

Roll No : .....

Total No. of Questions : 11 ]

[ Total No. of Printed Pages : 3

# SP-730

## M.Sc. (Final) Examination, 2021 INFORMATION TECHNOLOGY

Paper -MIT-206(B)

(Data Warehousing and Data Mining)

Time : 1½ Hours ]

[ Maximum Marks : 50

### Section-A

(Marks : 2 × 10 = 20)

**Note :-** Answer all *ten* questions (Answer limit 50 words). Each question carries 2 marks.

(खण्ड-अ)

(अंक : 2 × 10 = 20)

**नोट :-** सभी दस प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 50 शब्द)। प्रत्येक प्रश्न 2 अंक का है।

### Section-B

(Marks : 3 × 5 = 15)

**Note :-** Answer all *five* questions. Each question has internal choice (Answer limit 200 words). Each question carries 3 marks.

(खण्ड-ब)

(अंक : 3 × 5 = 15)

**नोट :-** सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन कीजिए (उत्तर-सीमा 200 शब्द)। प्रत्येक प्रश्न 3 अंक का है।

### Section-C

(Marks : 5 × 3 = 15)

**Note :-** Answer any *three* questions out of five (Answer limit 500 words). Each question carries 5 marks.

(खण्ड-स)

(अंक : 5 × 3 = 15)

**नोट :-** पाँच में से किन्हीं तीन प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 500 शब्द)। प्रत्येक प्रश्न 5 अंक का है।

**BI-461**

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**SP-730** P.T.O.

**Section–A**

2 each

1. (i) What is Data warehousing ?
- (ii) Define Query Manager.
- (iii) What is Dimension table ?
- (iv) What is OLAP ?
- (v) Define Data Mart.
- (vi) Define Data Warehouse architecture.
- (vii) Define Aggregation.
- (viii) What is ETL ?
- (ix) What do you understand by Data Mining ?
- (x) What is Decision Tree ?

**Section–B**

3 each

2. What are the stages of building a Data Warehouse ?

*Or*

Explain three types of Process Manager.

3. Explain Starflake schema.

*Or*

Explain data transformation in detail.

4. Discuss backup techniques for data warehouse.

*Or*

Explain parallel technology in data warehouse.

5. How many ways are there for testing the database ? Explain it.

*Or*

Discuss Data Load Tuning.

6. Give in detail about the data mining techniques.

*Or*

Discuss data mining in the area of wireless communication corporation.

**Section–C**

5 each

7. Explain ETL process in data warehouse.
8. Explain the various schemas of a Data Warehouse.
9. Explain Network and Client hardware of Data Warehouse.
10. List out the OLAP operations and explain the some with an example.
11. Describe Business Technical and Social context for data mining.