



B.C.A. – IInd Year

SEM – III & IV

Previous Year

Question Papers

Academic Year

(2023-24)





B.C.A. – IInd Year

SEM – III

Previous Year

Question Papers

Academic Year

(2023-24)



Seat No _____



Total No. of Pages-02

October Examination-2023

B.C.A. II Sem III (NEP 91171)

Subject : Computer Network and Internet 28.11.2023_2.30 pm to 5.30 pm

Subject Code : NEP 91171

Day and Date: Tuesday , 28.11.2023

Time : 2.30 pm to 5.30 pm

Total Mark : 80

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Que. 1 and Que.8 are compulsory and attempt any three Questions from Que.No.2 to Que. No.7

Q.1 Select Correct Alternative

12

1. Radio waves are _____
 - a) Omnidirectional
 - b) Unidirectional
 - c) Bidirectional
 - d) None of these
2. _____ layer is responsible for communication between hosts
 - a) Physical layer
 - b) Network layer
 - c) Session layer
 - d) Data link layer
3. _____ cable consists of an inner copper core and a second conducting outer sheath.
 - a) Twisted pair
 - b) Coaxial cable
 - c) Fiber optics
 - d) None of these
4. What is a HUB?
 - a) Software.
 - b) Computer device.
 - c) Network device.
 - d) Calculating device
5. Telephone is an example of _____
 - a) Full-duplex
 - b) Simplex
 - c) Half-duplex
 - d) None of these
6. In fiber optics, the signal is _____ waves.
 - a) Light
 - b) Radio
 - b) c) Infrared
 - d) Very low frequency
7. In the OSI model, as a data packet moves from the lower to the upper layers, headers are _____
 - a) Added
 - b) Removed
 - c) rearranged
 - d) managed



8. ____ of the following is not a flow control technique.
a) stop-and-wait ARQ b) CRC
c) Go-Back-N ARQ d) Selective Repeat ARQ
9. In the OSI model, encryption and decryption are functions of the ____ layer.
a) Physical layer b) Network layer
c) Session layer d) Presentation layer
10. When displaying a web page, the application layer uses the ____.
a) HTTP protocol b) FTP protocol
c) SMTP protocol d) TCP protocol
11. Super High frequencies used in ____
a) Satellite communication b) FM Radio
c) AM Radio d) Cellule Phones
12. Error detecting at data link layer is achieved by ____
a) Equalization b) Bit stuffing
c) Hamming codes d) Cyclic Redundancy code
- Q.2 a. Differentiate Between Intranet , Extranet and Internet [8]
b. Explain Radio Waves. [8]
- Q.3 What is Data Transmission. Explain Serial and Parallel Data Transmission. [16]
- Q.4 Explain ISO-OSI Model. [16]
- Q.5 Explain topologies of Network. [16]
- Q.6 Explain Classification of Computer Network [16]
- Q.7 Define Transmission Media. Explain Guided Transmission Media in detail. [16]
- Q.8 Write a short note on (Any 4) [20]
1. Router
 2. Web browsers & its features
 3. Routing Algorithm
 4. Domain Name System.
 5. Search engines
 6. Error Detection

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Seat No	
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Total No. of Pages-02

October Examination-2023

B.C.A. II Sem III (CBCS :83375)

Subject : Computer Network and Internet 28.11.2023_2.30 pm to 5.30 pm

Subject Code : CBCS :83375

Day and Date: Tuesday , 28.11.2023

Total Mark : 70

Time : 2.30 pm to 5.30 pm

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Que. 1 and Que.6 are compulsory and attempt any three Questions from Que.No.2 to Que. No.5

Q.1 Select Correct Alternative

[10]

- Radio waves are _____
 - Omnidirectional
 - Unidirectional
 - Bidirectional
 - None of these
- _____ layer is responsible for communication between hosts
 - Physical layer
 - Network layer
 - Session layer
 - Data link layer
- _____ cable consists of an inner copper core and a second conducting outer sheath.
 - Twisted pair
 - Coaxial cable
 - Fiber optics
 - None of these
- What is a HUB?
 - Software.
 - Computer device.
 - Network device.
 - Calculating device
- Telephone is an example of _____
 - Full-duplex
 - Simplex
 - Half-duplex
 - None of these
- In fiber optics, the signal is _____ waves.
 - Light
 - Radio
 - Infrared
 - Very low frequency
- In the OSI model, as a data packet moves from the lower to the upper layers, headers are _____
 - Added
 - Removed
 - rearranged
 - managed



8. _____ of the following is not a flow control technique.
a) stop-and-wait ARQ b) CRC
c) Go-Back-N ARQ d) Selective Repeat ARQ
9. In the OSI model, encryption and decryption are functions of the _____ layer.
a) Physical layer b) Network layer
c) Session layer d) Presentation layer
10. When displaying a web page, the application layer uses the _____.
a) HTTP protocol b) FTP protocol
c) SMTP protocol d) TCP protocol
- Q.1 B. Write Short Answers. (Any Two) [10]
1. Explain LAN
2. Explain Radio Waves
3. Explain Internet.
- Q.2 What is Data Transmission. Explain Serial and Parallel Data Transmission. [10]
- Q.3 Explain ISO-OSI Model. [10]
- Q.4 Explain topologies of Network. [10]
- Q.5 Define Transmission Media. Explain Guided Transmission Media in detail. [10]
- Q.6 Write a short note on (Any 4) [20]
1. Router
2. Web browsers & its features
3. Routing Algorithm
4. Domain Name System.
5. Search engines
6. Error Detection

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Seat No	
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**B.C.A. PART-II (Semester – III) NEP
Examination March/April 2024
Computer Network and Internet
Subject Code : 91171**

Day and Date: Tuesday , 16/04/2024
Time : 10.30 am to 1.30 pm

Total Mark : 80

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Que. 1 and Que.8 are compulsory and attempt any three Questions from Que.No.2 to Que. No.7

Q.1 Select Correct Alternative

[12]

1 Supper High frequencies used in _____

- a)Satellite communication b)FM Radio
c)AM Radio d)Cellule Phones

2. In the OSI model, encryption and decryption are functions of the _____ layer.

- a) Physical layer b)Network layer
c) Session layer d)Presentation layer

3. The sharing of a medium and its link by two or more devices is called _____

- a) Fully duplexing b) Multiplexing
c) Micropleixng d) Duplexing

4) The addresses of class A,B,C are

- a)Multicast b)Reserved
c)Unicast d)All of the above

5. In fiber optics, the signal is _____ waves.

- a) Light b)Radio
b) c)Infrared d)Very low frequency

6. In the OSI model, as a data packet moves from the lower to the upper layers, headers are _____

- a)Added b)Removed
c) rearranged d)managed



7. _____ cable consists of an inner copper core and a second conducting outer sheath.

- a) Twisted pair
- b) Coaxial cable
- c) Fiber optics
- d) None of these

8. When displaying a web page, the application layer uses the _____.

- a) HTTP protocol
- b) FTP protocol
- c) SMTP protocol
- d) TCP protocol

9. Communication between a computer and a keyboard involves _____ transmission.

- a) Automatic
- b) Half-duplex
- c) Full-duplex
- d) Simplex

10. UDP packets are called as _____.

- a) Segments
- b) Checksum
- c) Frames
- d) Datagrams

11. _____ layer is responsible for communication between hosts

- a) Physical layer
- b) Network layer
- c) Session layer
- d) Data link layer

12. which of the following is not a flow control technique?

- a) stop-and-wait ARQ
- b) CRC
- c) Go-Back-N ARQ
- d) Selective Repeat ARQ

Q.2. Explain ISO-OSI Model [16]

Q.3 What is Transmission Media. Explain Unguided Transmission Media in detail. [16]

Q.4 Explain topologies of Network. [16]

Q.5 What is Data Transmission. Explain Serial and Parallel Data Transmission. [16]

Q.6 Explain Classification of Computer Network [16]

Q.7 What is Data Transmission, Explain Serial and Parallel Data Transmission. [16]

Q.8 Write a short note on (Any 4) [20]

1. Domain Name System.
2. Bridge
3. Extranet
4. Web browsers & its features
5. Hub
6. Routing Algorithm



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Seat No

**B.C.A. PART-II (Semester – III) CBCS
Examination March/April 2024
Computer Network Internet
Subject Code : 83375**

Day and Date: Tuesday , 16/04/2024

Total Mark : 70

Time : 10.30 am to 1.30 pm

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Que. 1 and Que.6 are compulsory and attempt any three Questions from Que.No.2 to Que. No.5

Q.1 Select Correct Alternative

[10]

1. _____ layer is responsible for communication between hosts
 - a) Physical layer
 - b) Network layer
 - c) Session layer
 - d) Data link layer

2. _____ cable consists of an inner copper core and a second conducting outer sheath.
 - a) Twisted pair
 - b) Coaxial cable
 - c) Fiber optics
 - d) None of these

3. The sharing of a medium and its link by two or more devices is called _____.
 - a) Fully duplexing
 - b) Multiplexing
 - c) Microplexing
 - d) Duplexing

4. Communication between a computer and a keyboard involves _____ transmission.
 - a) Automatic
 - b) Half-duplex
 - c) Full-duplex
 - d) Simplex

5. In fiber optics, the signal is _____ waves.
 - a) Light
 - b) Radio
 - b) c) Infrared
 - d) Very low frequency





Seat No.

October (winter) Examination-2023

Subject Name: BCA Part II (Sem III)

Data Structure Using C

29.11.2023_02:30pm to 05:30 pm

Subject Code: NEP 91172

Total Marks: 80

Day & Date: Wednesday 29/11/2023

Time: 02:30pm to 05:30pm

Instructions: 1) Figures right to indicate.

Special Instructions: 1) Q 1 & Q 8 are compulsory and attempt any three questions from QNo.2 to Q No.7

Q.1) Answer the following Multiple-choice Questions

[12]

1. How can we describe an array in the best possible way?
 - a. The Array shows a hierarchical structure.
 - b. Arrays are immutable.
 - c. Container that stores the elements of similar types
 - d. The Array is not a data structure
2. Which one of the following is the process of inserting an element in the stack?
 - a. Insert
 - b. Add
 - c. Push
 - d. None of the above
3. When the user tries to delete the element from the empty stack then the condition is said to be a
 - a. Underflow
 - b. Garbage collection
 - c. Overflow
 - d. None of the above
4. Which data structure is required to convert the infix to prefix notation?
 - a. Stack
 - b. Linked list
 - c. Binary tree
 - d. Queue
5. The prefix form of $A-B / (C * D ^ E)$ is?
 - a. $-A/B * C ^ DE$
 - b. $-A/BC * ^ DE$
 - c. $-ABCD * ^ DE$
 - d. $- / * ^ ACBDE$
6. Which of the following principle does Queue use?
 - a. LIFO principle
 - b. FIFO principle
 - c. Linear tree
 - d. Ordered array
7. Which one of the following is not the type of the Queue?
 - a. Linear Queue
 - b. Circular Queue
 - c. Double ended Queue
 - d. Single ended Queue



8. Which of the following statement is not true about the doubly linked list?
- We can traverse in both the directions.
 - It requires extra space
 - Implementation of doubly linked list is easier than the singly linked list
 - It stores the addresses of the next and the previous node
9. Which one of the following is the correct option to create a new node?
- `ptr=(node*)malloc(sizeof(node*))`
 - `ptr=(node)malloc(sizeof(node))`
 - `ptr=(node*)malloc(sizeof(node))`
 - None of the above
10. Which one of the following is not the application of the stack data structure
- String reversal
 - Recursion
 - Backtracking
 - Asynchronous data transfer
11. If the elements '1', '2', '3' and '4' are added in a stack, so what would be the order for the removal?
- 1234
 - 2134
 - 4321
 - None of the above
12. In the linked list implementation of queue, where will the new element be inserted?
- At the middle position of the linked list
 - At the head position of the linked list
 - At the tail position of the linked list
 - None of the above
- Q2) Explain insertion and deletion functions in doubly linked list . [16]
- Q3) What is data structure explain different types of data structure. [16]
- Q4) Explain bubble sort in detail [16]
- Q5) Explain operations on singly linked list. [16]
- Q6) Explain primitive operations on stack and queue. [16]
- Q7) Explain linear search and binary search. [16]
- Q.8) Short notes (ANY FOUR) [20]
- Insertion Sort.
 - Selection Sort.
 - Applications of stack : Prefix and Postfix.
 - Types of Queue.
 - Applications of queue..
 - Data structure operations.



Seat No.

October (winter) Examination-2023

Subject Name: BCA Part II CBCS (Sem III)

Data Structure Using C

29.11.2023_02:30pm to 05:30 pm

Subject Code: CBCS 83376

Total Marks: 70

Day & Date: Wednesday 29/11/2023

Time: 02:30pm to 05:30pm

Instructions: 1) Figures right to indicate.

Special Instructions: 1) Q 1 & Q 6 are compulsory and attempt any three questions from QNo.2 to Q No.5

Q1) A) Multiple choice Questions (10 Questions for 1 mark each)

(10)

1. How can we describe an array in the best possible way?
 - a. The Array shows a hierarchical structure.
 - b. Arrays are immutable.
 - c. Container that stores the elements of similar types
 - d. The Array is not a data structure
2. Which one of the following is the process of inserting an element in the stack?
 - a. Insert
 - b. Add
 - c. Push
 - d. None of the above
3. When the user tries to delete the element from the empty stack then the condition is said to be a

 - a. Underflow
 - b. Garbage collection
 - c. Overflow
 - d. None of the above
4. Which data structure is required to convert the infix to prefix notation?
 - a. Stack
 - b. Linked list
 - c. Binary tree
 - d. Queue
5. What is the value of the postfix expression $6\ 3\ 2\ 4\ +\ -\ *?$
 - a. 74
 - b. -18
 - c. 22
 - d. 40
6. Which of the following principle does Queue use?
 - a. LIFO principle
 - b. FIFO principle
 - c. Linear tree
 - d. Ordered array



7. Which one of the following is not the type of the Queue?
- a. Linear Queue
 - b. Circular Queue
 - c. Double ended Queue
 - d. Single ended Queue
8. Which of the following is a Divide and Conquer algorithm?
- a. Bubble Sort
 - b. Selection Sort
 - c. Heap Sort
 - d. Merge Sort
9. Which one of the following is the correct option to create a new node?
- a. `ptr=(node*)malloc(sizeof(node*))`
 - b. `ptr=(node)malloc(sizeof(node))`
 - c. `ptr=(node*)malloc(sizeof(node))`
 - d. None of the above
10. Which one of the following is not the application of the stack data structure
- a. String reversal
 - b. Recursion
 - c. Backtracking
 - d. Asynchronous data transfer

B) Short Answers questions (Any 2 out of 3)

(10)

- 1) Explain stack as an abstract data type.
- 2) Explain binary search with example.
- 3) Explain insertion function in singly linked list

Q2) What are Data structures? Explain different types of Data Structure .

(10)

Q3) Write a program to evaluate postfix expression.

(10)

Q4) What is stack .Explain primitive stack operations .

(10)

Q5) Explain operations on doubly linked list.

(10)

Q6) Write Notes (Any 4 out of 6)

(20)

- a) Insertion Sort.
- b) Selection Sort.
- c) Applications of stack : Prefix and Postfix.
- d) Types of Queue.
- e) Linear Search.
- f) Data structure operations.

Seat No

**BCA Part-II (Semester-III) NEP
Examination, March/April -2024**

Data Structure using C

Subject Code :91172

Day and Date: Thursday ,18.04.2024

Total Mark :80

Time : 10.30 am to 1.30 pm

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Que. 1 and Que.8 are compulsory and attempt any three Questions from Que.No.2 to Que. No.7.

Q.1 Multiple Choice Question (12 questions for 1 mark each)

[12]

1. Which data structure is based on the Last In First Out (LIFO) principle?

- a) Tree
- b) Linked List
- c) Stack
- d) Queue

2. Which data structure is required to convert the infix to prefix notation?

- a) Stack
- b) Linked list
- c) Binary tree
- d) Queue

3. Which of the following data structures allow insertion and deletion from both ends?

- a) Stack
- b) Deque
- c) Queue
- d) Strings

4. What function is used to append a character at the back of a string in C++?

- a) push_back()
- b) append()
- c) push()
- d) insert()

5. Which of the following is a Divide and Conquer algorithm?

- a) Bubble Sort
- b) Selection Sort
- c) Heap Sort
- d) Merge Sort

6. If the size of the stack is 10 and we try to add the 11th element in the stack then the condition is known as _____

- a) Underflow
- b) Garbage collection
- c) Overflow
- d) None of the above



7. What is a data structure?

- a) A programming language
- b) A collection of algorithms
- c) A way to store and organize data
- d) A type of computer hardware

8. Which one of the following is an application of queue data structure

- a) When a resource is shared among multiple consumers.
- b) When data is transferred asynchronously
- c) Load Balancing
- d) All of the above

9. Which of the following data structures allow insertion and deletion from both ends?

- a) Stack
- b) Deque
- c) Queue
- d) Strings

10. What is the need for a circular queue?

- a) easier computations
- b) implement LIFO principle in queues
- c) effective usage of memory
- d) to delete elements based on priority

11. Which of the following is not the application of stack?

- a) Data Transfer between two asynchronous process
- b) Compiler Syntax Analyzer
- c) Tracking of local variables at run time
- d) A parentheses balancing program

12. What is the value of the postfix expression 6 3 2 4 + - *?

- a) 74
- b) -18
- c) 22
- d) 40

Q.2 Explain the operations on linear linked list.

[16]

Q.3 What is stack ? Explain primitive operations on stack.

[16]

Q.4 Explain applications of stack with example.

[16]

Q.5 Explain queue and types of queue in detail.

[16]

Q.6 Explain data structure and its types.

[16]

Q.7 Explain operation on doubly linked list

[16]

Q.8 Write a short note (Any 4)

[20]

- a) Selection sort.
- b) Linear search
- c) Bubble sort
- d) Application of queue
- e) Tree traversal techniques
- f) Insertion sort



Seat No	
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BCA Part-II (Semester-III) CBCS
Examination, March/April -2024
Data Structure using C
Subject Code :83376

Day and Date: Thursday ,18.04.2024

Total Mark :70

Time : 10.30 am to 1.30 pm

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Que. 1 and Que.6 are compulsory and attempt any three Questions from Que.No.2 to Que. No.5

Q.1 Multiple Choice Question (10 questions for 1 mark each)

[10]

1. Which of the following data structures allow insertion and deletion from both ends?
 - a) Stack
 - b) Deque
 - c) Queue
 - d) Strings
2. Which data structure is required to convert the infix to prefix notation?
 - a) Stack
 - b) Linked list
 - c) Binary tree
 - d) Queue
3. Which one of the following is not the application of the stack data structure
 - a) String reversal
 - b) Recursion
 - c) Backtracking
 - d) Asynchronous data transfer
4. What function is used to append a character at the back of a string in C++?
 - a) push_back()
 - b) append()
 - c) push()
 - d) insert()
5. Which of the following is a Divide and Conquer algorithm?
 - a) Bubble Sort
 - b) Selection Sort
 - c) Heap Sort
 - d) Merge Sort
6. What is the need for a circular queue?
 - a) easier computations
 - b) implement LIFO principle in queues
 - c) effective usage of memory
 - d) to delete elements based on priority
7. What is a data structure?
 - a) A programming language
 - b) A collection of algorithms
 - c) A way to store and organize data
 - d) A type of computer hardware



8. Which of the following statement is not true about the doubly linked list?
- a) We can traverse in both the directions.
 - b) It requires extra space
 - c) Implementation of doubly linked list is easier than the singly linked list
 - d) It stores the addresses of the next and the previous node
9. Which data structure is based on the Last In First Out (LIFO) principle?
- a) Tree
 - b) Linked List
 - c) Stack
 - d) Queue
10. If the size of the stack is 10 and we try to add the 11th element in the stack then the condition is known as ____
- a) Underflow
 - b) Garbage collection
 - c) Overflow
 - d) None of the above

B) Write a short answer of the following (Any 2) [10]

- 1.Explain Data Structure operations.
- 2.Explain insertion function in singly linked list.
- 3.Explain binary search with example.

Q.2 What is stack ? Explain primitive operations on stack. [10]

Q.3 Explain queue and types of queue in detail. [10]

Q.4 Explain applications of stack with example. [10]

Q.5 Explain the operations on doubly linked list. [10]

Q.6 Write a short note on (Any 4) [20]

- a) Selection sort.
- b) Linear search
- c) Bubble sort
- d) Application of queue
- e) Tree traversal techniques
- f) Insertion sort



Seat No

BCA Part-II(semester-III) Examination October –2023
Subject Name- : Elements of Statistics
Subject code: 91173 (NEP)

Day and Date : Thursday, 30/11/2023
Time : 2.30 pm to 5.30 pm

Total - 80

Instructions: 1) Que.1 and Que.8 are compulsory and attempt any three Ques from Que. No.2 to Que No. 7.
2) Figures to the right indicate marks.



Q1. Choose the correct alternatives (12)

1. Any subset of the sample space is called as -----
i) Event ii) sub event iii) both i) & ii) iv) none of these
2. If X and Y are two variables, there can be at most
i) One regression line ii) Two regression line
iii) Three regression line iv) Four regression line
3. The class width of the continuous data: 10-19 20-29 30-39 40-49 50-59 is.....
i) 9 ii) 10 iii) 14.5 iv) 4.5
4. Sum of Square of deviations from mean is always.....
i) Zero ii) one iii) two iv) none of these
5. Histogram can be drawn only for..... Distribution
i) Discrete frequency ii) Continuous frequency
iii) Individual frequency iv) none of these
6. The ogives of less than type and more than type distribution intersect at.....
i) Mean ii) Median iii) Mode iv) Quartiles
7. Who stated that statistics is the applied branch of mathematics.....
i) Tipper ii) Bowler iii) R A fisher iv) Conner



8. Scatter diagram of the variate values (X,Y) gives the idea about

- i) Functional relationship ii) Regression model
- iii) Distribution of errors iv) None of the above

9. if the Correlation between the two variables x and y is negative, the regression coefficient of Y on X is

- i) 4,5 ii) 3,4 iii) 4/3,5/4 iv) None of the above

10. Statistical results are -----

- a) Absolutely correct b) Not true c) True an average d) Universally true

11. Which measure is expressed in to the statistical unit?

- a) Absolute measure b) Relative measure c) Both i) & ii)d) none

12. Two coins are tossed at a time then n(s) =

- i) 2 ii) 4 iii) 6 iv) 8

Q2. Define measures of dispersion and explain types of measures of dispersion. (16)

Following are the runs scored by Batsman A & Batsman B in two innings.

Batsman A	10	30	16	58	75	42	62	35	70	28
Batsman B	6	15	90	120	85	94	76	100	95	100

Find Who is reliable batsman

Q3. Explain types of correlation (16)
Obtain Rank correlation coefficient for given data.

x	68	64	75	50	64	80	75	40	55	64
y	62	58	68	45	81	60	68	48	50	70

Q4. Define histogram and write its construction (16)

Draw histogram to represent the following data and find mode

Age in years	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of workers	22	31	45	51	36	28	16



Q.5 Define with an example

(16)

- i) Sample space I i) sure event
iii) null event iv) mutually exclusive event
v) complimentary event vi) Dependent event
vii) independent event viii) Equally likely event

Q.6 write the merits and demerits of arithmetic mean.

(16)

Calculate mean, median, mode and quartiles for following data

x	10	20	30	40	50
f	9	13	19	7	6

Q.7 Write the addition and multiplication law of the probability.

(16)

A and B hit the target with probability of hitting 0.3 and 0.4 respectively

Find the probability that i) target will be hit ii) target will not be hit

Q8. Write notes on (any four out of six)

(20)

- Ogives
- Interpret the value of r
- Equation of regression line
- Pie chart
- Scope of statistics
- Absolute measures of dispersion



Seat No

BCA Part-II(semester-III) Examination October –2023

Subject Name- : Elements of Statistics

Subject code: 83377 (CBCS)

Day and Date : Thursday, 30/11/2023

Time : 2.30 pm to 5.30 pm

Total - 70

Instructions: 1) Que.1 and Que.6 are compulsory and attempt any three Ques from Que. No.2 to Que No. 5.
2) Figures to the right indicate marks.



Q1. (20)

A]Choose the correct alternatives (10)

1. If $r=0$ then which correlation exist ?

i) +ve ii) - ve III) no correlation iv) none of these

2. The mean of the values 11,12,13,14,15 is _____

i)12 .5 ii)12 iii)13 iv) 14

3. Standard deviation is the _____ of the variance.

i) +ve square root ii) -ve square root iii)Square root iv)none

4. Regression coefficient is independent of change of _____

i) Origin ii) Scale iii) Both origin and scale iv)none of these

5. Which measure is expressed in to the statistical unit ?

i) Absolute measure ii)Relative measure iii) Both i) & ii) iv) none

6. Spearman's rank correlation coefficients denoted by _____

i) R ii) r iii) both of these iv) none of these

7. Ogive curve occur for _____

i) More than type distribution ii) Less than type distribution

iii) Both i) and ii) iv) Nonc of the above

8. Formula for coefficient of variation is _____

i) $\frac{SD}{mean} \times 100$ ii) $\frac{mean}{SD} \times 100$ iii) $\frac{mean \times SD}{100}$ iv) $\frac{100}{mean \times SD}$



9. A time series is a set of values arranged in _____ order.

- i) Geographical ii) chronological iii) Qualitative iv) Quantitative

10. In an open end distribution _____ can't be determined.

- i) mean ii) median iii) mode iv) quartiles

B] Attempt any two (10)

- a) Write the merits and demerits of median
b) Write the scope of statistics.
c) Calculate mean and median for following data

x	10	20	30	40	50
f	9	13	19	7	6

Q2. Explain cyclical variation (10)

Find 4 yearly centred moving averages for following data. Also plot trend value along with original on graph paper.

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Sale	21	15	16	29	51	58	2536	16	23	28

Q3. Explain absolute and relative measures of dispersion. (10)

Calculate CV for following data

Wages(rs)	0-10	10-20	20-30	30-40	40-50	50-60
No. of workers	3	7	11	15	12	8

Q4. Explain positive and negative correlation (10)

Obtain correlation coefficient for given data.

x	45	70	65	30	90	40	50	75	85	60
y	35	90	70	40	95	40	60	80	80	50



Q5. Define primary and secondary data

(10)

Draw histogram to represent the following data and find mode

Age in years	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of workers	22	31	45	51	36	28	16

Q6. Write notes on any four

(20)

- Scatter diagram
- Interpret $r = 0$, $r = +1$, $r = -1$
- Seasonal variation in time series
- SRSWOR
- Equation of regression line
- Advantages of sampling method over census method



Seat No. -

BCA (Part-II) (Semester-III) NEP
Examination March / April 2024
Elements of Statistics
Subject code: 91173

Day and Date : Friday, 19/4/2024
Time : 10.30 am to 1.30 pm

Total - 80

Instructions: 1) Que.1 and Que.8 are compulsory and attempt any three Ques from Que. No.2 to Que No. 7.
2) Figures to the right indicate marks.

Q1. Choose the correct alternatives (12)

1. What will be the probability of getting odd numbers if a dice is thrown ?

- i) $1/2$ ii) $2/6$ iii) $4/6$ iv) none of these

2. The correlation coefficient describes

- i) only magnitude ii) Both magnitude and Direction
iii) Only direction iv) None of these

3. The class length of the continuous data :

9.5-19.5 19.5-29.5 29.5-39.5 39.5-49.5 49.5-59.5 is.....

- i) 9 ii) 10 iii) 14.5 iv) 4.5

4. Sum of Square of deviations from mean is always.....

- i) Zero ii) one iii) two iv) none of these

5. Ogives can be drawn only for..... Distribution

- i) Discrete frequency ii) Continuous frequency
iii) Individual frequency iv) none of these

6. Which of the following are the methods under measures of dispersion

- i) Mean Deviation ii) Range iii) SD iv) All the above

7. The probability that cannot exist among the following

- i) $2/5$ ii) -1.5 iii) 15% iv) 0.7



8. Scatter diagram of the variate values (X,Y) gives the idea about

- i) Functional relationship ii) Regression model
- iii) Distribution of errors iv) None of the above

9. if the Correlation between the two variables x and y is negative, the regression coefficient Of Y on X is.....

- i) Negative ii) positive iii) Zero iv) None of the above

10. Statistical results are _____

- a) Absolutely correct b) Not true c) True an average d) Universally true

11. Which measure is not expressed in to the statistical unit?

- a) Absolute measure b) Relative measure c) Both i) & ii) d) none

12. What is the probability of an impossible event?

- i) 2 ii) 1 iii) 0 iv) 8

Q2.Explain Scatter diagram. Obtain correlation coefficient for given data (16)

X	2	8	9	10	7	6
Y	5	3	6	4	2	9

Q3. For the data given below (16)

	Factory A	Factory B
No. of workers	50	100
Average wages	120	85
Variance	9	16

Find –

- 1) Which factory pay's the large amount
- 2) Which factory shows more variation
- 3) Find combined variance and CV of two factories taken together

Q.4 Explain addition and multiplication laws of the probability. (16)

Given that $P(A)=0.3, P(B)=0.2, P(C)=0.1$

Find that $P(A \cup B \cup C)$ when

- 1) They are mutually exclusive 2) They are independent



Q5. Write the requirement of good measures averages. (16)

Calculate mean, median, mode and upper and lower quartiles for the following frequency distribution

Weight (in Kg)	0-10	10-20	20-30	30-40	40-50
No. of students	3	9	15	18	5

Q.6 What are the advantages of sampling method over census method (16)

Draw histogram to represent the following data and find mode

Wages in (Rs)	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of Persons	9	13	25	30	23	12	8

Q.7 a) A problem is given to two students A and B probability that A solve it is $\frac{2}{3}$ and B solve it is $\frac{3}{4}$ find the probability that problem will be solve. (16)

b) Two dice are thrown simultaneously then what is the probability that

i) The event getting the same number

ii) First number is greater than second

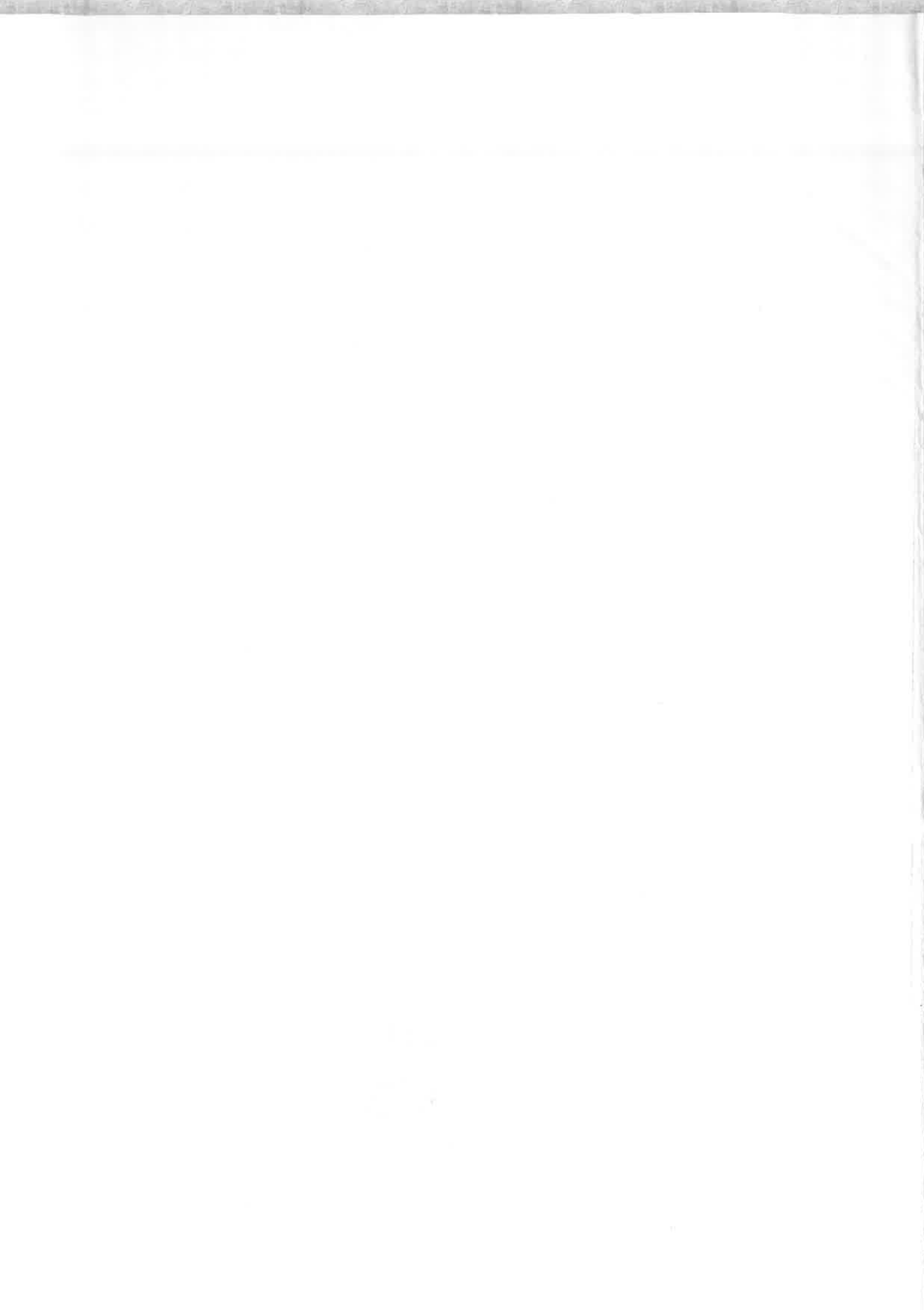
iii) Sum of the two numbers are perfect square

IV) Sum of the two numbers greater than equal to 10

Q8. Write notes on (any four out of six) (20)

- Scope of statistics
- Ogives
- Simple random sampling (SRS)
- Types of correlation
- Interpret $r = 0$, $r = +1$, $r = -1$
- Measures of dispersion





Seat No.

BCA (Part-II) (Semester-III) CBCS
Examination march / April 2024
Elements of Statistics
Subject code: 83377

Day and Date : Friday, 19/04/2024
Time : 10.30 am to 1.30 pm

Total - 70

Instructions: 1) Que.1 and Que.6 are compulsory and attempt any three Ques from Que. No.2 to Que No. 5.
2) Figures to the right indicate marks.

Q1. (20)

A] Choose the correct alternatives (10)

1. If $r = +1$ then which correlation exist ?

i) perfect +ve ii) perfect - ve III) no correlation iv) none of these

2. The mean of the values 1,2,3,4,5,6,7,8,9 is _____

i) 5 ii) 12 iii) 13 iv) 14

3. Standard deviation is the _____ of the variance.

i) +ve square root ii) -ve square root iii) Square root iv) none

4. Regression coefficient is independent of change of _____

i) Origin ii) Scale iii) Both origin and scale iv) none of these

5. Which measure is not expressed in to the statistical unit ?

i) Absolute measure ii) Relative measure iii) Both i) & ii) iv) none

6. Correlation coefficients denoted by _____

i) R ii) r iii) both of these iv) none of these

7. Histogram is used to calculate _____

i) Mean ii) Median
iii) Mode iv) None of the above

8. Formula for coefficient of variation is _____

i) $\frac{SD}{mean} \times 100$ ii) $\frac{mean}{SD} \times 100$ iii) $\frac{mean \times SD}{100}$ iv) $\frac{100}{mean \times SD}$



9. A time series is a set of values arranged in _____ order.

- i) Geographical ii) chronological iii) Qualitative iv) Quantitative

10. Statistical results are _____

- i) Correct ii) not true iii) True an average iii) Universally true

B] Attempt any two

(10)

a) Write the merits and demerits of mean

b) Obtain rank correlation coefficient for given data

X	30	32	42	50	56	92	36	40
Y	38	56	60	72	92	90	83	87

c) Calculate mean, median and mode for following data

Marks	35	36	37	38	39
No. of students	4	10	13	8	5

Q2. Calculate MD about median for following frequency distribution

(10)

CI	0-10	10-20	20-30	30-40	40-50	50-60
f	6	7	15	16	4	2

Q3. Explain Scatter diagram

(10)

Q4. Explain seasonal variation and cyclical variation.

(10)

Find 3 yearly centered moving average for following data

Year	1999	2000	2001	2002	2003	2004	2005	2006
value	40	44	48	50	43	45	60	65



Q5. Following are the runs scored by batsman A

(10)

and batsman B in two innings. Find

- 1) Who is reliable 2) Who is good run gather

Batsman A	10	30	16	58	75	42	62	35	70	28
Batsman B	6	15	90	120	85	94	76	100	95	100

Q6. Write notes on any four

(20)

- Histogram
- Types of correlation
- Equation of regression line
- Absolute and relative measures of dispersion
- Advantages of sampling method over census method
- Uses of time series







Seat No.

October (winter) Examination-2023

Subject Name: BCA Part II (Sem III)

Human Resource Management & Material Management

01.12.2023_02:30pm to 05:30 pm

Subject Code: NEP 91174

Day & Date: Friday 01/12/2023

Time: 02:30pm to 05:30pm

Total Marks: 80

Instructions: 1) Figures right to indicate.

Special Instructions: 1) Q 1 & Q 8 are compulsory and attempt any three questions from QNo.2 to Q No.7

Q.1) Answer the following Multiple-choice Questions

[12]

1. Materials management is also called _____
a) control and logistics management b) distribution planning
c) both of the above d) neither of the above
2. _____ refers to the process of ordering, storing, using, selling a company's inventory
a) Inventory management b) Purchasing cycle
c) Human Resources Management d) Marketing
3. Materials management is also called _____
a) control and logistics management b) distribution planning
c) both of the above d) neither of the above
4. Raw Materials and WIP can be classified under _____
a. indirect material b. direct material
c. finished material d. Standard Parts
5. _____ can be defined as a set of programs, functions, activities designed and performed in order to maximize both employees as well as organization effectiveness
a) Human resource modifies b) Humna Resource Management
c) High resolution manometry d) Human requirement marketing
6. Wage and salary, bonus and incentives, payroll, job evaluation etc. are examples of _____
a) Procurement b) Integration c) Compensation d) Marketing
7. Another name for performance review, merit rating, annual reviews is _____
a) Performance Appraisal b) Employee motivation
c) Performance degradation d) Selection & training
8. _____ Human resource management emphasis.
a) Development of people b) Punishment of people
c) Adoption of people d) None of these
9. Basic managerial functions of HRM are _____
a) Planning, organizing, staffing b) Planning, organising and co-ordinating
c) Planning, organising, directing & controlling d) None of these



10. Training process is a _____
a) Short term b) Medium term c) Long term d) None of these

11. Off the job training method includes _____
Vestibule training b) Syndicate c) Sensitivity training d) All

12. 5R's in purchasing are _____
a) Right Quality, Right Quantity, Right place, Right time. Right price
b) Right resources, area, manpower, delivery, supplier
c) Right vendor, purchaser, transport. amount, customer,
d) Right decision, planning, analysis, feedback and supplier

- Q2) Explain the different methods of performance appraisal [16]
Q3) What is Material Management? Explain its objectives in detail [16]
Q4) Explain the fringe & welfare benefits [16]
Q5) Explain the process of HRP [16]
Q6) Explain functions of HRM [16]
Q7) Explain future of Material Management in India [16]

Q.8) Short notes (ANY FOUR)

1. Scope of HRM
2. Training and need for training
3. Role of computer in material management
4. Purchasing cycle
5. Inventory control technique
6. Objectives of performance appraisal

[20]



Seat No.

October (winter) Examination-2023
Subject Name: BCA Part II CBCS (Sem III)
Human Resource Management & Material Management
01.12.2023_02:30pm to 05:30 pm
Subject Code: CBCS 83378

Total Marks: 70

Day & Date: Friday 01/12/2023

Time: 02:30pm to 05:30pm

Instructions: 1) Figures right to indicate.

Special Instructions: 1) Q 1 & Q 6 are compulsory and attempt any three questions from QNo.2 to Q No.5

Q.1) Answer the following Multiple-choice Questions

[10]

1. _____ refers to the process of ordering, storing, using, selling a company's inventory
a) Inventory management b) Purchasing cycle
c) Human Resources Management d) Marketing
2. _____ can be defined as a set of programs, functions, activities designed and performed in order to maximize both employees as well as organization effectiveness
a) Human resource modifies b) Human Resources Management
c) High resolution manometer d) Human requirement marketing
3. Wage and salary, bonus and incentives, payroll, job evaluation etc. are examples of _____
a) Procurement b) Integration c) Compensation d) Marketing
4. Another name for performance review, merit, rating, annual reviews is _____
a) Performance Appraisal b) Employee motivation
c) Performance degradation d) Selection training
5. _____ Human resource management emphasis.
a) Development of people b) Punishment of people
c) Adoption of people d) none of these
6. Basic managerial functions of HRM are _____
a) Planning, organizing, staffing b) Planning, organizing and coordinating
c) Planning, organizing, directing & controlling d) none of these
7. Training process is a _____
a) Short term b) Medium term c) Long term d) None of these



8. On the job training includes _____

- a) Coaching b) Conference c) Understudy d) All of these

9. 5R's in purchasing are _____

- a) Right Quality, Right Quantity, Right place, Right time, Right price
b) Right resources, area, manpower, delivery, supplier
c) Right vendor, purchaser, transport amount, customer
d) Right decision, planning, analysis, feedback and supplier

10. Off the job training method includes _____

- a) Vestibule training b) Syndicate c) Sensitivity training d) All of these

Q.1B) Answer **any TWO** short answers from the following

1. Explain in detail 5R's in purchasing
2. Explain functions of HRM
3. Explain future of Material Management in India

[10]

Q2) what is HRM? Explain its objectives with examples

Q3) what is Material Management? Explain its objectives in detail

Q4) Explain types of inventory

Q5) Explain the process of HRP

[10]

[10]

[10]

[10]

Q.6) Short notes (**ANY FOUR**)

1. Scope of HRM
2. Training and need for training
3. Role of computer in material management
4. Purchasing cycle
5. Inventory control technique
6. Objectives of performance appraisal

[20]

Seat No.

BCA Part II (SEM III) NEP
Examination March-April -2024
Human Resource Management and Material Management
Subject Code: 91174

Day & Date: Saturday 20/04/2024

Total Marks: 80

Time: 10:30am to 1:30 pm

Instructions: 1) Figures right to indicate.

Special Instructions: 1) Q 1 & Q 8 are compulsory and Attempt any three questions from QNo.2 to QNo.7

Q1) A) Multiple choice Questions (12 Questions for 1 mark each) (12)

1. _____ is the lowest level of inventory to be maintained
A) Minimum B) Danger C) Maximum D) EOQ

2. The scope of HRM includes _____
A) Training & development B) Performance appraisal C) Job evaluation D) All of above

3. Training process is _____
A) Short term B) Medium term C) Long term D) None of these

4. On job training includes _____
A) Coaching B) Conference C) Understudy D) All of these

5. In VED "V" stands for _____
A) Vital B) Victory C) Very D) Vocal

6. Which of the following is related to grouping of inventories?
A) ABC analysis B) LIFO method C) FIFO method D) VED analysis

7. _____ is the commonly used source of internal recruitment
A) Transfer B) Demotion C) Promotion D) Advertisement

8. Methods of training and development are _____
A) Off the job B) On the job C) Both (a) and (b) D) None of these



9. Which of the following is not an inventory?

A) Machines B) Raw material C) Finished products D) Consumable tools

10. H.R.M. is a _____ function

A) Management B) Operational C) Marketing D) Technological

11. _____ is process of searching for prospective employees and stimulating them to apply for the jobs

A) Recruitment B) Selection C) Promotion D) Transfer

12) _____ is a process of evaluating an employee's performance of a job in terms of its requirements

A) Performance management
C) Performance appraisal

B) Performance analysis
D) Performance Evaluation

Q2) Explain the different sources of recruitment process (16)

Q3) What are the objectives of performance appraisal (16)

Q4) Explain the Functions of material management (16)

Q5) Explain the different types of inventory (16)

Q6) Explain the 5R in Purchasing (16)

Q7) Explain the selection process in details (16)

Q8) Write Notes (Any 4 out of 6) (20)

- 1) Objectives of purchasing
- 2) Role of computer in material management
- 3) Wage payments
- 4) Need of training
- 5) Transfer policy
- 6) Fringe Benefits



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Seat No.

BCA Part II (SEM III) CBCS
Examination March-April -2024
Human Resource Management and Material Management
Subject Code: 83378

Day & Date: Saturday 20/04/2024

Total Marks: 70

Time: 10:30am to 1:30 pm

Instructions: 1) Figures right to indicate.

Special Instructions: 1) Q 1 & Q 6 are compulsory and Attempt any three questions from QNo.2 to Q No.5

Q1) A) Multiple choice Questions (10 Questions for 1 mark each) (10)

1. _____ is the lowest level of inventory to be maintained
A) Minimum B) Danger C) Maximum D) EOQ
2. Apart from Personal objective what are the other objectives of H.R.M.?
A) Functional B) Organizational C) Social D) All of the above
3. Which of the following is considered as a role of HR Manager?
A) To design and prepare HR system B) To create positive relationship with customers
C) To identify the learning need D) All of the above
4. Correct the following sequence
1. Screening of application 2. Final selection 3. Employment test 4. Employee interview
A) 4,2,3,1 B) 3,1,2,4 C) 1,3,4,2 D) None of the above
5. In VED inventory technique "V" stands for _____
A) Vital B) Victory C) Very D) Vocal
6. Following is related to grouping of inventories _____
A) ABC analysis B) LIFO method C) FIFO method D) VED analysis
7. ----- is the commonly used as source of internal recruitment
A) Transfer B) Demotion C) Promotion D) Advertisement





8. How many Primary keys can have in a table?
a) Only 1
b) Only 2
c) Depends on no of Columns
d) Depends on DBA
9. Which of the following is not Constraint in SQL
a) Primary Key b) Not Null c) Check d) Union
10. _____ of the following is not a valid aggregate function
a) COUNT b) COMPUTE c) SUM d) MAX
11. Which of the following is true about the HAVING clause
a) Similar to the WHERE clause but is used for columns rather than groups.
b) Similar to WHERE clause but is used for rows rather than columns.
c) Similar to WHERE clause but is used for groups rather than rows.
d) Acts exactly like a WHERE clause.
12. _____ of the following is not a type of SQL statement?
a) Data Manipulation Language (DML)
b) Data Definition Language (DDL)
c) Data Control Language (DCL)
d) Data Communication Language (DCL)

Q.2 Define SQL Explain with its features. [16]

Q.3 Define joins. Explain different types of join with its example. [16]

Q.4 Explain Relational Algebra with its example. [16]

Q.5 What is the function used in SQL [16]

Q.6 Explain the control structures used in PLSQL [16]

Q.7 What is integrity constraints. [16]

Q.8 Write a short note on (Any 4) [20]

- a) Cursor.
- b) Role and Responsibilities of DBA
- c) Order by clause
- d) IN and between operators
- e) Index
- f) Sequence

Seat No

**BCA Part-II (Semester-III) NEP
Examination, March/April -2024
RDBMS**

Subject Code :91170

Day and Date: Monday 15.04.2024

Total Mark :80

Time : 10.30am to 1.30pm

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Que. 1 and Que.8 are compulsory and attempt any three Questions from Que.No.2 to Que. No.7.

Q.1 Multiple Choice Question (12 questions for 1 mark each)

[12]

1. _____ of the following commands do we use to delete a relation (RDBMS) from a database.

- a) delete table RDBMS b) drop table RDBMS
c) delete from RDBMS d) drop relation RDBMS

2. A small entity that contains the specific information of each record in the table is known as _____.

- a) Row b) Column c) Field d) Record

3. _____ of the following operators is used to compare a value to a list of literal values that have been specified.

- a) ANY b) BETWEEN c) IN d) ALL

4. _____ of the following commands is used to delete a trigger in SQL.

- a) DROP b) DELETE c) ALTER d) None of the above

5. Which of the following are valid SQL constraints?

- a) NOT NULL b) CHECK c) UNIQUE d) All of the above

6. SQL views are also known as _____.

- a) Schema b) Virtual Table c) Instance d) None of the above

7. A _____ in a table represents a relationship among a set of values.

- a) Row b) Key c) Column d) Entry



8. The term attribute refers to a _____ of a table.
a) Key b) Record c) Tuple d) Column

9. The full form of RDBMS is _____.
a) Relation Data Base Management Service
b) Relation Data Base Management System
c) Relation Data Base Managerial Service
d) None of the above

10. Date when inserted into a database should be of the format _____.
a) "YYYY-MM-DD" b) DD-MM-YYYY
c) 'YYYY-MM-DD' d) YYYY-MM-DD

11. _____ is the name of the query that is placed within a WHERE or HAVING clause of another query.
a) Sub Query b) Multi Query
c) Super Query d) None of the above

12. _____ the correct foreign key constraint
a) Domain Integrity b) Referential Integrity
c) Entity Integrity d) None of the above

Q.2 Explain the sub-queries used in PHP . [16]

Q.3 Define joins and explain different types of join with its example. [16]

Q.4 Explain Relational Algebra with its example. [16]

Q.5 What is mean by cursor used in MySQL. [16]

Q.6 Explain the control structures used in PLSQL. [16]

Q.7 What is mean by integrity constraints? Explain with its Examples. [16]

Q.8 Write a short note (Any 4) [20]

- a) Trigger.
- b) Aggregate and Math Functions
- c) Having by clause
- d) Order by and between operators
- e) View
- f) Sequence





Seat No

Total No. of Pages-02

B. C. A. Part-II (Semester-III) Examination (Winter) Oct-2023

Subject Name : B.C.A.II(CBCS 83374)Sem-III Web Technology _25.11.2023_2.30pm to 5.30pm

Subject Code : CBCS 83374

Day and Date: Saturday ,25.11.2023

Total Mark : 70

Time : 2.30 pm to 5.30 pm

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Q 1 & Q 6 are compulsory and attempt any three questions from QNo.2 to Q No.5

Q.1 Multiple Choice Question (10 questions for 1 mark each)

[10]

1. How to create a checkbox in HTML

- a) `<input type = "checkbox">` b) `<input type = "button">`
c) `<checkbox>` d) `<input type = "check">`

2. _____ of the following tag is used to add rows in the table

- a) `<td>` and `</td>` b) `<th>` and `</th>`
c) `<tr>` and `</tr>` d) None of the above

3. Which of the following is the container for `<tr>`, `<th>`, and `<td>`

- a) `<data>` b) `<table>` c) `<group>` d) All of the above

4. _____ of the following is the paragraph tag in HTML

- a) `<p>` b) `` c) `<pre>` d) None of the above

5. An HTML program is saved by using the _____ extension.

- a) `.ht` b) `.html` c) `.hml` d) None of the above

6. _____ of the following is the root tag of the HTML document

- a) `<body>` b) `<head>` c) `<title>` d) `<html>`

7. The "function" and "var" are known as:

- a) Keywords b) Data types
b) c) Declaration statements d) Prototypes



8. CSS stands for -

- a) Cascade style sheets
- b) Color and style sheets
- c) Cascading style sheets
- d) None of the above

9. The property in CSS used to change the background color of an element is -

- a) bgcolor
- b) color
- c) background-color
- d) All of the above

10. Which amongst the following is the correct HTML tag for the largest heading?

- a) <head>
- b) <h1>
- c) <heading>
- d) None of the above

B) Write a short answer of the following (Any 2)

[10]

1. What is WDLC? Explain with neat labelled diagram.
2. What is Web Hosting ?
3. Explain the properties of CSS .

Q.2 What is website? Explain in brief.

[10]

Q.3 What is HTML? Explain with its features.

[10]

Q.4 Explain Dialog boxes in JavaScript with example.

[10]

Q.5 What are the advantages and limitations of CSS.

[10]

Q.6 Write a short note on (Any 4)

[20]

- a) Frameset
- b) Event Handling
- c) Identifiers and Operators in JS
- d) Objects
- e) Web Browser
- f) Server Side and Client Side

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Student's Signature	
Seat No.	

Supervisor's Signature	
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B. C. A. II SEM III. (NEP) Winter Examination Oct. 2023
SKILL ENHANCEMENT COURSE
FINANCIAL LITERACY
SUB. CODE-91175

Day and Date: Saturday 02/12/2023

Total Marks :50

Time: - 2.30p.m. to 5.30p.m

Instructions: - 1) All questions are compulsory.

2) Each question carries equal marks.

3) Select the correct option and write down in the box given in front the question

Q. No. 1. Why is financial literacy important in India?

A) to increase taxes B) to reduce inflation C) to empower individuals with financial control D) to control government spending

Q No. 2. Which of the following is a benefit of financial literacy?

A) increase debt B) Haier risk of bankruptcy C) improved financial decision-making D) dependence on loans

Q. No. 3. How does financial literacy contribute to economic growth?

A) by encouraging over spending B) by promoting informed financial choices C) by discouraging entrepreneurship

D) by increasing inflation rates

Q. No. 4. How does financial literacy contribute to poverty reduction?

A) by promoting financial dependency B) by encouraging excessive spending

C) empowering individuals to make informed financial decision D) by avoiding investment altogether

Q. No. 5. How can financial literacy impact long term financial goals?

A) by hindering goal achievement B) buy promoting short-term thinking only

C) by helping in effective goal planning and saving D) by encouraging reliance on credit cards

Q. No. 6. What concept of value of money is associated with its ability to maintain purchasing power over time?

A) Nominal value B) Real value C) Intrinsic value D) Face value



Q. No. 7. Which function of money allows individuals to postpone consumption to a future date?

- A) Medium of exchange B) Unit of account C) Store of value D) Standard of deferred payment

Q. No. 8. Which function of money in ensure that debts and credit can be settled in the future?

- A) Medium of exchange B) Unit of account C) Store of value D) Standard of deferred payment

Q. No. 9. Which function of money helps in preserving wealth across time periods?

- A) medium of exchange B) Unit of account C) Store of value D) Standard of deferred payment

Q. No. 10. What is the primary purpose of savings?

- A) immediate spending B) long term investment C) debt accumulation D) charity donations

Q. No. 11. In contact of savings, what does liquidity refer to?

- A) Ease of converting assets to cash B) fixed term investment C) long term financial goal D) rate of inflation

Q. No. 12. Which factor motivate individuals to save for retirement?

- A) short term financial goals B) social pressure C) long term financial security D) tax evasion

Q. No. 13. How does risk tolerance influence savings decisions?

- A) low risk tolerance leads to more aggressive saving B) no impact C) hi risk tolerance leads to more conservative saving D) risk tolerance doesn't affect savings

Q. No. 14. Which economic conditions is conducive to high savings rates?

- A) high unemployment B) economic recession C) economic growth and stability D) hyper inflation

Q. No. 15. Which type of investment carries the highest risk?

- A) Government bonds B) Blue chip stock C) real estate D) cryptocurrency

Q. No. 16. Which determinant of investment is influenced by interest rates?

- A) government policies B) technology advancements C) cost of capital D) consumer preference



Q. No. 17. Which economic factor influences investment decisions based on future expectations?

- A) Current inflation rate B) Gross domestic product (GDP)
C) Consumer Spending D) Anticipated interest rates

Q. No. 18. Which factor is crucial in determining the value of real estate?

- A) political stability B) location C) current interest rate D) corporate profit

Q. No. 19. What is the primary ownership structure of public sector bank in India?

- A) private ownership B) government ownership C) foreign ownership D) cooperative ownership

Q. No. 20. Which committee recommended the establishment of regional rural Banks (RRBs) in India?

- A) Narasimham committee B) Rangarajan committee C) Gadgil committee
D) Malhotra committee

Q. No. 21. What does the term risk tolerance refer to in investment planning?

- A) willingness to take on financial debt B) ability to tolerate market fluctuations
C) ignoring investment D) predicting market trends

Q. No. 22. What is the term for investment that are easily converted to cash?

- A) Illiquid assets B) tangible assets C) liquid assets D) intangible assets

Q. No. 23. What is the primary purpose of budgeting in financial planning?

- A) limiting income B) controlling expenses C) maximizing debt D) ignoring financial goals

Q. No 24. Who is responsible for appointing the deputy governors of the RBI?

- A) RBI governor B) president of India C) prime minister V) Finance minis

Q. No. 25. Which department of the RBI is responsible for regulating and supervising banks and financial institutions?

- A) Department of currency management Department of Banking supervision
B) Department of economic and policy research
C) Department of Government and bank account
D) All of the above



B.C. A. (Part – II) (Semester – III) Examination, April, 2024

Skill Enhancement Course -III

Financial Literacy Sub Code:91175

Day and Date: Monday,22/04/2024

Time - 10.30.a.m. to 1.30.p.m.

Total Marks: 50

Seat Number	
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Multiple Choice Questions

1.	What is the meaning of financial literacy? A. Budgeting skills B. Understanding and managing money effectively C. Investment in stocks D. Credit card usage	<input type="checkbox"/>
2.	Why is financial literacy important in India? A. To increase taxes B. To reduce inflation C. To empower individuals with financial knowledge D. To control government spending	<input type="checkbox"/>
3.	Which of the following is a benefit of financial literacy? A. Increased debt B. Higher risk of bankruptcy C. Improved financial decision-making D. Dependence on loans	<input type="checkbox"/>
4.	What does the term "budgeting" refer to in financial literacy? A. Spending money without limits B. Planning and managing income and expenses C. Investing in stocks D. Taking loans without repayment plans	<input type="checkbox"/>
5.	In the context of financial literacy, what is the role of investments? A. Accumulating debt B. Growing wealth over time C. Ignoring savings D. Relying solely on fixed deposits	<input type="checkbox"/>
6.	How does financial literacy contribute to economic growth? A. By encouraging overspending B. By promoting informed financial choices C. By discouraging entrepreneurship D. By increasing inflation rates	<input type="checkbox"/>



7.	Which aspect is NOT covered under financial literacy? A. Retirement planning B. Understanding credit scores C. Predicting stock market fluctuations with certainty D. Managing debt responsibly	<input type="checkbox"/>
8.	What is the primary focus of financial literacy education in schools? A. Encouraging impulsive spending B. Ignoring the importance of savings C. Equipping students with financial skills D. Promoting excessive borrowing	<input type="checkbox"/>
9.	How does financial literacy contribute to poverty reduction? A. By promoting financial dependency B. By encouraging excessive spending C. By empowering individuals to make informed financial decisions D. By avoiding investments altogether	<input type="checkbox"/>
10.	Which financial tool helps in establishing a good credit history? A. Maxing out credit cards B. Regularly paying bills on time C. Avoiding any financial transactions D. Accumulating high-interest debt	<input type="checkbox"/>
11.	What concept of the value of money relates to its acceptance as a means of payment by law? A) Nominal value B) Legal value C) Face value D) Intrinsic value	<input type="checkbox"/>
12.	In the Middle Ages, what type of money was commonly used in trade fairs and markets? A) Cowrie shells B) Gold coins C) Silver bar D) Tally sticks	<input type="checkbox"/>
13.	Which function of money enables individuals to compare the value of different goods and services? A) Medium of exchange B) Unit of account C) Store of value D) Standard of deferred payment	<input type="checkbox"/>
14.	: What concept of the value of money is associated with its physical characteristics, like weight and size? A) Nominal value B) Real value C) Face value D) Intrinsic value	<input type="checkbox"/>
15.	What role does income play in savings? A) Negative determinant B) No impact C) Positive determinant D) Indirect impact	<input type="checkbox"/>



16.	In the context of savings, what does liquidity refer to? A) Ease of converting assets to cash B) Fixed-term investments C) Long-term financial goals D) Rate of inflation	<input type="checkbox"/>
17.	Which economic factor can negatively affect savings by reducing purchasing power? A) Deflation B) Recession C) Boom D) Stagflation	<input type="checkbox"/>
18.	What is the primary purpose of an emergency fund? A) Long-term investment B) Short-term savings C) Speculative trading D) Daily expenses	<input type="checkbox"/>
19.	Which factor motivates individuals to save for retirement? A) Short-term financial goals B) Social pressure C) Long-term financial security D) Tax evasion	<input type="checkbox"/>
20.	How does financial literacy impact savings behavior? A) Increases savings B) Decreases savings C) No impact D) Increases debt	<input type="checkbox"/>
21.	What is the primary ownership structure of Public Sector Banks in India? A) Private ownership B) Government ownership C) Foreign ownership D) Cooperative ownership	<input type="checkbox"/>
22.	What is the minimum voting right percentage that the government typically holds in Public Sector Banks? A) 26% B) 51% C) 75% D) 100%	<input type="checkbox"/>
23.	Cooperative Banks in India operate based on the principles of: A) Profit maximization B) Social service C) Government control D) Foreign investments	<input type="checkbox"/>
24.	The concept of "Lead Bank" was introduced on the recommendation of which committee? A) Narasimhan Committee B) Rangarajan Committee C) Gadgil Committee D) Malhotra Committee	<input type="checkbox"/>
25.	Which account is primarily used for daily transactions and is suitable for business operations? A. Savings account B. Current account C. Recurring deposit account D. Fixed deposit account	<input type="checkbox"/>







B.C.A. – IInd Year

SEM – IV

Previous Year

Question Papers

Academic Year

(2023-24)



Seat No	
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Total No. of Pages: 02

B. C. A. Part-II (Semester-IV) Examination (Winter) Oct-2023
Subject Name : B.C.A.II(CBCS 83381)Sem-III RDBMS_25.11.2023_10.30am to 1.30pm

Subject Code : CBCS 83381

Total Mark : 70

Day and Date: Saturday ,25.11.2023

Time : 10.30 am to 1.30 pm

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Q 1 & Q 6 are compulsory and attempt any three questions from QNo.2 to Q No.5

Q.1 Multiple Choice Question (10 questions for 1 mark each) [10]

1. A relational database developer refers to a record as?

- a) Relation b) Tuple c) Data d) None of the above

2. Modify operation is done after which operation?

- a) LookUp b) Insert c) Delete d) None of the above

3. What kind of Joins is a default in SQL?

- a) Inner b) Outer c) Self d) None of the above

4. _____ of the following is NOT a SQL command?

- a) Similar b) From c) Like d) Select

5. Which of the following is true about the execution section of a PL/SQL block

- a) It is a mandatory section.
b) Consists of the executable PL/SQL statements.
c) It is enclosed between the keywords BEGIN and END.
d) All of the above

6. _____ deletes a data item from a database.

- a) Insert (RDBMS) b) Drop (RDBMS)
c) Delete (RDBMS) d) None of the mentioned

7. What type of join is this?

- a) Block nested loop join b) Nested loop join
c) Hash join d) Equi join



8. _____ of the following is not a built in aggregate function in SQL?
a) avg b) max c) total d) count
9. _____ of the following symbols represent relationship sets in an ER diagram
a) Divided rectangles b) Diamonds
c) Lines d) Undivided rectangles
10. Which of the following is the full form of RDBMS?
a) Relational Data Management System
b) Relational Database Management System
c) Relative Database Management System
d) Regional Data Management System

B) Write a short answer of the following (Any 2) [10]

1. What is Cursor? Explain with example .
2. Write any four string functions with Example.
3. What is sequence ? Explain with its use and Example.

Q.2 What are the advantages of Index. How to create index. [10]

Q.3 Explain the concept of joins with its examples. [10]

Q.4 What is integrity constraints . Explain with its Example. [10]

Q.5 Explain looping statements used in PL/SQL. [10]

Q.6 Write a short note on (Any 4) [20]

- a) View
- b) Role and Responsibilities of DBA
- c) SQL
- d) IN and Exists operators
- e) Trigger
- f) subqueries

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Seat No

**BCA Part-II (Semester-IV) CBCS
Examination March/April -2024
RDBMS**

Subject Code :83381

Day and Date: Monday 15.04.2024

Total Mark :70

Time : 2.30pm to 5.30pm

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Que. 1 and Que.6 are compulsory and attempt any three Questions from Que.No.2 to Que. No.5

Q.1 Multiple Choice Question (10 questions for 1 mark each) [10]

1. _____ provides the ability to query information from the database and insert tuples into, delete tuples from, and modify tuples in the database.
- a) DML(Data Manipulation Language)
b) DDL(Data Definition Language)
c) Query
d) Relational Schema
2. _____ is the one to many relationships .
- a) One class may have many teachers
b) One teacher can have many classes
c) Many classes may have many teachers
d) Many teachers may have many classes
3. A Database Management System is a type of _____ software.
- a) It is a type of system software b) It is a kind of application software
c) It is a kind of general software d) Both A and C
4. The term "FAT" is stands for _____
- a) File Allocation Tree b) File Allocation Table
c) File Allocation Graph d) All of the above
5. _____ of the following refers to the number of tuples in a relation.
- a) Entity b) Column c) Cardinality d) None of the above
6. _____ is a type of Data Manipulation Command.
- a) Create b) Alter c) Delete d) All of the above
7. _____ is a top-down approach in which the entity's higher level can be divided into two lower sub-entities.
- a) Aggregation b) Generalization
c) Specialization d) All of the above



8. A relational database developer refers to a record as _____
a) Relation b) Tuple c) Data d) None of the above

9. Modify operation is done after which operation _____
a) LookUp b) Insert c) Delete d) None of the above

10. _____ of Joins is a default in SQL .
a) Inner b) Outer c) Self d) None of the above

B) Write a short answer of the following (Any 2) [10]

1. Explain the cursor with example .
2. Write any four math functions with Example.
3. What is sequence? Explain with its use and Example.

Q.2 What is SQL. Explain in brief [10]

Q.3 Explain the concept of joins with its examples. [10]

Q.4 What is integrity constraints . Explain with its Example. [10]

Q.5 Explain branching statements used in PL/SQL. [10]

Q.6 Write a short note on (Any 4) [20]

- a) View
- b) Role and Responsibilities of DBA
- c) Index
- d) IN and BETWEEN operators
- e) Trigger
- f) Stored Procedure

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Seat No

Total No. of Pages-02

October Examination-2023

B.C.A. II Sem IV (CBCS 83382)

Subject : Software Engineering_22.06.2023_10.30 am to 1.30 pm

Subject Code : CBCS 83382

Day and Date: Tuesday, 28.11.2023

Total Mark : 70

Time : 10.30 am to 1.30 pm

Instructions:

1) Figures to the right indicate full marks

Special Instructions:

1) Que. 1 and Que.6 are compulsory and attempt any three Questions from Que.No.2 to Que. No.5

Q.1 Select Correct Alternative

1. data model contains _____
 - a) data object
 - b) attributes
 - c) relationships
 - d) all of the mentioned
2. HIPO stand for _____
 - a) Hierarchy input process output
 - b) Hierarchy input plus output
 - c) Hierarchy plus input process output
 - d) Hierarchy input output Process
3. Which of the following is not a component in DFD?
 - a) Entities
 - b) Attributes
 - c) Process
 - d) Data Flow
- 4) _____ is not a fundamental activity for software processes in software development.
 - a) Evolution
 - b) Design and implementation
 - c) Validation
 - d) Verification
5. In which step of SDLC actual programming of software code is done?
 - a) Development and Documentation
 - b) Maintenance and Evaluation
 - c) Design
 - d) Analysis
- 6) _____ of the following word correctly summarized the importance of software design.
 - a) Complexity
 - b) Efficiency
 - c) Accuracy
 - d) Quality
7. _____ is multi-valued attribute
 - a) phone_no
 - b) Birth_date
 - c) Name
 - d) Gender



8. An entity set that does not have sufficient attributes to form a primary key is termed a _____
- a) Strong entity set
 - b) Variant set
 - c) Weak entity set
 - d) Variable set
- 9) The Rectangles divided into two parts represents _____
- a) Entity set
 - b) Relationship set
 - c) Attributes of a relationship set
 - d) Primary key
10. _____ identifies documents and verifies that corrections have been made in the software
- a) Project team
 - b) SQA Group
 - c) Project Manager
 - d) Developer

Q.1 B. Write a Short answers of the following. (Any 2) 10

- a) Explain Characteristics of good SRS.
- b) Differentiate between Verification and validation process,
- c) Explain Decision Tree

Q.2 Explain Spiral model 10

Q.3 Explain White Box Testing 10

Q.4 Explain SDLC 10

Q.5 Explain Requirement elicitation techniques. 10

Q.6 Write a short note on (Any 4) 20

- a) Decision Table
- b) Structured Chart
- c) Characteristics of system
- d) SQA activities
- e) Unit Testing
- f) Format Technical Review

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Seat No.

BCA Part-II (Semester-IV) (CBCS) NEP

Examination, March/April-2024

Software Engineering

Subject Code: 91179

Day and Date: Tuesday, 16/04/2024

Total Marks: 80

Time: 2.30 pm To 5.30 pm

Instructions: 1) Que.1 and Que.8 are compulsory and attempt any three Questions from Que.2 to Que.7.

2) Figures to the right indicate full marks.

Qu.1) Multiple Choice Questions

(12)

- 1) Following is not the elements of a system
a) Input and output b) Design c) Control d) Feedback
- 2) DFD stands for _____
a) Data Forward Diagram b) Design Flow Diagram
c) Data Flow Diagram d) Design Forward Diagram
- 3) _____ is a collection of integrated programs.
a) Software b) Hardware c) Both d) None of these
- 4) _____ is defined as the process of developing a working replication of a product or system that has to be engineered.
a) Waterfall Model b) Prototyping Model
c) Spiral Model d) None of these
- 5) There are _____ types of feasibility study in Requirement Engineering Process.
a) 1 b) 2 c) 3 d) 4
- 6) SRS stands for _____.
a) Software Requirement Specifications
b) System Requirement Specifications
c) Software Requirement Sources
d) System Requirement Sources
- 7) _____ ensures that the product actually meets the client's needs.
a) Validation Testing b) System Testing
c) Integration Testing d) None of these
- 8) _____ activity to ensure that an organization is providing the best product or service to the customers.
a) Quality Assurance b) Software Testing
c) Integration Testing d) None of these



- 9) ____ is a set file or files that includes database's metadata.
a) DFD b) Data Dictionary c) SDLC d) System
- 10) There are ____ types of Software Requirements.
a) 2 b) 3 c) 4 d) 5
- 11) _____ model that provides a systematic and iterative approach to software development.
a) Waterfall Model b) Prototyping Model c) Spiral Model d) None of these
- 12) ____ is defined as the product or services that should be "fit for use and purpose."
a) Quality b) Quality Assurance c) Quality Control d) All

Qu.2) What is System? Explain System Development Life Cycle in detail. (16)

Qu.3) What is Software Engineering? Explain the difference between Software Engineering and Software Programming. (16)

Qu.4) What is Requirement Engineering? Explain different types of requirements. (16)

Qu.5) What is Software Testing? Explain Black-Box testing and White-Box Testing. (16)

Qu.6) Explain the importance of Software Quality Assurance. (16)

Qu.7) What DFD? Explain with suitable example. (16)

Qu.8) Write notes on (Any Four) (20)

- a) ER Diagram
- b) Characteristics of a good software design
- c) Waterfall Model
- d) Characteristics of good SRS
- e) Cost of Quality
- f) SQA Plan



Seat No

**BCA Part-II (Semester-IV) CBCS
Examination, March/April -2024**

**Dot Net Technology
Subject Code :83383**

Day and Date: Thursday ,18.04.2024

Total Mark :70

Time : 2.30 pm to 5.30 pm

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Que. 1 and Que.6 are compulsory and attempt any three
Questions from Que.No.2 to Que. No.5

Q.1 Multiple Choice Question (10 questions for 1 mark each)

[10]

1. _____ describes how types are declared, used, and managed in the runtime.

- a) Common language Specifications
- b) Common language Runtime
- c) Common Type System
- d) Framework Class Library

2. To check the status of the connection, _____ property is useful

- a) ConnectionStatus
- b) Status
- c) State
- d) ConnectionState

3. Which is not an ADO.NET DataAdapter Object?

- a) OleDbDataAdapter
- b) SqlDataAdapter
- c) QueryDataAdapter
- d) Both a and b



4. The first event triggers in an aspx page is.

- a) Page_Init()
- b) Page_Load()
- c) Page_click()
- d) Page_hover()

5. Dataset is _____ type object

- a) Connected
- b) Disconnected
- c) A and B both
- d) None of the Above

6. Which of the following is not DataReader Method?

- a) NextResult
- b) GetName
- c) GetValue
- d) GetDataTypes

7. How do you explicitly kill a user session?

- a) Session.Close()
- b) Session.Discard()
- c) Session.Abandon
- d) Session.End

8. Common type system is built into which of the following.

- a) CLR
- b) RCT
- c) RCW
- d) GAC

9. _____ parameters are used to pass results back to calling method

- a) Input
- b) Reference
- c) Value
- d) Output

10. Boxing converts a value type on stack to a _____ on the heap.

- a) Bool type
- b) Instance type
- c) Class type
- d) Object type

B) Write a short answer of the following (Any 2) [10]

1. What is type casting? Explain the concept of boxing and unboxing.
2. Explain Globalization and Localization.
3. Explain connected and Disconnected architecture.

Q.2 What is Dot Net framework? Explain features of Dot Net Framework. [10]

Q.3 Define ADO.Net. Explain architecture of ADO.Net with neat diagram. [10]

Q.4 Explain different validation controls in ASP.Net with example. [10]

Q.5 What is state management? Explain types state management with example. [10]

Q.6 Write a short note on (Any 4) [20]

- a) Entry point method.
- b) Any two ADO.Net Classes
- c) Response.redirect and server.transfer
- d) Types of JIT compilers
- e) Looping statements in C#.
- f) Navigation controls





Seat No.

October (winter) Examination-2023

Subject Name: BCA Part II CBCS (Sem IV)

Dot Net Technology

29.11.2023_10:30am to 1:30 pm

Subject Code: CBCS 83383

Day & Date: Wednesday 29/11/2023

Total Marks: 70

Time: 10:30am to 01:30pm

Instructions: 1) Figures right to indicate.

Special Instructions: 1) Q 1 & Q 6 are compulsory and attempt any three questions from QNo.2 to Q No.5

Q1) A) Multiple choice Questions (10 Questions for 1 mark each)

(10)

1. Which of the following programming language can be used with ASP.NET?

- A. C#.NET
- B. VB.NET
- C. Both
- D. None

2. In which form does Postback occur?

- A. Win Forms
- B. HTML Forms
- C. Web Forms
- D. All

3. MVC stands for _____.

- A. Model Vocal Controller
- B. Model View Count
- C. Model View Controller
- D. Mode View Controller

4. Which term is used for pages that depend on the Master page?

- A. Content Pages
- B. Master Pages
- C. Web Pages
- D. None of the above

5. The ASP.NET developed by?

- A. Google
- B. Oracle
- C. Sun Microsystems
- D. Microsoft



6. In _____, a virtual method is called which is decided at runtime.
- A. Late binding
 - B. Early binding
 - C. Lazy binding
 - D. Global binding
7. Which is not a page event in ASP.Net?
- A. PreLoad
 - B. Load
 - C. LoadComplete
 - D. UpLoad
8. _____ is used to redirect the user's browser to another page or site.
- A. Response.Redirect
 - B. Server.Redirect
 - C. Client.Transfer
 - D. Server.Transfer
9. Which of the following technologies are also used with ASP.NET?
- A. CSS
 - B. JavaScript
 - C. AJAX
 - D. All
10. Which of the following tag is used for the HTML checkbox?
- A. <check>
 - B. <checkbox>
 - C. <input>
 - D. None of the above

B) Short Answers questions (Any 2 out of 3)

(10)

- 1) Role of web server.
 - 2) Partial class with example
 - 3) Data type in C#.
- Q2) Explain different types of server control. **(10)**
- Q3) Explain Event Handling in Web forms. **(10)**
- Q4) Explain architecture of Dot Net Framework **(10)**
- Q5) Explain state management in ASP.NET. **(10)**

Q6) Write Notes (Any 4 out of 6)

(20)

- 1) Managed code and Unmanaged code
- 2) JIT Compiler
- 3) Globalization and Localization
- 4) Data Reader.
- 5) CLR.
- 6) Web Form life cycle.



Seat No.

October (winter) Examination-2023

Subject Name: BCA Part II CBCS (SemIV)

Entrepreneurship development

30.11.2023_10:30am to 1:30 pm

Subject Code: CBCS 83384

Total Marks: 70

Day & Date: Thursday 30/11/2023

Time: 10:30am to 01:30pm

Instructions: 1) Figures right to indicate.

Special Instructions: 1) Q 1 & Q 6 are compulsory and attempt any three questions from QNo.2 to Q No.5

Q1) A) Multiple choice Questions (10 Questions for 1 mark each)

(10)

1 An individual who initiates, creates and manages a new business can be called ____

- A. A leader
B. A manager
C. An entrepreneur
D. A professional

2. _____ is the process through which individual perceives opportunities without regard to resources they possess.

- A. Start-up Management
B. Entrepreneurship
C. Financial Analysis
D. Feasibility Planning

3. The term 'Entrepreneur' was derived from French word _____

- A. Enter purpose
B. Enterprise
C. Enter procedure
D. Enterprendre

4. Which industrial sector tends to naturally promote small-scale businesses and Entrepreneurship, and generally has lower barriers to market entry?

- A. Service.
B. Manufacturing.
C. Distribution.
D. Agriculture.

5. Which of the following factors would not be included in a PESTLE analysis?

- A. Government re-cycling policy.
B. Proposed reduction in interest rates.
C. Competitor activity.
D. Demographic changes

6. Why are small businesses important to a country's economy?

- A. They give an outlet for entrepreneurs.
B. They can provide specialist support to larger companies.
C. They can be innovators of new products.
D. All the above.

7. Good sources of information for an entrepreneur about competitors can be obtained from _____.

- A. Websites.
B. Product information leaflets.



C. Company reports and published accounts. D. All the above.

8. Which of the following is the reason for business failure _____
A. Lack of market research. B. Poor financial control.
C. Poor management. D. All the above.

9. The use of informal networks by entrepreneurs to gather information is known as _____.
A. Secondary research. B. Entrepreneurial networking.
C. Informal parameters. D. Marketing

10. A business arrangement where one party allows another party to use a business name and sell its products or services is known as _____.
A. A cooperative. B. A franchise.
C. An owner-manager business. D. A limited company.

B) Short Answers questions (Any 2 out of 3) (10)

- 1) Explain the various schemes of Government regarding promotions of Entrepreneurship
- 2) Explain the Characteristics of Entrepreneurs
- 3) Describe the Digital business platforms

Q2) Describe the sources of finance (10)

Q3) Explain in detail Business plan with suitable example. (10)

Q4) Explain the women Entrepreneurs with giving a suitable example (10)

Q5) Explain the challenges of digital Entrepreneurship (10)

Q6) Write Notes (Any 4 out of 6) (20)

- 1) DIC and SIDCO
- 2) Types of Entrepreneurs
- 3) Sources of business ideas
- 4) IT Entrepreneurs
- 5) Components of business models
- 6) Digital business models

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Seat No.

**BCA Part II (Semester IV) NEP
Examination March- April -2024
Entrepreneurship development
Subject Code: 91181**

Day & Date: Friday 19/04/2024

Total Marks: 80

Time: 02:30pm to 5:30 pm

Instructions: 1) Figures right to indicate.

Special Instructions: 1) Q 1 & Q 8 are compulsory and Attempt any three questions from QNo.2 to QNo.7

Q1) A) Multiple choice Questions (12 Questions for 1 mark each) (12)

1. When was Make in India programme launched?
A. September 25, 2014 B. October 2, 2015. C. October 11, 2016 D. July 15, 2015
2. Entrepreneurship is useful to the organization because of _____
A. Development of managerial capabilities B. Creation of organization
C. Improving standard of living & economic development D. All of these
3. Which could provide an individual with the motivation to start a new business venture?
A. The financial rewards. B. A desire to be independent.
C. Risk-taking D. All the above.
4. Which of the following factors would not be included in a PESTLE analysis?
A. Government re-cycling policy. B. Proposed reduction in interest rates.
C. Competitor activity. D. Demographic changes
5. The term 'Entrepreneur' was derived from French word _____
A. Enterpurpose B. Enterprise.
C. Enter procedure D. Enterprendre
6. SIDBI was set up as a subsidiary of _____
A. IDBI B. IFCI
C. ICICI D. SFC
7. An individual who initiates, creates and manages a new business can be called ____
A. A leader B. A manager
C. An entrepreneur D. A professional



8. Which of the following is the reason for business failure _____
A. Lack of market research. B. Poor financial control.
C. Poor management. D. All the above.

9. Which of the following sector is not covered in the Make in India programme?
A. Automobiles B. Biotechnology
C. Media and entertainment D. Education

10. Good sources of information for an entrepreneur about competitors can be obtained from _____.
A. Websites. B. Product information leaflets.
C. Company reports and published accounts. D. All the above.

11. As a business grows, time management continues to be an issue, but the entrepreneur's major concern usually becomes _____
A. Settings goals B. Finding, retaining & motivating employees
C. Measuring performance D. All the above

12. The conclusion of the business plan will identify _____
A. Feasibility of business B. Purpose of business
C. Form of organisation D. Business vendors

Q2) State the difference between Entrepreneur and manger (16)

Q3) Explain in detail Business plan with suitable example. (16)

Q4) Describe the various methods of idea generation (16)

Q5) Explain the women entrepreneur with giving a suitable example (16)

Q6) What are the different types of finance (16)

Q7) Explain role of entrepreneurship in economic development (16)

Q8) Write Notes (Any 4 out of 6) (20)

- 1) Significance of business plan
- 2) DIC
- 3) Digital business models
- 4) IT Entrepreneurs: N.R. Narayan Murthy
- 5) Components of business websites
- 6) Make in India



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Seat No. _____

BCA Part II (SemIV) CBCS
Examination March- April -2024
Entrepreneurship development
Subject Code: 83384

Day & Date: Friday 19/04/2024

Total Marks: 70

Time: 02:30pm to 5:30 pm

Instructions: 1) Figures right to indicate.

Special Instructions: 1) Q 1 & Q 6 are compulsory and Attempt any three questions from QNo.2 to Q No.5

Q1) A) Multiple choice Questions (10 Questions for 1 mark each) (10)

1 A business arrangement where one party allows another party to use a business name and sell its products or services is known as _____

- A. A cooperative
B. A franchise.
C. An owner-manager business
D. A limited company

2. Entrepreneurship is useful to the organization because of _____

- A. Development of managerial capabilities
B. Creation of organization
C. Improving standard of living & economic development
D. All of these

3. Which could provide an individual with the motivation to start a new business venture?

- A. The financial rewards.
B. A desire to be independent.
C. Risk-taking
D. All the above.

4. Which of the following factors would not be included in a PESTLE analysis?

- A. Government re-cycling policy.
B. Proposed reduction in interest rates.
C. Competitor activity.
D. Demographic changes

5. The term 'Entrepreneur' was derived from French word _____

- A. Enterpurpose
B. Enterprise.
C. Enterprocedure
D. Enterprendre

6. SIDBI was set up as a subsidiary of _____

- A. IDBI
B. IFCI
C. ICICI
D. SFC

7. An individual who initiates, creates and manages a new business can be called _____

- A. A leader
B. A manager
C. An entrepreneur
D. A professional



8. Which of the following is the reason for business failure _____
A. Lack of market research. B. Poor financial control.
C. Poor management. D. All the above.

9. The use of informal networks by entrepreneurs to gather information is known as _____.
A. Secondary research. B. Entrepreneurial networking.
C. Informal parameters. D. Marketing

10. Good sources of information for an entrepreneur about competitors can be obtained from _____.
A. Websites. B. Product information leaflets.
C. Company reports and published accounts. D. All the above.

B) Short Answers questions (Any 2 out of 3) (10)

- 1) Describe the Digital business platforms
- 2) Explain the Characteristics of Entrepreneurs
- 3) Describe the Sources of finance

Q2) Explain in detail Business plan with suitable example. (10)

Q3) Explain the various schemes of Government regarding promotions of Entrepreneurship (10)

Q4) Explain the women Entrepreneurs with giving a suitable example (10)

Q5) Explain the challenges of digital Entrepreneurship (10)

Q6) Write Notes (Any 4 out of 6) (20)

- 1) Types of Entrepreneurs
- 2) Sources of business ideas
- 3) DIC
- 4) Digital business models
- 5) IT Entrepreneurs: Shiv Nadar
- 6) Components of business websites



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Seat No

**B.C.A. PART-II (Semester – IV) NEP
Examination March/April 2024
Enterprise Resource Planning (ERP)
Subject Code : 91182**

Day and Date: Saturday ,20-04-2024
Time : 2.30 pm to 5.30 pm

Total Mark :80

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Que. 1 and Que.8 are compulsory and attempt any three Questions from Que.No.2 to Que. No.7

Q.1 Select Correct Alternative

12

1. What is the purpose of the SCM module in ERP systems?
 - a) Managing customer relationships
 - b) Managing supplier relationships and logistics
 - c) Optimizing manufacturing processes
 - d) Tracking financial transactions and report
- 2) The first step in business strategy is _____.
 - a) Planning
 - b) develop blueprint
 - c) Marketing
 - d) assessment
- 3) ERP system is for _____.
 - a) major departments only
 - b) entire organization
 - c) marketing and sales.
 - d) production department
- 4) Which area is the Financial Module responsible for?
 - a) Define Strategy Group
 - b) Cash Flow management
 - c) Create Purchase Order
 - d) Product Planning
- 5) _____ process decides the success or failure of the project.
 - a) Handling the vendors.
 - b) Role of technology.
 - c) Selection process
 - d) Implementation
- 6) Which module of ERP focuses on managing human resources, such as employee records and payroll?
 - a) Financial Management
 - b) Human Resource Management
 - c) Supply Chain Management
 - d) Production Planning
- 7) The most important step of ERP implementation is _____ phase.
 - a) Installing
 - b) Training
 - c) gap analysis
 - d) testing



Seat No

**BCA Part II(Semester-IV) NEP
Examination, March/April -2024
Object Oriented Programming using C++
Subject Code :91178**

Day and Date: Monday ,15.04.2024

Total Mark :80

Time : 2.30 pm to 5.30 pm

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Que. 1 and Que.8 are compulsory and attempt any three Questions from Que.No.2 to Que. No.7.

Q.1 Multiple Choice Question (12 questions for 1 mark each)

[12]

1. Why are comments used?

- a) Make the program run faster
- b) To help others read & understand the program
- c) Increase the size of the executable program
- d) Make a program compile easier

2. How many types of access specifiers are provided in OOP (C++)?

- a) 4
- b) 3
- c) 2
- d) 1

3. In multiple inheritance, if class C inherits two classes A and B as follows,

which class constructor will be called first?

```
class A{ };  
class B{ };  
class C: public A, public B{ };
```

- a) A()
- b) B()
- c) C()
- d) Can't be determined

4. Which of the following approach is adapted by C++?

- a) Top-down
- b) Bottom-up
- c) Right-left
- d) Left-right

5. Which of the following concept of oops allows compiler to insert arguments in a function call if it is not specified?

- a) Call by value
- b) Call by reference
- b) Default arguments
- d) Call by pointer

6. What is an object in c++?

- a) It is function of class
- b) It is instance of class
- c) It is datatype of class
- d) It is part of the syntax of class



7. What does a C++ class hold?
 a)Function b)Data c)Arrays d)Both a and b
8. The constants in C++ are also known as?
 a) pre-processor b)literals c)const d)none
9. When can an inline function be expanded?
 a) Runtime b) Compile time
 c)Never gets expanded d) All of the above
10. Identify the scope resolution operator.
 a) : b) :: c) ? d) None
11. Which of the following statement is correct?
 a) C++ allows static type checking.
 b) C++ allows dynamic type checking.
 c) C++ allows static member function be of type const.
 d) Both A and B.
12. Identify the incorrect constructor type.
 a) Friend constructor b) Default constructor
 c) Parameterized constructor d) Copy constructor

Q.2 Explain static polymorphism and dynamic polymorphism. [16]

Q.3 Explain concept of virtual function and pure virtual function. [16]

Q.4 Explain Friend function definition and class. [16]

Q.5 Explain structure of c++ program and state benefits of it. [16]

Q.6 What is constructor. Explain types of constructor. [16]

Q.7 What is inheritance. Explain types of inheritance. [16]

Q.8 Write a short note (Any 4) [20]

- a) Basics of OOP.
 b) New and Delete operator.
 c) Inline function
 d) Features of OOP.
 e) Static class members.
 f) Arguments to a function.



Seat No.

**BCA Part-II (Semester-IV) NEP
Examination March/April -2024
PHP**

Subject Code :91180

Day and Date: Thursday ,18.4.2024

Total Mark :80

Time : 2.30 pm to 5.30 pm

Instructions:

1) Figures to the right indicate full marks.

Special Instructions:

1) Que. 1 and Que.8 are compulsory and attempt any three Questions from Que.No.2 to Que. No.7

Q.1 Multiple Choice Question (12 questions for 1 mark each) [12]

- In PHP, _____ of these is the correct way in which we can create a function.
a. New_function myFunction() b. Function myFunction()
c. Create myFunction() d. None of the above
- _____ of these functions is used for sorting an array in a descending order.
a. rsort() b. dsort() c. asrot() d. sort()
- The term PHP is an acronym for PHP _____.
a. Hypertext Preprocessor b. Hypertext multiprocessor
c. Hypertext markup Preprocessor d. Hypertunse Preprocessor
- _____ is the founder of php language.
a. Tim Berners-Lee b. Brendan Eich
c. Guido van Rossum d. Rasmus Lerdorf
- _____ of the following is the correct syntax of php.
a. <?php > b. <php > c. ?php ? d. <?php ?>
- _____ echo and print, which is faster.
a) Print b) echo c) Both the same speed d) None
- _____ function is used to set cookie in PHP.
a.createcookie() b.makecookie() c.setcookie() d.None of the above



Seat No-

BCA Part-II(Semester-IV) NEP

Examination March /April 2024

ENVIRONMENTAL STUDIES (COMPULSORY)

Subject Code-91186

Day & Date : Monday,22/04/2024

Total Marks-70

Time: 2.30pm - 5.30pm

Instructions : 1) All Questions are compulsory and attempt any three questions from Que. No.2 to Que. No. 5

2) Figure to the right indicates full marks.

Q. 1A. Select correct answer from the given alternatives: (10)

i) Following is the science of interrelationship between living organisms and non-living organisms

- a) Biology
b) Biotechnology
c) Ecology
d) None of the above

ii) The first Earth Summit of United Nations was held in

- a) Stockholm
b) Tokyo
c) Newyork
d) Monetreal

iii) Climatic phenomenon is associated wth the following disaster

- a) Landslide
b) Tsunami
c) Cyclone
d) Earthquake

iv) Following is the non-renewable resource

- a) Forest
b) Water
c) Petroleum
d) Sunlight

v) Noise pollution is measured by

- a) Joules
b) Dynes
c)Hertz
d) Decibel

vi) Wind mills are responsible for following type of pollution

- a) Noise pollution
b) Solid waste pollution
c) Water pollution
d) Air pollution



vii) Following type of ecological pyramid is always upright

- a) Pyramid of energy b) Pyramid of number
c) Pyramid of biomass d) None of the above

viii) 'Gir' National Park is situated in

- a) Tamil Nadu b) Uttarakhand
c) Kerala d) Gujarat

ix) Percentage of water on the earth present in an ocean is

- a)97.2 b)93.2 c)80.1 d)91.2

x) The World Earth Day is celebrated on

- a) 22July b) 22April
c) 23June d) 23December

B. Answer any TWO of the following:

(10)

1. Explain pyramids of numbers.
2. Give importance of environmental studies.
3. Explain the effects of modern agriculture.

Q.2 What are types of energy resources? Write in brief the use of alternate energy resources.

(10)

Q.3 Define environment. Explain the need of public awareness about environment protection.

(10)

Q.4 Explain structure and function of an aquatic ecosystem.

(10)

Q.5 Discuss causes and effects of air pollution.

(10)

Q.6 Write short notes on any FOUR:

(20)

1. Deforestation
2. Food Chain
3. Solar Energy
4. Soil Pollution
5. Water resources
6. Conservation of biodiversity



Seat No-

BCA Part-II(Semester-IV) CBCS

Examination March /April 2024

ENVIRONMENTAL STUDIES (COMPULSORY)

Subject Code-83818

Day & Date : Monday,22/04/2024

Total Marks-70

Time: 2.30pm - 5.30pm

Instructions : 1) All Questions are compulsory and attempt any three questions from Que. No.2 to Que. No.5

2) Figure to the right indicates full marks.

Q. 1A. Select correct answer from the given alternatives: (10)

i) Following is the science of interrelationship between living organisms and non-living organisms

- | | |
|------------|----------------------|
| a) Biology | b) Biotechnology |
| c) Ecology | d) None of the above |

ii) The first Earth Summit of United Nations was held in

- | | |
|--------------|--------------|
| a) Stockholm | b) Tokyo |
| c) Newyork | d) Monetreal |

iii) Climatic phenomenon is associated wth the following disaster

- | | |
|--------------|---------------|
| a) Landslide | b) Tsunami |
| c) Cyclone | d) Earthquake |

iv) Following is the non-renewable resource

- | | |
|--------------|-------------|
| a) Forest | b) Water |
| c) Petroleum | d) Sunlight |

v) Noise pollution is measured by

- | | |
|-----------|------------|
| a) Joules | b) Dynes |
| c)Hertz | d) Decibel |



vi) Wind mills are responsible for following type of pollution

- a) Noise pollution
- b) Solid waste pollution
- c) Water pollution
- d) Air pollution

vii) Following type of ecological pyramid is always upright

- a) Pyramid of energy
- b) Pyramid of number
- c) Pyramid of biomass
- d) None of the above

viii) 'Gir' National Park is situated in

- a) Tamil Nadu
- b) Uttarakhand
- c) Kerala
- d) Gujarat

ix) Percentage of water on the earth present in an ocean is

- a) 97.2
- b) 93.2
- c) 80.1
- d) 91.2

x) The World Earth Day is celebrated on

- a) 22 July
- b) 22 April
- c) 23 June
- d) 23 December

B. Answer any TWO of the following:

(10)

- a) Discuss the role of an individuals in conservation of natural resources.
- b) Explain pyramids of numbers.
- c) Give importance of environmental studies.

Q.2 What are types of energy resources? Write in brief the use of alternate energy resources.

(10)

Q.3 Define environment. Explain the need of public awareness about environment protection.

(10)

Q.4 Explain structure and function of an aquatic ecosystem.

(10)

Q.5 Discuss causes and effects of air pollution.

(10)

Q.6 Write short notes on any FOUR:

(20)

1. Deforestation
2. Food Chain
3. Solar Energy
4. Soil Pollution
5. Water resources
6. Conservation of biodiversity



B.C. A. (Part – II) (Semester – IV) Examination, April, 2024

Skill Enhancement Course -IV

E-Banking Sub Code: 95025

Day and Date: Tuesday, 23/04/2024

Time - 2.30.p.m. to 5.30.p.m.

Total Marks: 50

Seat Number	
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Multiple Choice Questions

1.	What should you do if you receive a UPI payment request from an unknown sender? a) Accept it without hesitation b) Decline the request and block the sender c) Share your UPI PIN with the sender for verification d) Ignore the request and delete it	<input type="checkbox"/>
2.	Which of the following is NOT a precaution for secure UPI transactions? a) Using public Wi-Fi for transactions b) Verifying the authenticity of UPI apps before installing c) Keeping your UPI PIN confidential d) Regularly reviewing your transaction history	<input type="checkbox"/>
3.	Which of the following is a characteristic of a strong UPI PIN? a) Easy to guess b) Short and simple c) Contains a combination of numbers, letters, and special characters d) Matches your phone number	<input type="checkbox"/>
4.	How can you verify the authenticity of a UPI transaction request? a) By ignoring it b) By blindly accepting it c) By verifying the sender's details and transaction amount d) By sharing your UPI PIN with the sender	<input type="checkbox"/>
5.	How should you set up your UPI PIN? a) Choose a PIN that is easy to guess b) Use your birthdate or anniversary as your PIN c) Select a strong, unique PIN that is not easily predictable d) Keep changing your PIN every month	<input type="checkbox"/>
6.	What is mobile banking? a) Banking conducted in a moving vehicle b) Banking conducted via mobile devices c) Banking conducted only during daytime d) Banking conducted using landline phones	<input type="checkbox"/>
7.	Which of the following is a key advantage of digital payments with internet banking? a) Limited transaction options b) Inconvenience c) Lower risk of loss or theft d) High transaction fees	<input type="checkbox"/>



8.	What is the term used for the unique code generated by a token device for authentication in internet banking? a) PIN b) CVV c) TAN d) OTP	<input type="checkbox"/>
9.	What is the most commonly used authentication method for online credit card transactions? a) PIN b) Fingerprint c) Signature d) CVV	<input type="checkbox"/>
10.	Which technology is commonly used to secure credit card transactions online? a) Block chain b) Encryption c) Biometrics d) QR codes	<input type="checkbox"/>
11.	What challenge does E-Banking face in India? a) Limited access to smartphones b) Lack of customer support c) Inadequate legal framework for online transactions d) Low internet penetration in remote areas	<input type="checkbox"/>
12.	What is one of the disadvantages of E-Banking in India? a) Limited transaction options b) Higher security risks c) Decreased accessibility d) Slow processing times	<input type="checkbox"/>
13.	Which regulatory body oversees E-Banking operations in India? a) RBI (Reserve Bank of India) b) SEBI (Securities and Exchange Board of India) c) IRDAI (Insurance Regulatory and Development Authority of India) d) NABARD (National Bank for Agriculture and Rural Development)	<input type="checkbox"/>
14.	How does E-Banking contribute to the growth of the Indian economy? a) By limiting financial access b) By promoting inefficiency c) By enhancing financial services reach d) By increasing manual processes	<input type="checkbox"/>
15.	Which banking system allows for instant fund transfers between accounts? a) E-Banking b) Traditional Banking c) Mobile Banking d) None of the above	<input type="checkbox"/>
16.	Which initiative was launched by the Indian government to promote cashless transactions and E-Banking? a) PMJDY (Pradhan Mantri Jan-Dhan Yojana) b) MUDRA (Micro Units Development and Refinance Agency) c) UPI (Unified Payments Interface) d) BHIM (Bharat Interface for Money)	<input type="checkbox"/>
17.	What does E-Banking stand for? a) Electronic Banking b) Efficient Banking c) Enhanced Banking d) Eco-friendly Banking	<input type="checkbox"/>
18.	E-Banking channel allows customers to perform transactions through their smartphones? a) Internet Banking b) Mobile Banking c) ATM Banking d) Telebanking	<input type="checkbox"/>



19.	What technology is primarily used in E-Banking transactions? a) Blockchain b) Artificial Intelligence c) Internet Protocol d) Secure Sockets Layer (SSL)	<input type="checkbox"/>
20.	Which of the following is a potential risk associated with E-Banking? a) Increased convenience b) Enhanced security c) Online fraud d) Reduced transaction time	<input type="checkbox"/>
21.	Which device is commonly used for accessing E-Banking services? a) Microwave b) Television c) Computer d) Fridge	<input type="checkbox"/>
22.	Which precaution should you take when using digital wallets for transactions? a) Keep a large amount of money in the wallet b) Share wallet credentials with friends c) Use strong authentication methods like biometrics d) Disable security features for convenience	<input type="checkbox"/>
23.	Which NPCI system facilitates paperless credit transfers among banks? a) UPI (Unified Payments Interface) b) IMPS (Immediate Payment Service) c) NEFT (National Electronic Funds Transfer) d) NACH (National Automated Clearing House)	<input type="checkbox"/>
24.	Which international card scheme does NPCI collaborate with for global acceptance of RuPay cards? a) Mastercard b) American Express c) Visa d) Discover	<input type="checkbox"/>
25.	What is the maximum transaction limit for NEFT payments? a) No limit b) ₹1 lakh c) ₹2 lakhs d) ₹5 lakhs	<input type="checkbox"/>



