

**S. S. JAIN SUBODH P.G.(AUTONOMOUS) COLLEGE, JAIPUR**

Affiliated to University of Rajasthan, Jaipur

**I CIA BCA VI Semester Test, May – 2022**

**Artificial Intelligence & Expert Systems**

**Max. Marks: 30**

**Duration: 1 Hour**

---

**Instructions to the Candidates**

Note:- **Section A** : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two ( $7.5 \times 2 = 15$  marks)

**Section B** : Consists of one descriptive question of 15 marks with an internal choice.

---

**Section A**

- 1) What is Artificial Intelligence?
- 2) Explain production characteristics.
- 3) Differentiate between Breadth First Search and Depth First Search.

**Section B**

- 4) Explain the various application areas of Artificial Intelligence.

**OR**

What do you mean by State Space Search Technique? Solve the water jug problem by using this technique.

**S. S. JAIN SUBODH P.G.(AUTONOMOUS) COLLEGE, JAIPUR**  
Affiliated to University of Rajasthan, Jaipur  
**I CIA BCA VI Semester Test, May - 2022**  
**Data Warehousing and Data Mining**

**Max. Marks: 30**

**Duration: 1 Hour**

---

**Instructions to the Candidates**

Note:- **Section A** : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two ( $7.5 \times 2 = 15$  marks)

**Section B** : Consists of one descriptive question of 15 marks with an internal choice.

---

**Section A**

*Archite*

1. Define Data Warehousing? Describe its components.
2. Describe the types of Data Warehouse.
3. Describe Data Warehousing Designing Approaches.

**Section B**

4. Explain delivery method of Data Warehousing.

**OR**

Describe Data Warehousing planning stages.

*Ans*



**S. S. JAIN SUBODH P.G.(AUTONOMOUS) COLLEGE, JAIPUR**

Affiliated to University of Rajasthan, Jaipur

**I CIA BCA VI Semester Test, May – 2022**

**Management Information System**

**Max. Marks: 30**

**Duration: 1 Hour**

---

**Instructions to the Candidates**

Note:- **Section A** : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two ( $7.5 \times 2 = 15$  marks)

**Section B** : Consists of one descriptive question of 15 marks with an internal choice.

---

**Section A**

- (1) What is a System? Explain all the components of a system.
- (2) Explain different types of Systems.
- (3) What is the role of Information System in decision making?

**Section B**

- (4) Explain different types of Information System.

**OR**

What are the characteristics of Information? Explain different types of Informations.

**S. S. JAIN SUBODH P.G.(AUTONOMOUS) COLLEGE, JAIPUR**

Affiliated to University of Rajasthan, Jaipur

**I CIA BCA VI Semester Test, May – 2022**

**Network Security & Cryptology**

**Max. Marks: 30**

**Duration: 1 Hour**

---

**Instructions to the Candidates**

**Note:-Section A** : Consists of three short answer type questions, each carrying 7.5 marks. The candidates are required to attempt any two ( $7.5 \times 2 = 15$  marks)

**Section B** : Consists of one descriptive question of 15 marks with an internal choice.

---

**Section A**

- (4) Describe Symmetric Cipher Model in brief.
- (5) What is Cryptanalysis? Explain its types.
- (6) Describe Security Attack and its types.

**Section B**

- (4) Explain Model for Network Security with a neat diagram.

**OR**

Describe Asymmetric Cipher model in detail.