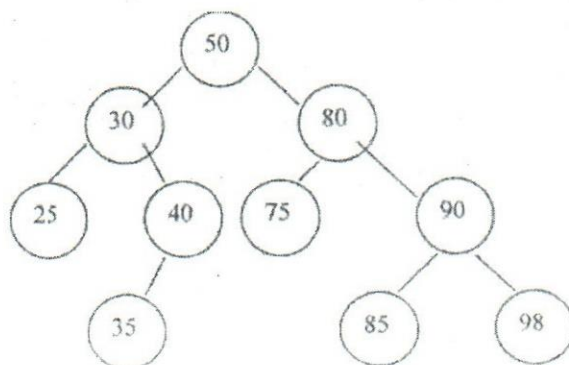
Question 07

(20 Marks)

(a) Write InOrder, PreOrder and PostOrder for the given tree below. (08 Marks)



(b) Consider the following Binary tree and answer the given questions. (12 Marks)



- I. What is the Depth of 75? (02 Marks)
- II. What is the Height of 35? (02 Marks)
- III. How many levels are there in the above tree? (02 Marks)
- IV. Is the above tree a **Strictly Binary Tree** ? Give Reasons. (02 Marks)
- V. What is a **Complete Binary Tree**? Draw a complete Binary tree with 3 levels. (Do not need to store values, just draw blank nodes) (02 Marks)
- VI. What should you do to the above Binary Tree to make it **almost complete Binary Tree**? (02 Marks)

-----END OF THE QUESTION PAPER-----



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CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR II - SEMESTER II

ADVANCED PROGRAMMING - BDI4104

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2022.10. 20
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
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Question 01 (Compulsory)

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i. words = 'hello world'
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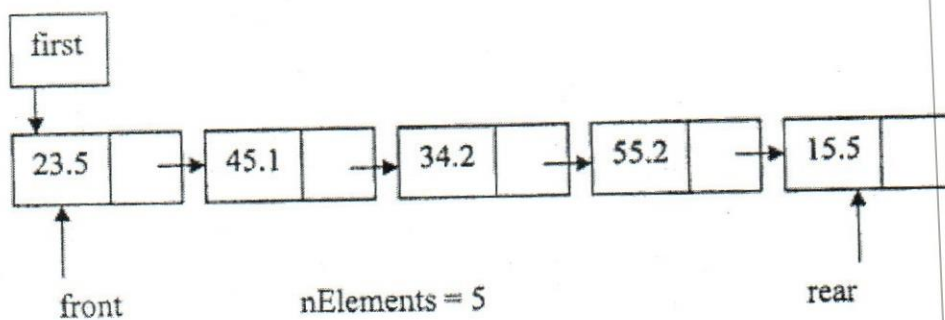
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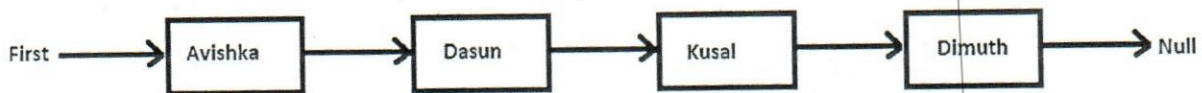
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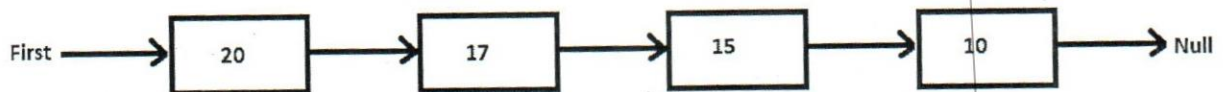
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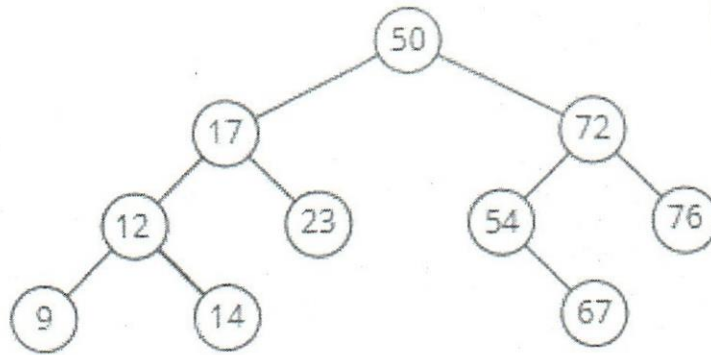
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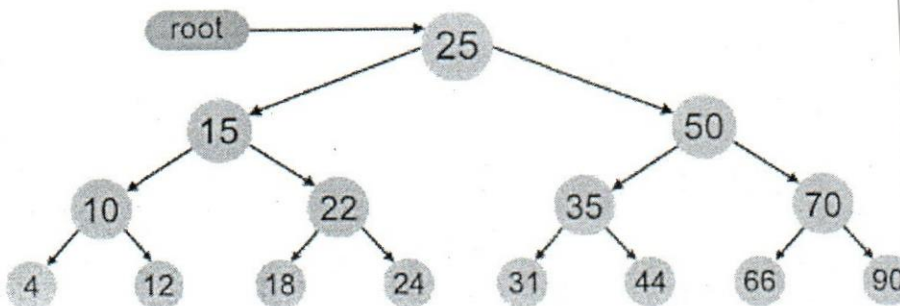
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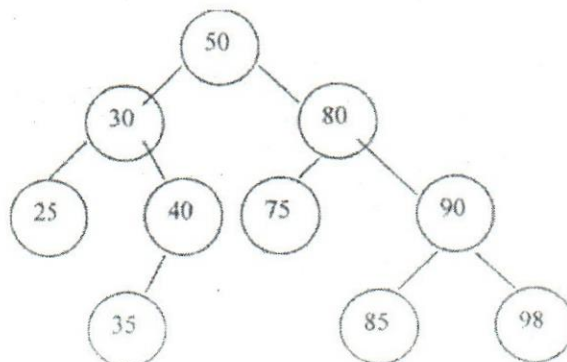
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-----END OF THE QUESTION PAPER-----

library



END SEMESTER EXAMINATION QUESTION PAPER

Code - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

Course Code: LC - 0851

Year II - Semester II

WEB APPLICATION DEVELOPMENT - BDI4064

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2022.10. 18
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 marks

Answer five questions only

Question 1

Computer networks are the vital platform for Web applications to operate.

- (i) Describe the term 'Protocol'. List and briefly describe 3 key protocols used on Internet. (8 marks)
- (ii) List a similarity and difference of 'Peer-to-Peer' and 'Client-Server' Model of networks on internet. (4 marks)
- (iii) Brief the function of 'Routing' and the device critical for this in networks (4 marks)
- (iv) Write a MS-DOS command to trace the routing hops from a PC connected to internet for www.cinec.edu. (4 marks)

(Total marks =20)

Question 2

- (i) Explain the importance of Packet switching networks for modern networks (3 marks)
- (ii) Draw the Internet Protocol stack and briefly describe each layer. (11 marks)
- (iii) Describe the 2 main types of websites briefly. (2 marks)
- (iv) List 2 core technologies used for each of the main website types. (4 marks)

(Total marks =20)

Question 3

Web Servers play a vital role in the operation of Web Applications

- (i) Briefly explain the role of Web Server in running web applications. (5 marks)
- (ii) Describe what the "HTTP response: Error 404 Not found" error means. (5 marks)
- (iii) List 3 popular web server products. (3 marks)
- (iv) List the 3 tiers of Web application Architecture (3 marks)
- (v) Explain the most important characteristic of a 'web service' (4 marks)

(Total marks =20)

Question 4

- (i) Briefly explain the importance of CSS in developing websites (4 marks)
- (ii) Briefly describe the purpose of CSS selectors (4 marks)
- (iii) Explain the Term 'CDN' in Bootstrap with its purpose (4 marks)
- (iv) Describe the advantages of DIV tag over TABLE to define layout of a web page (8 marks)

(Total marks =20)

Question 5

Security and Privacy of information over the internet is critical to the smooth operation and expansion of e-commerce.

- (i) Describe and differentiate 'Privacy' and 'Security' in terms of Information over the internet (4 marks)
- (ii) List 2 examples of privacy sensitive information. (4 marks)
- (iii) Identify 2 methods used to track users over the internet (4 marks)
- (iv) List and briefly describe 2 solutions applicable to ensure Privacy and security over the internet. (8 marks)

(Total marks =20)

Question 6

- (i) Explain the key functions of a CRUD model which will manage data within a web application. (8 marks)
- (ii) In theory, it is mentioned to use a separate database table for each Entity identified in system. Describe this rule mentioning whether you agree or not. (6 marks)
- (iii) If the SqlConnection object used in C# is 'conn', explain the purpose of statement "conn.close" (3 marks)
- (iv) List and describe 3 common data formats supported by MS SQL Server databases. (3 marks)

(Total marks =20)

Question 7

e-Commerce generally refers to any trade conducted using electronic forms. MS Visual Studio provides many features and facilitations to develop e-commerce web applications.

- (i) Identify and describe 4 main components of e-commerce. (8 marks)
- (ii) Provide a brief explanation for 'Entity Classes' in Visual Studio.net (4 marks)
- (iii) Explain the importance of using Master pages when developing e-commerce applications. (4 marks)
- (iv) List 2 components offered to be customized in Master Pages of ASP.net Web Forms Templates. (4 marks)

(Total marks =20)

-----*END OF THE QUESTION PAPER*-----

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END SEMESTER EXAMINATION QUESTION PAPER

CODE - 2P

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR II - SEMESTER II

Subject: Value Education- BDP4122

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2022.10.17
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 marks

This paper contains SIX (5) Questions. You need to answer Four questions only.

Question 1

- 1) Presently, education is not just confined to books. It goes much beyond that and child's holistic development is very important. Therefore, parents focus on value education along with academic performance.
- (i). Explain the importance of value education? (5 Marks)
- (ii). Why is value education needed at the school level? (8 Marks)
- (iii). Explain the types of values to be inculcated within students. (12 Marks)

Question 2

- 2) Value education helps the students to become more and more responsible and sensible. It helps them to understand the perspective of life in a better way and lead a successful life as a responsible citizen.

- (i). Explain the ways to overcome value conflicts. (5 Marks)
- (ii). Explain the need of Value Education in primary School Curriculum (8 Marks)
- (iii). Suggest activities for the inculcation of social and moral values. (12 Marks)

Question 3

- 3) School culture has become a central concept in many efforts to change how schools operate and improve educational results. School cultures can be divided into two basic forms: positive cultures and negative cultures.
- (i). What do you mean by school culture? (5 Marks)
 - (ii). What is the teacher's role in establishing a positive school culture? (8 Marks)
 - (iii). Explain the role of hidden curriculum in the context of teaching values. (12 Marks)

Question 4

- 4) Good education system can provide ground rules for social life for adults and young people, and it stresses the importance of helping children learn and practice behaviors that reflect universal ethical values.
- (i). Mention at least three negative effects of socialization. (5 Marks)
 - (ii). Explain the role of the family as an agent of value education. (8 Marks)
 - (iii). Discuss the need and importance of Family values in life. (12 Marks)

Question 5

- 5) Moral development is one of the most significant aspects of personality development. It is thus a major task of society and education. Moral- development proceeds along with social development.
- (i). Explain Piaget's stages of moral development. (5 Marks)
 - (ii). Discuss the need and importance of value education in the 21st century scenario. (8 Marks)
 - (iii). What is human rights education and its importance? (12 Marks)

-----END OF THE QUESTION PAPER -----



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CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR II - SEMESTER II

ADVANCED PROGRAMMING - BDI4104

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2021.12.10
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Question 01 (Compulsory)

(20 Marks)

- | | |
|---|------------|
| (a) What is the difference between list and tuples in Python? | (04 Marks) |
| (b) What are functions in Python? | (04 Marks) |
| (c) What are the key features of Python? | (04 Marks) |
| (d) What are local variables and global variables in Python? | (08Marks) |

Question 02**(20 Marks)**

- (a) What are negative indexes and why are they used?
 (b) What are the built-in types of python?
 (c) Write a Python program to add an item in a tuple.

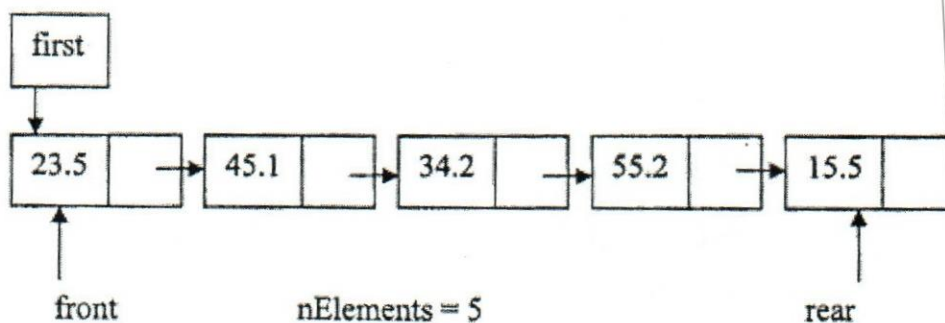
(04 Marks)

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Question 03**(20 Marks)**

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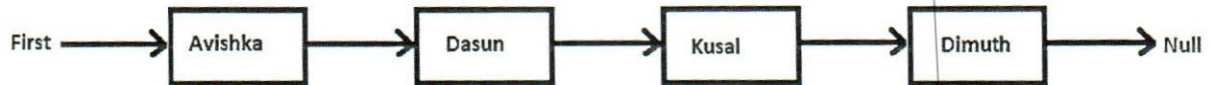
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Question 04**(20 Marks)**

(a) Write all the steps to delete the link "Kusal" from the following link list. (05 Marks)

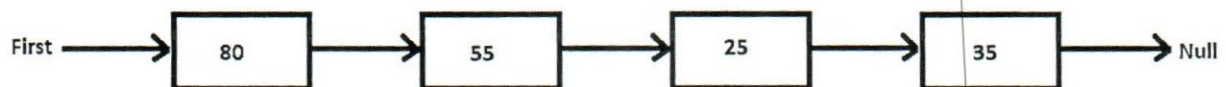


(b) Write all the steps to delete link "20" from following link list. (05 Marks)



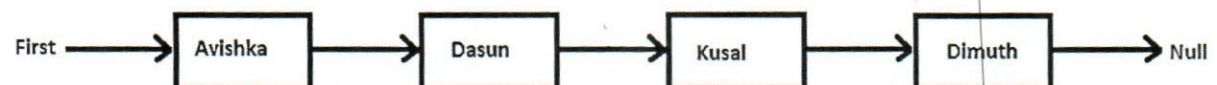
(c) Write all the steps to insert the new link "75" as the first link of the link list. (05 Marks)

(05 Marks)



(d) Write all the steps to insert the new link "Bhanuka" after the link "Kusal" of the link list. (Hint: You should insert the newlink in between "Kusal" and "Dimuth".

(05 Marks)

**Question 05****(20 Marks)**

(a) What is a data structure? Briefly explain. (04 Marks)

(b) Write four (04) functions used in the Stack data Structure. (04 Marks)

(c) Draw the stack frames after performing each operations given below. Maximum size of the stack is five (05). (12 Marks)

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Question 06

(20 Marks)

(a) How do you explain a 'Tree Data Structure'? Briefly explain.

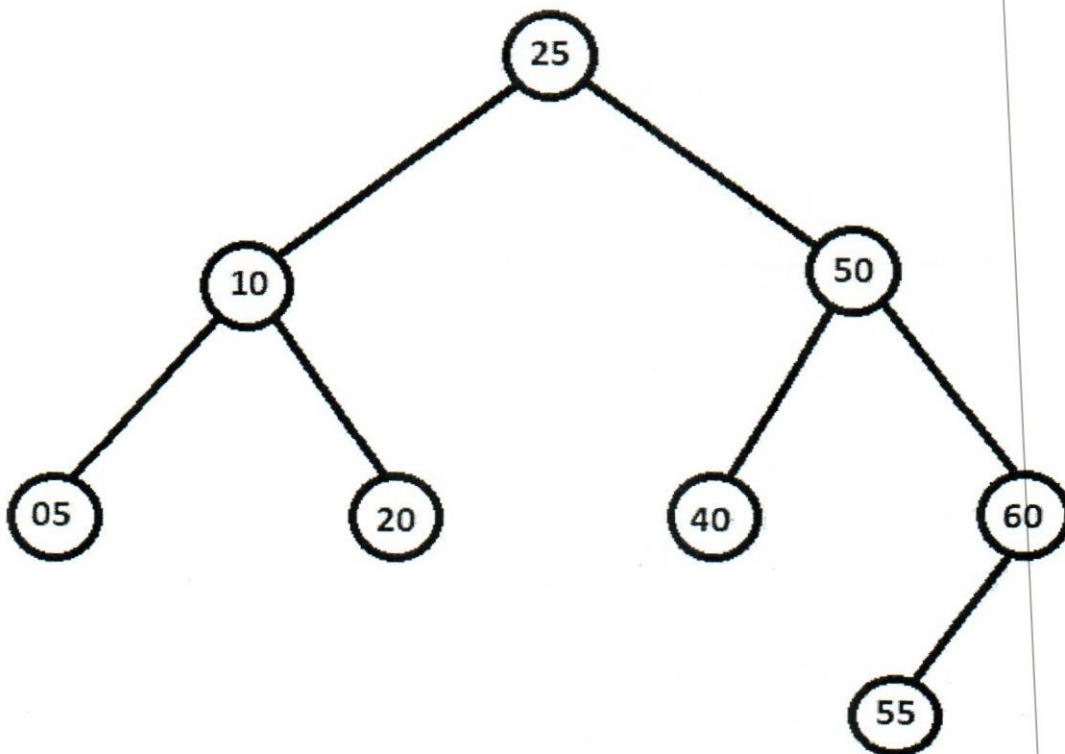
(02 Marks)

(b) What is the tree representation after deleting given nodes?

(Hint: Part 1 and 2 are interrelated operations. After completing part 1, take that answer to provide the answer to part 2.)

1. Delete(20)
2. Delete(50)

(08 Marks)



(c) The following data is inserted into a binary tree. Draw the binary tree after inserting data and explain the inserting methodology. (10 Marks)

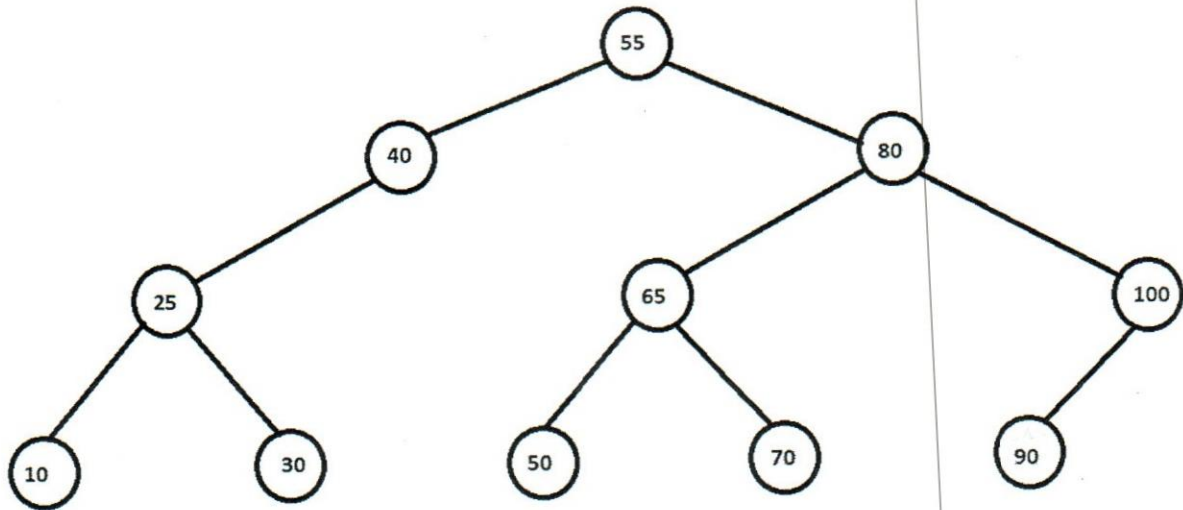
50 70 60 10 85 80 45 03 48 95

Question 07

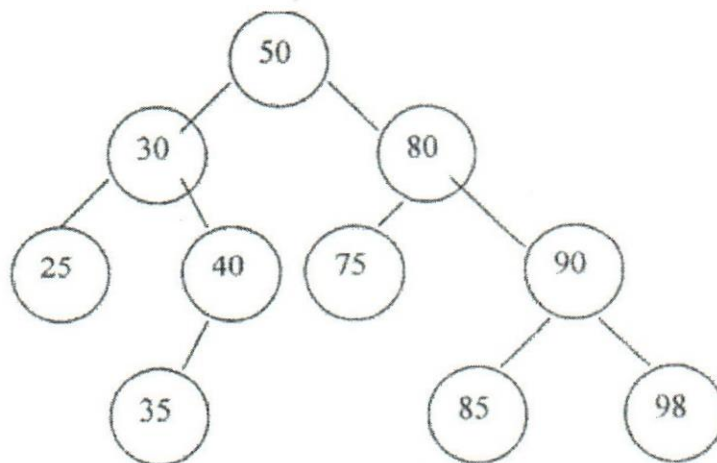
(20 Marks)

(a) Write InOrder, PreOrder and PostOrder for the given tree below.

(08 Marks)



(b) Consider the following Binary tree and answer the given questions. (12 Marks)



- I. What is the Depth of 98?
- II. What is the Height of 30?
- III. How many levels are there in the above tree?
- IV. Is the above tree a **Strictly Binary Tree** ? Give Reasons.

(02 Marks)

(02 Marks)

(02 Marks)

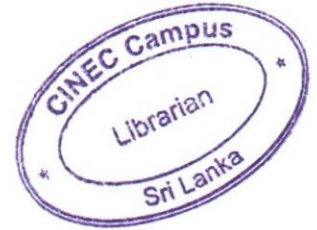
(02 Marks)

- V. What is a **Complete Binary Tree**? Draw a complete Binary tree with 3 levels. (Do not need to store values, just draw blank nodes) (02 Marks)
- VI. What should you do to the above Binary Tree to make it **almost complete Binary Tree**? (02 Marks)

-----END OF THE QUESTION PAPER-----

Library

00019



END SEMESTER EXAMINATION QUESTION PAPER

CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR II - SEMESTER II

Design and Analysis of Algorithms - BDI4094

Faculty	Department / Section / Division
Management, Humanities and Social Sciences	Education and Languages

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2021.12.09
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 marks

**This paper consists eight (08) questions in six (06) pages.
Answer for five (05) questions including the compulsory question.**

Question 01 (Compulsory)

“An algorithm is a set of well-defined instructions in sequence to solve a problem.”

- (i) Briefly explain the relationship between the algorithm and the code (02 marks)
- (ii) What are the three ways of representing an algorithm? List them. (03 marks)
- (iii) List down five (05) sorting algorithms. (05 marks)
- (iv) What do you mean by “Recursive algorithm”? Briefly explain your answer. (05 marks)
- (v) Briefly explain “Divide and Conquer” algorithm with an example. (05 marks)

(Total marks =20)

Question 02

(i) Dry-run and show how the given algorithm solve a problem.

(20 marks)

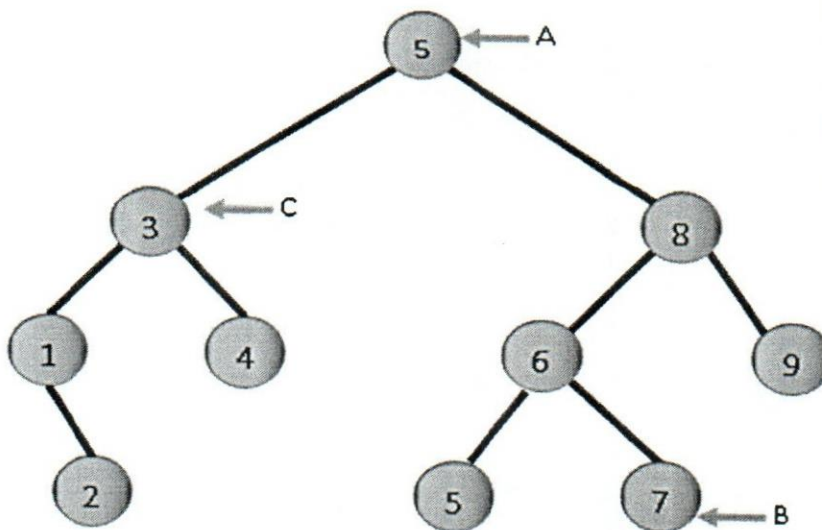
SELECTION SORT(A)

1. $n \leftarrow \text{length}[A]$
2. for $j \leftarrow 1$ to $n-1$
3. do $\text{smallest} \leftarrow j$
4. for $i \leftarrow j+1$ to n
5. do if $A[i] < A[\text{smallest}]$
6. then $\text{smallest} \leftarrow i$
7. exchange $A[j] \leftrightarrow A[\text{smallest}]$

(Total marks =20)

Question 03

- (i) What is a "Data Structure"? Briefly explain the answer. (04 marks)
- (ii) Briefly write the difference between "Circular Queue" and the "Linear Queue". (04 marks)
- (iii) What are the three (03) main operations in a "Link List"? List down them. (06 marks)
- (iv) Name the representation of given letters (A-C) in the following "Binary Tree". (06 marks)



(Total marks =20)

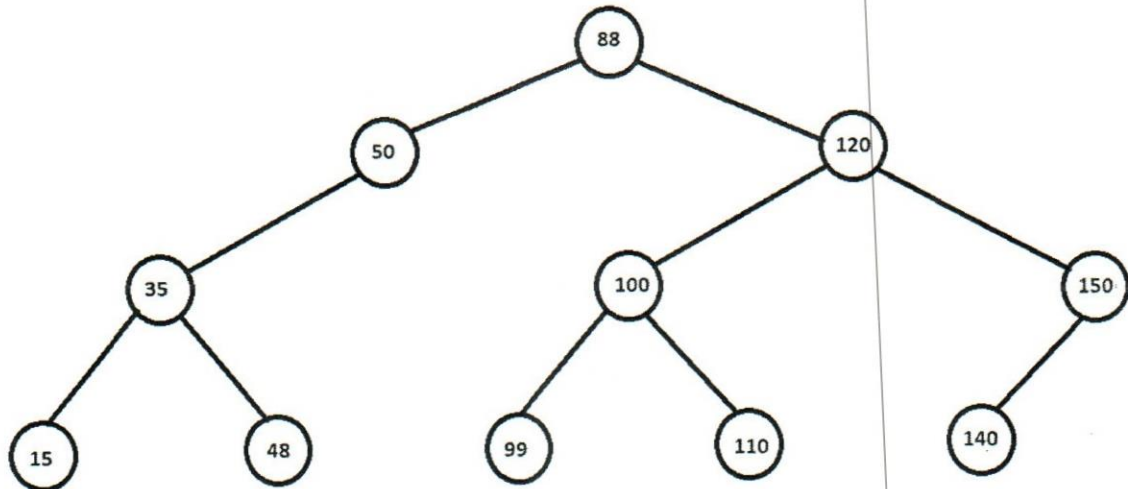
Question 04

- (i) Insert following data to a binary tree.
45,65,25,35,15,05,55,85,75,95

(10 marks)

- (ii) Write the InOrder traversing for the given tree.

(10 marks)



(Total marks =20)

Question 05

- (i) Using RAM model analysis, find out the no of steps in following algorithm. (10 marks)

```

Sum = 0
for i = 1 to n
    Sum = Sum + 1
    Print Sum
  
```

- (ii) What is the complexity of the following code segments?

(10 marks)

a.

```

public static void main(String[] args) {
    int num = 1;
    while(num <= 10) {
        System.out.println(num);
        num++;
    }
    System.out.println("Statement after while!");
}
  
```

b.

```

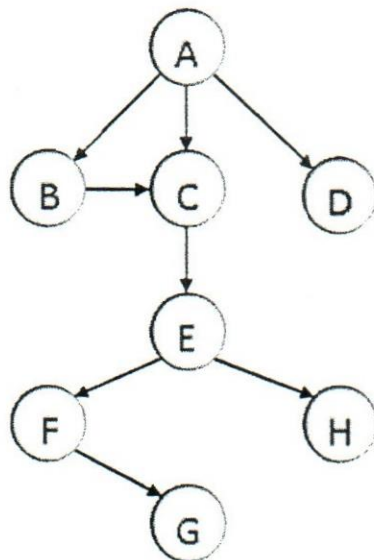
public static void main(String args[]){
    int i,x;
    for(i=0;i<2;i++){
        for(x=0;x<4;x++){
            System.out.print("*");
        }
    }
    System.out.println(" ");
}

```

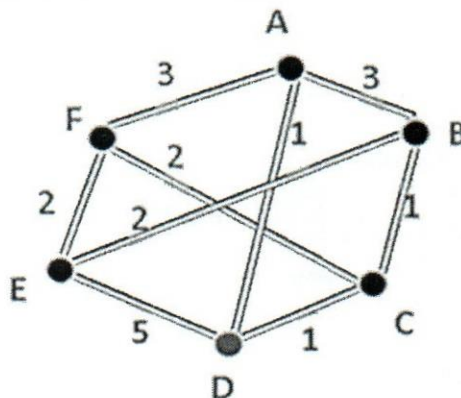
(Total marks =20)

Question 06

- (i) Travel through the graph by using Depth-first search (DFS) and (Breadth-first search) BFS. (10 marks)



- (ii) By using Kruskal's algorithm find the Minimum Cost Spanning Tree (MSCT) for the following graph. Algorithm is given for your information. (10 marks)



MST-KRUSKAL(G, w)

```

1  $A \leftarrow \emptyset$ 
2 for each vertex  $v \in V[G]$ 
3   do MAKE-SET ( $v$ )
4 sort the edges of  $E$  into non decreasing order by weight  $w$ 
5 for each edge  $(u, v) \in E$ , taken in non decreasing order by weight
6   do if FIND-SET ( $u$ )  $\neq$  FIND-SET ( $v$ )
7     then  $A \leftarrow A \cup \{(u, v)\}$ 
8         UNION( $u, v$ )
9 return  $A$ 

```

(Total marks =20)

Question 07

- (i) Using naive string-matching algorithm, find the shifts where the pattern is matching with. Algorithm is given for you. (20 marks)

Text String (T)

0	0	0	1	0	1	0	0	0	1	1	0	0	1	0
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Pattern (P)

0	0	1	0
---	---	---	---

Naïve-String-Matcher (T, P)

```

1  $n = T.length$ 
2  $m = P.length$ 
3 for  $s = 0$  to  $n-m$ 
4   if  $P[1..m] = T[s+1..s+m]$ 
5     print "Pattern occurs with shift"  $s$ 

```

(Total marks =20)

Question 08

- (i) Write two (02) data compression techniques.
(ii) Find the Huffman code for the given text.

(04 marks)

(16 marks)

Text: EAEABEDCEA Frequency of characters: Characters: A B C D E Frequency: 12 12 25 30 32
--

(Total marks =20)

-----END OF THE QUESTION PAPER-----



END SEMESTER EXAMINATION QUESTION PAPER
CODE - QP

Approved for Quality Management System

Education & Training Course: B.Ed (Honours) in Information Technology

Course Code: LC - 0851

Year II - Semester II

WEB APPLICATION DEVELOPMENT - BDI4084

Faculty	Department / Section/Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2021.12.08
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 marks

Answer five (05) questions only

Question 1

Computer networks are the vital platform for Web applications to operate.

- (i) Describe the term 'Internet'. Explain in summary what kind of computer arrangement it has and its span area. (5 marks)
- (ii) Briefly explain the unique feature of the internet over other older WANs such as Frame Relay and ATM (4 marks)
- (iii) Brief the function of 'Network protocol' and list **two** examples. (5 marks)
- (iv) Identify the **three** most popular types of e-commerce applications on the internet and describe them briefly (6 marks)

(Total marks =20)

Question 2

- (i) Differentiate "Packet" and "Circuit" switching networks not more than using **four** points i. (6 marks)
- (ii) Briefly describe the following:
 - a. TDM
 - b. FDM (4 marks)
- (iii) WWW is primarily based on Client-Server Architecture.
 - a. Describe the role of 'Server' and 'Client' in WWW. (6 marks)
 - b. Give **one** example of software involved in each of the above (4 marks)

(Total marks =20)

Question 3 – HTML is the foundation of website presentation.

- (i) Explain briefly the term 'HTML5' in your own words. Use no more than **three** new features. (5 marks)
- (ii) Explain purpose and operation of CSS in website development. (5 marks)
- (iii) Write the basic HTML code to display content within the rectangle below:

Welcome to Sri Lanka Touring Portal

Today's Travel destinations are given below:

- Whale Watching in Galle
- Visit to Galle Fort
- Full day Safari at Tangalle

(10 marks)

(Total marks =20)

Question 4

- (i) Identify and brief **three** benefits of using Java scripting for Client side dynamic web pages. (6 marks)
- (ii) Describe the term 'Document object model' in javascript. (2 marks)
- (iii) Write a single line javascript code to display an alert box from current window. (6 marks)
- (iv) Briefly describe the use of Adobe Dreamweaver as a web design tool highlighting **two** of its features. (6 marks)

(Total marks =20)

Question 5

- (i) Describe and differentiate 2-tier and 3-tier Architecture using minimum **two** points and diagrams. (6 marks)
- (ii) Explain the importance of using a platform independent Language for web Application development. (4 marks)
- (iii) Briefly describe **three** advantages of 'Cloud Computing'. (6 marks)
- (iv) Explain the term 'Web Server' and list **two** examples. (4 marks)

(Total marks =20)

Question 6

- (i) List and describe the types of CSS integration methods in HTML. (3 marks)
- (ii) Explain the Term 'CDN' in Bootstrap with its purpose. (4 marks)
- (iii) List **three** advantages of using UI Frameworks. (3 marks)
- (iv) Explain the 'Grid System' in Bootstrap framework with possible examples of tag modification. (6 marks)
- (v) Explain what element in HTML syntax is used by Bootstrap to link its libraries to your page. (4 marks)

(Total marks =20)

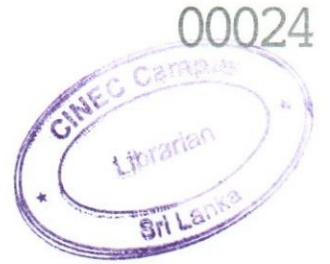
Question 7

- (i) Explain the use of a Database Server for web applications. (4 marks)
- (ii) Describe **three** examples of popular web applications using databases on the internet. (6 marks)
- (iii) List the **three** most popular Database Server products for web Applications (6 marks)
- (iv) What are the benefits of using a separate Database Server for Web applications? (4 marks)

(Total marks =20)

-----**END OF THE QUESTION PAPER**-----

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END SEMESTER EXAMINATION QUESTION PAPER
CODE - 2P

Approved for quality management system

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY
COURSE CODE: LC - 0851
YEAR II - SEMESTER II
VALUE EDUCATION - BDP4122

Faculty	Department / Section/Division
Humanities and Education	Education

Instructions to Candidates	Date of the examination: 2021.12.06
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 marks

Answer four (04) questions only

Question 1

1. Overall education of the facts of human life, including human values, which are the culmination of the evolutionary process of mankind. Due to the lack of holistic education the majority of people in human society is leading a life of ignorance and following obsolete, useless principles and beliefs.
 - a). How do you categories the values in education? (5 Marks)
 - b). Explain how values can be cultivated among students? (8 Marks)
 - c). Justify the importance of value education for students? (12 Marks)

Question 2

2. The curriculum is a total learning experience provided by the school. It includes the content of courses (the syllabus), the method employed (strategies) and other aspects like norms and values, which relates to the way schools, are organized.

- a). Explain what Hidden curriculum is (5 Marks)
- b). Describe the teaching strategies applied in hidden curriculum. (8 Marks)
- c). Discuss the importance of school culture in character building. (12 Marks)

Question 3

3. 'Value education' is essential for building the character of future citizens, teaching them good values, helps them to choose the right path, it gives moral value to students.
- a). Explain the role of parents in value education. (5 Marks)
 - b). Suggest activities for the inculcation of social and moral values. (8Marks)
 - c). Discuss the need and importance of value education in the present social setup. (12 Marks)

Question 4

4. We can be prosperous only if there is a limit to the need for physical facilities. If there is no limit what so ever be the availability the feeling of prosperity cannot be assured and just assessing the need is not enough. We need to be able to produce or make available more than the perceived need.
- a). What do you understand by prosperity? (5 Marks)
 - b). What is the difference between prosperity and wealth? (8Marks)
 - c). How are prosperity and wealth related each other? (12 Marks)

Question 5

5. Value and Values Education have often been directly addressed in studies on education sciences towards the end of the 20th century. The concept of values seems to have maintained its significance since the emergence of education itself, because almost all educational activities aim to provide individuals with certain values (Guttek, 2006).
- a). Mention the issues in teaching values in 21st century. (5 Marks)
 - b). Explain the courses of the erosion of human values in the modern age. (8 Marks)
 - c). Propose the strategies that you overcome issues in teaching values. (12 Marks)

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Page 1 of 3



END SEMESTER EXAMINATION QUESTION PAPER

CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY
COURSE CODE: LC - 0851
YEAR II - SEMESTER II
AESTHETIC EDUCATION - BDP 4102

Faculty	Department / Section / Division
Humanities and Education	Education

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2021.12.06
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 03 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 marks

Answer five (05) questions only

Question 1

I. Define aesthetics according to your point of view:

- (i) Write down one best definition for aesthetics. (2 marks)
- (ii) Nominate the four main subject areas of aesthetics. (4 marks)
- (iii) What are the 7 aesthetic subjects in operation in Sri Lankan schools? (6 marks)
- (iv) "Everyone should have a good sense of aesthetics as a human being"

Explain important points briefly (8 marks)

Total marks 20

Question 2

2. As IT teachers we need to have an adequate awareness in aesthetics to create a joyful and meaningful learning environment.
- (i) Why we need effective engagement to a lesson? Write 2 facts. (2 marks)
 - (ii) Why we need aesthetical refreshments in between the lesson units? (4 marks)
 - (iii) What are the extra advantages of having IT skills to find relevant clips? (6 marks)
 - (iv) Do you believe that aesthetical sense is a must to select the resources from web?
Explain with a practical example. (8 marks)

Total marks 20

Question 3

3. To have a better appreciation, we must have a clear knowledge and understanding of all aesthetic subject areas.
- (i) What are the 4 main music traditions? (2 marks)
 - (ii) Mention at least 2 countries that belong to each tradition worldwide. (4 Marks)
 - (iii) What do you think about the diversity of Eastern and Western traditions? Explain briefly. (6 marks)
 - (iv) Among them, which tradition you appreciate the most? Explain with your own views and ideas. (8 marks)

Total marks 20

Question 4

4. The awareness and appreciation of all aesthetic subjects are helpful for physical and psychological wellbeing in life.
- (i) What are the main dancing traditions in Sri Lanka? (2 marks)
 - (ii) Which type of music appreciation improves mental health? (4 marks)
 - (iii) Appreciation of drama improves social skills. Explain briefly. (6 marks)
 - (iv) To become a creative IT person, the knowledge of visual arts is very important.
Explain with positive comments. (8 marks)

Total marks 20

Question 5

5. "Without music life would be a mistake" – Friedrich Nietzsche
- (i) Nominate 2 most suitable children's songs for 5-10 years age group. (2 marks)
 - (ii) Write down 4 main characters of a sentimental light song. (4 marks)
 - (iii) Provide a productive outcome that can be gained from working while listening to music? (6 marks)
 - (iv) In human life, every movement and action have rhythmical expressions. Explain with our day today activities. (8 marks)

Total marks 20**Question 6**

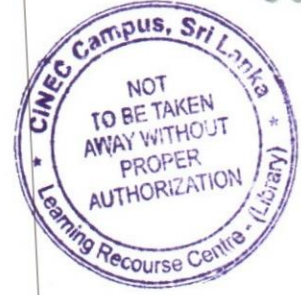
6. As we are teachers, we must have 21st century teaching skills and our duty is to develop these skills in our students.
- (i) What are the 21st century 4Cs? (2 marks)
 - (ii) How aesthetic appreciation collaborates with IT for effective communication? (4 marks)
 - (iii) To develop creativity, it's very important to have relaxation, satisfaction and entertainment. Briefly give your opinions. (6 marks)
 - (iv) IT skills and aesthetic skills can create a productive citizen to the country. Raise your own point of views. (8 marks)

Total marks 20**Total marks 20 * 5 = 100**

.....*END OF THE QUESTION PAPER*.....

Library

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MID SEMESTER EXAMINATION QUESTION PAPER

CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR 2 - SEMESTER II

ADVANCED PROGRAMMING - BDI4104

Faculty	Department / Section / Division
Humanities and Education	Education Department

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2022.05.23
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 1 1/2 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 Marks

INDEX NUMBER:

For Office use Only

Question No:	1	2	3	4	5	6	7	8	9	10	Total Marks	%	Signature
For Scrutinizer's Use Only (marks)													
For Moderator's Use Only (marks)													

Underline the correct answer/s.

(Total Mark 100)

1. What is the output of the following code?

p, q, r = 10, 20, 30

print(p, q, r)

- a. 10 20
- b. 10 20 30
- c. Error:invalid syntax
- d. None of the above

2. What is the output of the following code?

```
def calculate (num1, num2=4):  
    res = num1 * num2  
    print(res)  
  
calculate(5, 6)
```

- a. 20
- b. The program executed with errors
- c. 30
- d. None of the above

3. What is the output of the following assignment operator

```
y = 10  
x = y += 2  
print(x)
```

- a. 12
- b. 10
- c. SyntaxError
- d. None of the above

4. Select the correct output of the following String operations

```
str1 = "my isname isisis jameis isis bond";  
sub = "is";  
print(str1.count(sub, 4))
```

- a. 5
- b. 6
- c. 7
- d. None of the above

5. Which of the following operators has the highest precedence?

- a. Not
- b. &
- c. *
- d. +

6. What is the output of the following code

```
str1 = "My salary is 7000";  
str2 = "7000"
```

```
print(str1.isdigit())  
print(str2.isdigit())
```

- a. False
True
- b. False
False
- c. True
False
- d. True
True

7. Guess the correct output of the following code?

```
str1 = "PYnative"  
print(str1[1:4], str1[:5], str1[4:], str1[0:-1], str1[::-1])
```

- a. PYn PYnat ive PYnativ vitanYP
- b. Yna PYnat tive PYnativ vitanYP
- c. Yna PYnat tive PYnativ PYnativ
- d. None of the above

8. What is the output of the following function call

```
def fun1(num):  
    return num + 25
```

```
fun1(5)  
print(num)
```

- a. 25
 - b. 5
 - c. NameError
 - d. None of the above
9. Select which is true for Python function
- a. A python can return only a single value
 - b. A function can take an unlimited number of arguments.
 - c. A Python function can return multiple values
 - d. Python function doesn't return anything unless and until you add a return statement
10. What is the output of the add() function call

```
def add(a, b):  
    return a+5, b+5
```

```
result = add(3, 2)  
print(result)
```

- a. 15
- b. 8
- c. (8,7)
- d. Syntax error

11. _____ is the term used to delete an element into stack?

- a. Push
- b. Pull
- c. Pop
- d. All of the above

12. Choose the correct option

- a. In Python, a tuple can contain only integers as its elements
- b. In Python, a tuple can contain only strings as its elements.
- c. In Python, a tuple can contain both integers and strings as its elements
- d. In Python, a tuple can contain either string or integer but not both at a time.

13. What will be the output of below Python code?

```
tuple1=(5,1,7,6,2)
```

```
tuple1.pop(2)
```

```
print(tuple1)
```

- a. (5,1,6,2)
- b. (5,1,7,6)
- c. (5,1,7,6,2)
- d. Error

14. What will be the output of below Python code?

```
tuple1=(2,4,3)
```

```
tuple3=tuple1*2
```

```
print(tuple3)
```

- a. (4,8,6)
- b. (2,4,3,2,4,3)
- c. (2,2,4,4,3,3)
- d. Error

15. Which of the following options will not result in an error when performed on tuples in Python where `tupl=(5,2,7,0,3)` ?

- a. `tupl[1]=2`
- b. `tupl.append(2)`
- c. `tupl1=tupl +tupl`
- d. `tupl.sort()`

16. Which data structure allows deleting data elements from and inserting at rear?

- a. Stacks
- b. Queues
- c. Dequeues
- d. Binary search tree

17. Which of the following will give "Simon" as output?

```
If str1="John,Simon,Aryan"
```

- a. `print(str1[-7: -12])`
- b. `print(str1[-11: -7])`
- c. `print(str1[-11: -6])`
- d. `print(str1[-7: -11])`

18. What will following Python code return?

```
str1="Stack of books"  
print(len(str1))
```

- a. 13
- b. 14
- c. 15
- d. 16

19. What will be the output of the following Python code?

```
def fn(var1):  
    var1.pop(1)  
var1=[1,2,3]  
fn(var1)  
print(var1)
```

- a. [1,2,3]
- b. [1,3]
- c. [2,3]
- d. [1,2]

20. What is the output of the following display() function call

```
def display(**k):  
    for i in k:  
        print(i)  
  
display(emp="kelly", salary=9000)
```

- a. TypeError
- b. Kelly
9000
- c. ('emp', 'kelly')
('salary', 9000)
- d. emp
salary

21. Given the nested if-else below, what will be the value x when the code executed successfully

```
x=0  
a=5  
b=5  
  
if a>0:  
    if b <0:  
        x =x+5  
    elif a >5:  
        x = x +4  
    else:  
        x=x+3;  
  
else:  
    x=x+2  
  
print (x)
```

- a. 0
- b. 4
- c. 2
- d. 3

22. What is the data type of print (type (10))?

- a. Float
- b. Integer
- c. double
- d. None of above

23. What is the output of the following code?

```
def fun1():  
    x=50  
    return x  
  
fun1()  
print(x)
```

- a. 50
- b. NameError
- c. None
- d. 0

24. Select all the valid String creation in Python?

- a. `str1 = 'str1'`
`str1 = "str1"`
`str1 = '''str'''`
- b. `str1 = 'str1'`
`str1 = "str1'''`
`str1 = '''str1''`
- c. `str1 = str(Jessa)`
- d. None of the above

25. What keyword would you use to add an alternative condition to an if statement?

- a. else if
- b. elseif
- c. elif
- d. None of the above

26. Which of the following items are present in the function header?

- a. Function name
- b. Parameter list
- c. Return value
- d. Both a and b

27. What is a recursive function?

- a. A function that calls other function
- b. A function which calls itself
- c. Both a and b
- d. None of the above

28. What will be the output the following Python code?

```
1. >>>t=(1,2,4,3)
2. >>>t[1:-1]
```

- a. (1,2)
- b. (1,2,4)
- c. (2,4)
- d. (2,4,3)

29. What will be the output the following Python code?

```
1. >>>my_tuple = (1, 2, 3, 4)
2. >>>my_tuple.append( (5, 6, 7) )
3. >>>print len(my_tuple)
```

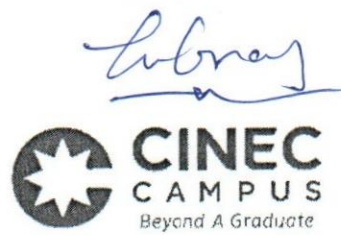
- a. 1
- b. 2
- c. 5
- d. Error

30. Suppose list1 is [2,33,222,14,25] , what is list1[-3] ?

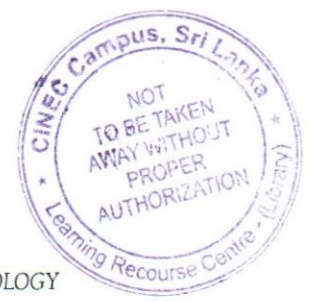
- a. Error
- b. None
- c. 222
- d. 2

-----END OF THE QUESTION PAPER-----

EXAMINATION
23 MAY 2022
CINEC



00024



MID SEMESTER EXAMINATION QUESTION PAPER

CODE - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR II - SEMESTER II

DESIGN AND ANALYSIS OF ALGORITHM - BDI4094

Faculty	Department / Section / Division
Humanities and Education	Education Department

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2022.05.23
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 1.5 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 20 Marks

INDEX NUMBER:

For Office use Only

Question No:	1	2	3	4	5	6	7	8	9	10	Total Marks	%	Signature
For Scrutinizer's Use Only (marks)													
For Moderator's Use Only (marks)													

Select the correct answer/s

- Select the correct answer about data structures.
 - A data structure is never use to store and organize data in order to facilitate the access and modifications.
 - A data structure is not using to store and organize data.
 - Data structure is a representation of data and the operations allowed on that data.
 - Sorting algorithms are representing the logical relationships between individual data elements related to the solution of a given problem.
- What are the ways of representing an algorithm? Select the correct answer.
 - Descriptive analysis, ER Diagram, Pseudocode
 - Descriptive analysis, Flow charts, Pseudocode
 - ER diagrams, Flow charts, DFD
 - Descriptive analysis, ER Diagram, Flow charts

3. Assume that functions are already implement in a Linear Queue program call QueueX.
Select the correct representation of the Queue according to the given function calls.
Maximum size of this queue is five (05).

Insert(10)
Insert(15)
Insert(25)
Insert(20)
Delete()
Insert(30)
Insert(45)

(a)

0	1	2	3	4
45	15	25	20	30

(b)

0	1	2	3	4
45	10	25	20	30

(c)

0	1	2	3	4
10	15	20	30	45

(d) ..

0	1	2	3	4
	15	25	20	30

4. Process of inserting an element in stack is called _____

- (a) Push
(b) Evaluation
(c) Pop
(d) Create

5. Select the correct answer.

- (a) Stack data structure is using First In First Out principal.
(b) Queue data structure is using First In Last Out principal.
(c) Stack data structure is using Last In Last Out principal.
(d) Queue data structure is using First In First Out principal.

6. Select the correct pseudocode according to the given scenario.

“Write a pseudo code to input a number and output whether it’s an even number or an odd number”

(a) 1.Begin

2.Print “Input a number”

3.If number % 2 == 0

4. Print “an even number”

5.Else

6. Print “an odd number”

7.End

(b) Begin

Print “Input a number”

If number % 2 == 0

Print “an even number”

Else

Print “an odd number”

End

(c) 1.Print “Input a number”

2.If number % 2 == 0

3. Print “an even number”

4.Else

5. Print “an odd number”

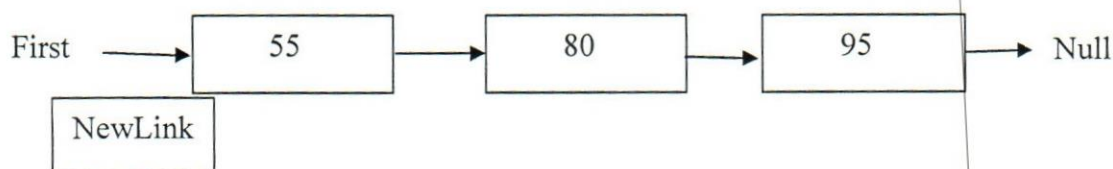
(d) 1.Begin

2.Print “Input a number”

3.If number % 2 == 0

4. Print “an even number”

7. Select the correct algorithm to insert a newlink to the LinkList.



(a) 1.Begin

2.NewLink

3.NewLink.next = First
4.First = NewLink
5.End

(b) 1.Begin
2.NewLink
3.NewLink = First.next
4.First = NewLink
5.End

(c) 1.Begin
2.NewLink
3.NewLink.next = First
4.First = NewLink.next
5.End

(d) 1.Begin
2.NewLink
3.NewLink.next = First.next
4.First = NewLink.next
5.End

8. Assume that there is a Stack as bellow. What will be the output when it call pop() three (03) times?

Stack

55
25
85
75

- (a) 758525
(b) 75852555
(c) 55258575
(d) 552585

9. What is true about 'Backtracking' algorithm?
- (a) Backtracking is including divide the problem into smaller subproblems of the same type, and solve these subproblems recursively and combine the solutions to the subproblems into a solution to the original problem.
 - (b) Backtracking is the process in which a function calls itself directly or indirectly using recursive algorithm, certain problems can be solved quite easily.
 - (c) Backtracking is an algorithmic-technique for solving problems recursively by trying to build a solution incrementally, one piece at a time, removing those solutions that fail to satisfy the constraints of the problem at any point of time.
 - (d) Backtracking is an algorithmic paradigm that builds up a solution piece by piece, always choosing the next piece that offers the most obvious and immediate benefit.
10. Using RAM model analysis, find the correct number of steps needed to display the numbers from 1 to 5.

```
i = 1
  While i <=5
    print i
    i = i + 1
```

- (a) 24
 - (b) 22
 - (c) 15
 - (d) Not given
11. Select two examples for 'Brust Force Algorithm'.
- (a) Merge Sort Algorithm
 - (b) Selection Sort Algorithm
 - (c) Bubble Sort Algorithm
 - (d) Quique Sort Algorithm

12. What is the complexity of the given algorithm?

SELECTION-SORT(A)

```

1.  $n \leftarrow \text{length}[A]$ 
2.   for  $j \leftarrow 1$  to  $n - 1$ 
3.     do  $\text{smallest} \leftarrow j$ 
4.       for  $i \leftarrow j + 1$  to  $n$ 
5.         do if  $A[i] < A[\text{smallest}]$ 
6.           then  $\text{smallest} \leftarrow i$ 
7.       exchange  $A[j] \leftrightarrow A[\text{smallest}]$ 

```

- (a) $O(n^2)$
- (b) $O(n)$
- (c) $O(2^n)$
- (d) (n^3)

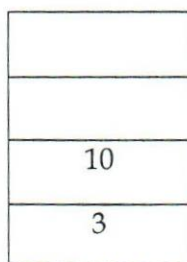
13. Assume that functions are already implement in a program call MyStack. Find the correct representation of Stack according to the given function calls.

```

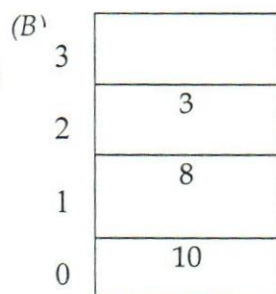
push(3);
push(8);
pop();
push(10);

```

(a)



(b)



(c)

3	3
2	8
1	8
0	10

(d)

3	3
2	8
1	10
0	

14. Select correct Asymptotic Notations.

- (a) & - Notation
- (b) @ - Notation
- (c) © - Notation
- (d) Ω - Notation

Find the Big O value for the given functions in question 15 and 16.

15. $T(n) = n + \log n + n \log n + 1$

- (a) $O(n)$
- (b) $O(\log n)$
- (c) $O(n \log n)$
- (d) $O(1)$

16. $T(n) = 2n + n^2 + 8n + 7$

- (a) $O(n)$
- (b) $O(n^2)$
- (c) $O(1)$
- (d) Not given

17. Assume that functions are already implement in a Circular Queue program call CircularQueue. Select the correct representation of Circular Queue according to the given function calls. Maximum size of this queue is five (05).

```
insert(10);
delete();
insert(20);
insert(50);
delete();
insert(60);
insert(70);
insert(80);
insert(90);
delete()
```

(a)

0	1	2	3	4
10	20	50	60	70

(b)

0	1	2	3	4
80	90	50	60	70

(c)

0	1	2	3	4
10	20	60	70	80

(d)

0	1	2	3	4
80	90		60	70

18. Using the RAM Model Analysis, find the number of steps in the given algorithms

```
Sum = 0
  a = 0;
While Sum = 0 to 3
  a++;
  Sum = Sum + 2
Print a
Print sum
```

- (a) 21
- (b) 22
- (c) 26
- (d) Not given

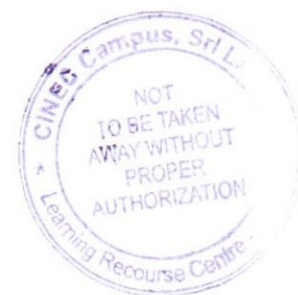
19. Select the incorrect real-world example for Stack.

- a. Write a word document and do the corrections.
- b. Undo/Redo content in a Word document.
- c. Enter data to an excel sheet and undo the data if needed.
- d. Wear bangles to the hand and pull out them.

20. What are the searching algorithms that use to search a given value from the list.

- a. Insertion and selection
- b. Bubble and linear search
- c. Linear and binary search
- d. Not given

-----END OF THE QUESTION PAPER-----



MID SEMESTER EXAMINATION QUESTION PAPER

Code - QP

Approved for Quality Management System

EDUCATION & TRAINING COURSE: B.ED (HONOURS) IN INFORMATION TECHNOLOGY

COURSE CODE: LC - 0851

YEAR 2- SEMESTER II

WEB APPLICATION DEVELOPMENT - BDI4084

Faculty	Department / Section/Division
Humanities and Education	Education Department

INSTRUCTIONS TO CANDIDATES	Date of the examination: 2022.05.24
Candidates could be disqualified if you violate examination rules.	Duration of the examination = 1 1/2 hours
Candidates are not allowed to communicate with and disturb fellow candidates during the examination.	Total Marks = 100 Marks

Important Terms for Students

Answer all questions

** Submissions are only through LMS link of your Module for this Examination. Ensure to verify your upload. Any uploads incomplete by the deadline Time will be cancelled by the LMS automatically.

** Do not delete your work files in the Lab PC. Keep it with your name, registration number and "CGB_B3_MidExam" in D: or E: drive as backup.

1. Create the following Webpage with a form and form elements using HTML5 and css. Save the file as "attendcalc.html". The web page must look very similar to above in color, font size etc. Use css for color and text formatting (50 marks)

College Self Performance Tool

Diploma in Education

Total Number of Lecture Days : 15 days

Name

Number of Days Attended

Your Attendance Percentage (%)

Note : Minimum 80% Attendance required to face examination

2. Use JavaScript to program the operation based on following.

Input: Number of days student attended to course

Provided : Number of total course lecture days = 15

Find : Attendance percentage, i.e. $\text{Input/Provided} * 100$

Create a separate .js file and write program to get above process done linking to previous HTML file. Save JavaScript file as script1.js (40 marks)

3. Save all 3 files (.html, .css and .js) into a zip file (name as "Your Reg/IndexNo>_WAD_B2_MidAssessment1.zip) and upload to link provided in LMS. (10 marks)

-----END OF THE QUESTION PAPER-----