

**RAN-2411000903022002 - F****S.Y.B.C.A. (Sem. - III ) Examination December - 2025****Major - 2 : Object Oriented Programming And Data Structures (PR)****सूचना : / Instructions**

- (1) उपरोक्त दशविले विगतो उत्तरवही पर अवश्य लभवी.  
Fill up strictly the above details on your answer book.

Seat No.:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
----------------------	----------------------	----------------------	----------------------	----------------------	----------------------

Student's Signature

- Q. 1.** Write a menu driven program to perform the following stack operation. **(20)**
- 1) Push
  - 2) Pop
  - 3) Peep.
- Q. 2.** Viva +Journal **(05)**



## RAN-2411000903033002 - E

S.Y.B.C.A. (NEP) (Sem. - III) Examination December - 2025

305-1 :Web Designing - I (PR)

Time: 2 Hours ]

[ Total Marks: 25

<p><b>सूचना : / Instructions</b></p> <p>(1) उपरोक्त दशविव विगतो उत्तरवही पर अवश्य लभवी. Fill up strictly the above details on your answer book.</p> <p>(2) Take proper assumptions as a when require.</p> <p>(3) Figures to the right indicate full marks.</p>	<p>Seat No.:</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p style="text-align: center;">Student's Signature</p> </div>						

**Q. 1.** Design a website in HTML on "Shaadi Planner". (20)

- a. Display the services and types of events planned by "Shaadi Planner" company.
- b. Create a user registration page that includes Name, Address, Email, Contact\_No, Age, Location of Wedding, etc. Use checkboxes for selecting services required by user for Wedding. (Facilities can be -"Lighting", "Decoration", "Event Management", "Clothing", etc).
- c. Perform the following validations on registration page:
  - i. Check if Name and Contact No is entered or not. If not, Display proper message,
  - ii. Check if Mobile No has only Digits. If not, Display Message "Please Enter only Digits".

**Note the following:**

- A) Implement validations using Javascript.
- B) Also use bootstrap and CSS.

**Q. 2.** VIVA (05)



## RAN-2411000903033002 - F

S.Y.B.C.A. (NEP) (Sem. - III) Examination December - 2025

305-1 : Web Designing - I (Practical)

Time: 2 Hours ]

[ Total Marks: 25

<p><b>सूचना : / Instructions</b></p> <p>(1) उपरोक्त दृशविव विगतो उत्तरवही पर अवश्य लभवी. Fill up strictly the above details on your answer book.</p> <p>(2) Take proper assumptions as a when require.</p> <p>(3) Figures to the right indicate full marks.</p>	<p>Seat No.:</p> <table border="1"> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p style="text-align: center;">Student's Signature</p> </div>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		

- Q. 1. Create any Educational Website with following two Pages: (10)**
- 1) Design "Home Page" for a college with:
    - Heading: "ABC College"
    - A Table which is showing 3 different courses with duration & fees.
    - Put any two images (preferably related to Education/College).
    - Link to "Admission Form".
    - Use CSS for font, table borders, and background.
  - 2) Create an Admission Form with following fields:
    - Name, Email, Mobile Number
    - Course Selection (dropdown)
    - Gender (radio buttons)
    - Submit & Reset buttons
- Q. 2. Write a Javascript code to validate that the mobile number entered has 10 digits and email-id must have @ sign. (10)**
- Q. 3. VIVA (05)**



## RAN-2411000903011002 - E

B.C.A. (Sem. - III) Examination December - 2025

303 : Database Handling Using Python (PR) (Practical)

[ Total Marks: 25

<p><b>सूचना : / Instructions</b></p> <p>(1) उपरोक्त दशविव विगतो उत्तरवली पर अवश्य लभवी. Fill up strictly the above details on your answer book.</p> <p>(2) Sketch neat and labelled diagram wherever necessary.</p> <p>(3) Figures to the right indicate full marks of the question.</p> <p>(4) All questions are compulsory</p>	<p>Seat No.:</p> <table border="1"> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Student's Signature</p> </div>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		

- Q. 1.** Write a python code to implement following operation on Employee table using SQLite module. [10]  
Employee (emp\_id, emp\_name, contact\_no, department\_name, DOJ)
- A. Insert 10 records.  
B. Display all records using cursor.
- Q. 2.** Write a menu driven python script perform following task [10]
- 1) Display the details of sales department.
  - 2) Display details of employee working with emp\_id is105.
- Q. 3.** Viva [05]



**RAN-2411000903011002 - F**  
**B.C.A. (Sem. - III) Examination December - 2025**  
**303 : Database Handling Using Python (PR) (Practical)**

Time: 2 Hours ]

[ Total Marks: 25

**सूचना : / Instructions**

- (1) उपरोक्त दशविल विगतो उत्तरवली पर अवश्य लभवी.  
Fill up strictly the above details on your answer book.
- (2) Figures to the right indicate full marks of the question.
- (3) All questions are compulsory

Seat No.:

--	--	--	--	--	--

Student's Signature

- Q. 1.** Consider a "product.csv" file columns pid, pname, category, price. [10]
1. Using writer object, write 5 records in product.csv.
  2. Read data using reader object.
  3. Insert all record into SQLite table "Product" using cursor object.
  4. Using cursor, display all record where price > 70.
- Q. 2.** Create a text file data.txt and perform the following tasks: [10]
1. Write few lines into the file.
  2. Read the file.
  3. Count the total number of lines.
  4. Display the first line of the file..
- Q. 3.** Viva-voce [05]



## RAN-2411000903033001

S.Y.BCA (NCF-NEP) (Sem.-III) Examination November - 2025

Major-3-305-Web Designing-I

Time: 1 Hour ]

[ Total Marks: 25

<p><b>सूचना : / Instructions</b></p> <p>(1) उपरोक्त दशविव विगतो उत्तरवही पर अवश्य लभवी. Fill up strictly the above details on your answer book</p>	<p>Seat No.:</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Student's Signature</p> </div>						

**Q.1. A. Answer The Following (Any Four)**

04

- 1) CSS stands for \_\_\_\_\_
 

A) Compare Style Sheet	C) Cascading Style Sheet
B) Cascaded Style Sheet	D) All of the These
- 2) Which bootstrap class is used to create a green background in a table row?
 

A) table-success	C) table-primary
B) table-green	D) table-warning
- 3) Which of the following is not JavaScript data types?
 

A) Null type	C) Number type
B) Undefined Types	D) All of the mentioned
- 4) Which of the following operator is used to check both the value and type of a variable in JavaScript?
 

A) ==	C) ===
B) !=	D) !==
- 5) What will be the length of following string?  
Let myString = "Hello, World!"
 

A) 11	C) 13
B) 12	D) 14

**Q.1. B. Answer in one word (any Four)**

04

1. How can we add comments in CSS?
2. What is the purpose of "container" in Bootstrap grid system?
3. Which class is used to create a button in Bootstrap?
4. What is the return-value difference between x++ and ++x?
5. Which functions are used to extract a part of string in JavaScript?

**Q.2. Attempt the Following**

- A. What is CSS? What are the advantages and limitations of CSS?

05

OR

A. What are the three different types of form layout in bootstrap? How will you create a form group in bootstrap? 05

B. Explain different types of dialogue boxes in JavaScript in detail. 04

**Q.3. Answer the following questions (Any Two)** 08

A. Write the outcome of following JavaScript string functions.

1. JavaScript.lastIndexOf('a')
2. Hello.replace('l', 'r')
3. Hello.concat('world')
4. JavaScript.slice(4,10)

B. Explain Date Object with its methods.

C. Explain Audio and Video tag with an example.

Time: 1 Hour |

[ Total Marks: 25

<p><b>सूचना : / Instructions</b></p> <p>(1) उपरोक्त दशविल विगतो उत्तरवही पर अवश्य लખवी. Fill up strictly the above details on your answer book</p> <p>(2) All questions are compulsory.</p> <p>(3) Figure to the right indicate full marks.</p> <p>(4) Mention your options clearly.</p>	<p>Seat No.:</p> <table style="width: 100%; border: 1px solid black;"> <tr> <td style="width: 20px; height: 20px; border: 1px solid black;"></td> <td style="width: 20px; height: 20px; border: 1px solid black;"></td> <td style="width: 20px; height: 20px; border: 1px solid black;"></td> <td style="width: 20px; height: 20px; border: 1px solid black;"></td> <td style="width: 20px; height: 20px; border: 1px solid black;"></td> <td style="width: 20px; height: 20px; border: 1px solid black;"></td> </tr> </table> <div style="border: 1px solid black; height: 80px; margin-top: 10px; display: flex; align-items: center; justify-content: center;"> <p>Student's Signature</p> </div>						

**Q.1. A. Answer the following (any 4)**

4

1. Which of the following is not a built-in data type
  - a. int
  - b. char
  - c. enum
  - d. void
2. One base class may be inherited by more than one child class is called
  - a. Single Inheritance
  - b. Multiple Inheritance
  - c. Multilevel Inheritance
  - d. Hierarchical Inheritance
3. A function with the same name and same signature in both the base class and derived class is known as:
  - a. Overloading
  - b. Overriding
  - c. Friend
  - d. Null
4. A sub class of linear data structure in which elements can be inserted or deleted from only one end is called :
  - a. Stack
  - b. FIFO List
  - c. Push-Down list
  - d. all
5. If F= R in a circular queue, how many elements are there in the queue?
  - a. only 1
  - b. 0
  - c. 2
  - d. 3

**Q.1. B. Answer the following in short (any 4)**

4

1. List various library header files required for C++.
2. Which access specifier is used when members need to be inherited but not publicly accessible?
3. What is a friend function in C++?
4. Convert expression  $A*B+C/D$  into postfix.
5. What is the overflow condition of queue?

**Q.2. A. Write an algorithm to insert an element into circular queue.**

5

**OR**

Write an algorithm to delete an element from circular queue.

**Q.2. B.** Explain virtual function and pure virtual function

**4**

**Q.3. Answer the following (any 2)**

**8**

1. Explain class and object with an example.
  2. Explain conversion from infix to postfix expression
  3. Explain Multiple-inheritance with example
-



# RAN-2411000903040001

S.Y.BCA (NCF-NEP) (Sem.-III) Examination November - 2025

MDC-302-Statistical Methods and Data Analysis

Time: 2 Hours ]

[ Total Marks: 50

<p><b>सूचना : / Instructions</b></p> <p>(1) उपरोक्त दशविल विगतो उत्तरवही पर अवश्य लખवी. Fill up strictly the above details on your answer book</p>	<p>Seat No.:</p> <table border="1"> <tr> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> <td><input type="text"/></td> </tr> </table> <div style="border: 1px solid black; height: 80px; width: 100%; margin-top: 10px;"></div> <p style="text-align: center;">Student's Signature</p>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		

**Q.1. A. Answer Following (Any Five)**

5

1. What is the probability of an event that is certain to happen?
 

A) 0	B) 0.5
C) 1	D) 2
2. Standard deviation is defined as:
 

A) Square root of variance
B) Average of deviations from mean
C) Sum of squared deviations
D) Ratio of variance and mean
3. Which function in R is used to read data from a CSV file?
 

A) read.csv()	B) load.csv()
C) Import.csv()	D) fetch.csv()
4. What will the following R code return?  
X<-10, print(class(X))
 

A) "Integer"	B) "Character"
C) "Numeric"	D) "logical"
5. What is the extension of R script file programming?
 

A) .RP	B) .R
C) .RPY	D) .txt
6. Which function is used to create a data frame in R?
 

A) make.dataframe()	B) df.create()
C) build.df()	D) data.frame()

**B. Answer Following in one or two lines (Any Five)**

5

1. What is list?
2. Write syntax for conditional statement in R.
3. What is sample?
4. How to create matrix in R?
5. How to combine two data frames vertically in R?
6. What is range?

**Q.2. A. Answer the Following:**

10

1. Calculate mean of following data:

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No of Students	10	15	25	25	10	10	5

2. What are histograms, and how are they used to represent data?

**OR**

1. What is Mean in statistics? Explain the types of Mean in detail.  
2. How to use cut() function? Explain with example.

**B. Answer the Following:**

6

1. Calculate mean of following data.

Class	10	20	30	40	50	60	70
Frequency	3	5	8	12	8	8	6

2. Explain concept of random sampling and its importance.

**OR**

1. Calculate the Range and coefficient of range:  
Dataset: 12, 25, 18, 30, 22  
2. What are variables in statistics? Give difference between categorical and numerical variables.

**Q.3. A. Answer the Following:**

10

1. Explain various methods of subsetting in R.  
2. How to import CSV file into R explain with example.

**OR**

1. How R is useful in Data Analytics?  
2. Describe subset function with proper syntax and example.

**B. Answer the Following:**

6

1. What is data cleaning? Explain characteristics of clean data.  
2. How can you create data frame in R? Explain with example.

**OR**

1. Explain order() function in R.  
2. What is Missing data? How to visualization of missing values of a dataset.

**Q.4. A. What is Filtering? Explain in R.**

5

**OR**

- A. How to make data type conversion in R.

- B. How to reshaping of data frame in R.

3

**OR**

- B. Explain combining data frames using cbind() and rbind() in R.

**7. Lenskart is often cited as a:**

- a) EdTech startup
- b) FinTech startup
- c) Omni-channel startup
- d) AgriTech startup

**8. The primary aim of SSIP (Student Startup & Innovation Policy) is to:**

- a) Provide loans for established businesses
- b) Support student innovations and ideas with grants and mentorship
- c) Attract foreign companies to Gujarat
- d) Provide tax benefits to unicorn startups

**9. boAt is most popular among:**

- a) Senior citizens
- b) School children
- c) College youth and young professionals
- d) Farmers

**10. Who among the following is a co-founder of Zomato?**

- a) Bhavish Aggarwal
- b) Deepinder Goyal
- c) Peyush Bansal
- d) Falguni Nayar

**Q.2** Discuss in detail any one innovative start-up idea of your choice. Clearly explain the concept, the consumer problem it aims to solve, and how that start-up provides a unique solution compared to existing options in the market. **15**

**OR**

**A. Answer any 3 of the following:**

**9**

1. What is a start-up? Explain its main characteristics with examples.
2. Describe different sources of funding available for start-ups.
3. Explain the importance of innovation in the growth of start-ups.
4. What are incubators and accelerators? How do they help start-ups?
5. Discuss the concept of Unicorn start-ups with suitable examples.
6. What are common reasons for the failure of start-ups?

**B. Match the following:**

**6**

- |             |  |
|-------------|--|
| 1. boAt     | a) Online food delivery                    |
| 2. Zomato   | b) Cab and hotel booking                   |
| 3. OYO      | c) Audio devices and wearables             |
| 4. Paytm    | d) Beauty and cosmetics                    |
| 5. Lenskart | e) Digital payments and financial services |
| 6. Nykaa    | f) Eyewear (glasses, lenses)               |

**UNIVERSITY EXAMINATION: 2025-26**  
**BACHELOR OF COMPUTER APPLICATION (SEM.-3)**  
**SUBJECT: INFORMATION PROTECTION USING CYBER SECURITY (LEVEL-1)**

**Question Set 1**

**TIME: 1 HOUR**

**TOTAL MARKS: 25**

- (1) **Which among the below is not a correct example of multi-factor authentication?**  
Options (1) Entering PIN for a card transaction while withdrawing money at ATM (2) Password + SMS OTP (3) Password + PIN (4) Password + Face recognition
- (2) **In which of the following attack many attackers attack on victim?**  
Options (1) Trojan (2) DoS (3) DDoS (4) Trojan Horse
- (3) **What is the full form of DDoS in Cyber Security?**  
Options (1) Distributed Danger-of-Service (2) Denial Distributed-of-Service (3) Distributed Denial-of-Service (4) Danger Denial-of-Services
- (4) **If you receive a suspicious email, should you?**  
Options (1) Reply to it (2) Open the attachments (3) Click the links (4) Report it to the phishing reporting mailbox of your government
- (5) **What is the term for the practice of enticing employees to reveal sensitive information?**  
Options (1) Hacking (2) Insider Threat (3) Social Engineering (4) Encryption
- (6) **What type of malware disguises itself as legitimate software?**  
Options (1) Virus (2) Worm (3) Trojan (4) Spyware
- (7) **What is full form of CIA in Cyber Security?**  
Options (1) Center, Integrity, and Availability (2) Confidentiality, Integrity, and Average (3) Confidentiality, Information, and Availability (4) Confidentiality, Integrity, and Availability
- (8) **What is the primary purpose of a firewall in network security?**  
Options (1) To encrypt data (2) To detect malware (3) To prevent unauthorized access (4) To monitor network traffic
- (9) **Full form of TCP/IP?**  
Options (1) Transmission Control Protocol/ Internet Protocol (2) Transmission Control Product/ Internet Protocol (3) Transaction Control Protocol/ Information Protocol (4) Transport Contribution Protocol/ Internet Performance
- (10) **The process of verifying a claimed identity of a user, device, or other entity in a computer system is known as \_\_\_\_\_**  
Options (1) Authentication (2) Authorization (3) Right (4) None of the Mentioned
- (11) **What does “VPN” stand for in the context of cybersecurity?**  
Options (1) Virtual Personal Network (2) Very Private Network (3) Virtual Public Network (4) Virtual Private Network
- (12) **Which of the following is NOT a common encryption algorithm?**  
Options (1) AES (2) SSL (3) RSA (4) DES
- (13) **\_\_\_\_\_ technology is used for analyzing and monitoring traffic in network and information flow.**  
Options (1) Managed detection and response (MDR) (2) Cloud access security brokers (CASBs) (3) Network traffic analysis (NTA) (4) Network Security Firewall
- (14) **Which protocol is commonly used for secure communication over the internet?**  
Options (1) HTTPS (2) FTP (3) SMTP (4) HTTP
- (15) **Firewall, IDS and VPN are examples of \_\_\_\_\_ security**  
Options (1) Personal (2) Network (3) Software (4) None of the Mentioned
- (16) **Which of the following technical aspect is not recommended for online payment/money transfer transaction?**  
Options (1) Private Network (2) Private Computer (3) Public Wi-Fi (4) All of the Mentioned

UNIVERSITY EXAMINATION: 2025-26  
BACHELOR OF COMPUTER APPLICATION (SEM.-3)  
SUBJECT: INFORMATION PROTECTION USING CYBER SECURITY (LEVEL-1)

Question Set 1

TIME: 1 HOUR

TOTAL MARKS: 25

**(17) What is full form of OSI?**

Options (1) Open Systems Interconnection (2) Open Systems Interface (3) Open Systems Internet (4) Open Systems Information

**(18) What is the full form of DoS in Cyber Security?**

Options (1) Dark-of-Service (2) Distributed-of-Service (3) Denial-of-Service (4) Danger -of-Services

**(19) \_\_\_\_ is a software vulnerability discovered by attackers before the vendor has become aware of it**

Options (1) One-day vulnerability (2) Zero-day vulnerability (3) All-day vulnerability (4) Same-day vulnerability

**(20) \_\_\_\_ attacks are the practice of sending fraudulent communications that appear to come from a reputable source**

Options (1) Phishing (2) Spamming (3) Spoofing (4) Bombing

**(21) Which cybersecurity concept involves making data unreadable without the proper decryption key?**

Options (1) Authentication (2) Encryption (3) Authorization (4) Intrusion Detection

**(22) Which of the following is one of the way to avoid CSRF attack?**

Options (1) Secret cookie (2) accept exe (3) allow permission (4) All of the Mentioned

**(23) Activate \_\_\_\_\_ when you're required it to use, otherwise turn it off for security purpose.**

Options (1) Flash Light (2) Bluetooth (3) App updates (4) Rotation

**(24) What is the primary purpose of a CAPTCHA in online security?**

Options (1) To prevent unauthorized access to a website (2) To verify that a user is human and not a bot (3) To encrypt user data (4) To generate strong passwords

**(25) \_\_\_\_ area units are utilized in respect of knowledge security that permits the safety of an automatic data system**

Options (1) SingUp and Authorization (2) Authentication and Login (3) Authentication and Authorization (4) Login and LogOut

# UDHNA COLLEGE

## CC - INTRODUCTION TO ARTIFICIAL INTELLIGENCE UNIVERSITY EXAMINATION Question paper

### Question Set 1

Class Group: BCA Semester - III

#### Subject: Introduction to AI

(1) The component of an Expert system is \_\_\_\_\_.

Options (1) Knowledge Base (2) Inference Engine (3) User Interface (4) All of the above

(2) Which of the following is the branch of Artificial Intelligence?

Options (1) Machine Learning (2) Cyber forensics (3) Full-Stack Developer (4) Network Design

(3) A.M. Turing developed a technique for determining whether a computer could or could not demonstrate the artificial Intelligence, Presently, this technique is called \_\_\_\_\_

Options (1) Logarithm (2) Algorithm (3) Boolean Algebra (4) Turing Test

(4) Which algorithm is used in the Game tree to make decisions of Win/Lose?

Options (1) Heuristic Search Algorithm (2) DFS/BFS algorithm (3) Greedy Search Algorithm (4) Min/Max algorithm

(5) In artificial Intelligence, knowledge can be represented as \_\_\_\_\_.

Options (1) Predicate Logic and Propositional Logic (2) Compound Logic (3) Machine Logic (4) all of the mentioned

(6) What is used in determining the nature of the learning problem?

Options (1) Environment (2) Feedback (3) Problem (4) None of the Mentioned

(7) Which algorithm is used to solve any kind of problem?

Options (1) Breadth-first algorithm (2) Tree algorithm (3) Bidirectional search algorithm (4) Graph Directional

(8) Which search strategy is also called as blind search?

Options (1) Uninformed search (2) Informed search (3) Simple reflex search (4) None of the Mentioned

(9) Which of the following is not a type of Artificial Intelligence agent?

Options (1) Learning AI agent (2) Goal-based AI agent (3) Simple reflex AI agent (4) Unity-based AI agent

(10) Who is the inventor of Artificial Intelligence?

Options (1) Geoffrey Hinton (2) Andrew Ng (3) John McCarthy (4) Jürgen Schmidhuber

(11) An Algorithm is said as Complete algorithm if \_\_\_\_\_

Options (1) It ends with a solution (2) It begins with a solution. (3) It does not end with a solution. (4) It contains a loop

(12) What is Artificial Intelligence?

Options (1) Artificial Intelligence is a field that aims to make humans more intelligent (2) Artificial Intelligence is a field that aims to improve the security (3) Artificial Intelligence is a field that aims to develop intelligent machines (4) Artificial Intelligence is a field that aims to mine the data

(13) A process that is repeated, evaluated, and refined is called \_\_\_\_\_

Options (1) diagnostic (2) descriptive (3) interpretive (4) iterative

(14) What is the function of an Artificial Intelligence "Agent"?

Options (1) Mapping of goal sequence to an action (2) Work without the direct interference of the people (3) Mapping of precept sequence to an action (4) Mapping of environment sequence to an action

(15) Full form of BFS

Options (1) Best Full Search (2) Breadth First Search (3) Best Fine Search (4) Best Fill Search

(16) Which search method takes less memory?

Options (1) Depth-First Search (2) Breadth-First search (3) Optimal search (4) Linear Search

# UDHNA COLLEGE

## CC - INTRODUCTION TO ARTIFICIAL INTELLIGENCE UNIVERSITY EXAMINATION Question paper

### Question Set 1

Class Group: BCA Semester - III

**(17) What will happen if a predecessor description is generated that is satisfied by the initial state of the planning problem?**

Options (1) Success (2) Error (3) Compilation (4) Termination

**(18) How many types of informed search method are in artificial intelligence?**

Options (1) 1 (2) 2 (3) 3 (4) 4

**(19) Which of the given language is not commonly used for AI?**

Options (1) LISP (2) PROLOG (3) Python (4) Perl

**(20) Full form of AI**

Options (1) Artificial Interaction (2) Artificial Intermediate (3) Artificial Intelligence (4) Intelligence Artificial

**(21) Which function will select the lowest expansion node at first for evaluation?**

Options (1) Greedy best-first search (2) Best-first search (3) Depth-first search (4) None of the mentioned

**(22) Which search algorithm imposes a fixed depth limit on nodes?**

Options (1) Depth-limited search (2) Iterative deepening search (3) Depth-first search (4) Bidirectional search

**(23) Which search uses the problem specific knowledge beyond the definition of the problem?**

Options (1) Informed search (2) Depth-first search (3) Breadth-first search (4) Uninformed search

**(24) Graphic interfaces were first used in a Xerox product called \_\_\_\_\_**

Options (1) InterLISP (2) Ethernet (3) Smalltalk (4) ZetaLISP

**(25) Which algorithm takes two sentences as input and returns a Unifier?**

Options (1) Inference (2) Hill-Climbing (3) Unify algorithm (4) Depth-first search

**UNIVERSITY EXAMINATION:2025-26**  
**BACHELOR OF COMPUTER APPLICATION (SEM-3)**  
**SUBJECT: SEC-FUNDAMENTALS OF MOBILE APPLICATION DEVELOPMENT**

**Question Set 1**

**TIME: 1 HOUR**

**TOTAL MARKS:25**

**(1) Which of the following is not part of the JDK?**

Options (1) javac (2) java (3) javadoc (4) Notepad

**(2) Which constructor is invoked when no arguments are passed during object creation?**

Options (1) Default constructor (2) Parameterized constructor (3) Static constructor (4) Abstract constructor

**(3) How many constructors can a class have in Java?**

Options (1) Only one (2) Two (3) As many as needed (Overloading is allowed) (4) None

**(4) Which of the following is true about the super keyword?**

Options (1) It refers to the current object (2) It refers to the subclass (3) It refers to the superclass (4) It is used to implement interfaces

**(5) Which of the following is not a pillar of OOP?**

Options (1) Inheritance (2) Polymorphism (3) Abstraction (4) Compilation

**(6) What is the first version of Android released for commercial use?**

Options (1) Android 0.9 (2) Android 1.0 (3) Android 1.1 (4) Android Cupcake

**(7) Which method is used to check if a CheckBox is selected?**

Options (1) isSelected() (2) isChecked() (3) isClicked() (4) isToggled()

**(8) What is the purpose of a TableLayout in Android?**

Options (1) To stack views on top of each other (2) To place views in a grid-like table format (3) To scroll views vertically (4) To group buttons horizontally

**(9) Which class is used to build an AlertDialog?**

Options (1) DialogBuilder (2) AlertBuilder (3) AlertDialog.Builder (4) Dialog.Alert

**(10) What is a class in Java?**

Options (1) A blueprint to create objects (2) A real-world entity (3) A type of method (4) A variable container

**(11) Android is based on which operating system?**

Options (1) Unix (2) Linux (3) Windows (4) iOS

**(12) Which tool is used to compile Java source files?**

Options (1) java (2) javac (3) javadoc (4) jar

**(13) What is the correct syntax to create an explicit intent?**

Options (1) new Intent(actionName); (2) new Intent(this, TargetActivity.class); (3) Intent.from(this).start(TargetActivity.class); (4) Intent(TargetActivity);

**(14) What is ListView in Android used for?**

Options (1) To show web content (2) To display a list of scrollable items (3) To show notifications (4) To play audio

**(15) Which view is used to display text in Android?**

Options (1) Button (2) TextView (3) EditText (4) Label

**UNIVERSITY EXAMINATION:2025-26**  
**BACHELOR OF COMPUTER APPLICATION (SEM-3)**  
**SUBJECT: SEC-FUNDAMENTALS OF MOBILE APPLICATION DEVELOPMENT**

**Question Set 1**

**TIME: 1 HOUR**

**TOTAL MARKS:25**

**(16) What does JVM stand for?**

Options (1) Java Variable Machine (2) Java Virtual Machine (3) Java Visual Machine (4) Java Verified Module

**(17) Which method is used to launch an activity using an Intent?**

Options (1) startActivity(intent); (2) callActivity(intent); (3) launchActivity(intent); (4) newActivity(intent);

**(18) What attribute defines the direction of a LinearLayout?**

Options (1) layout\_gravity (2) orientation (3) layout\_align (4) layout\_position

**(19) Which method is used to respond to item clicks in ListView?**

Options (1) setOnItemClickListener() (2) setOnClickListener() (3) onClickItem() (4) setClickListener()

**(20) What is AlertDialog used for in Android?**

Options (1) Showing a map (2) Displaying a dialog box with a message and buttons (3) Playing music (4) Opening a camera

**(21) In LinearLayout, what values can android:orientation have?**

Options (1) start, end (2) horizontal, vertical (3) top, bottom (4) left, right

**(22) Which of the following is a valid use of the import keyword?**

Options (1) import java.util.Scanner; (2) import Scanner from java.util; (3) import package.java.util.Scanner; (4) include java.util.Scanner;

**(23) Which method is used to display a Toast?**

Options (1) Toast.message() (2) Toast.view() (3) Toast.show() (4) Toast.print()

**(24) What is the purpose of a TableLayout in Android?**

Options (1) To stack views on top of each other (2) To place views in a grid-like table format (3) To scroll views vertically (4) To group buttons horizontally

**(25) What is the default state of a CheckBox or RadioButton when created?**

Options (1) Checked (2) Disabled (3) Unchecked (4) Focused