

**SECTION – A**

1. Write short notes on the following : 8 × 2 = 16

- (a) Standard deviation
- (b) Central Tendency
- (c) Multiple regression
- (d) Partial correlation coefficient
- (e) Least square method
- (f) Construction of index number
- (g) Business Analytics
- (h) Chi-square test

**SECTION – B**

**UNIT – I**

- 2. Define statistics in detail. Explain the role and applications of business statistics. 16
- 3. Discuss uses of measures of dispersion in business decision making. Calculate mean and variance of the following data : 16

Size	14	16	18	20	22	24	26
Frequency	12	13	14	15	13	12	16

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**UNIT – II**

4. Discuss meaning and types of regression briefly. Compute the trend values by method of least squares from the following data : 16

Year	1991	1992	1993	1994	1995	1996	1997
Production	80	90	92	83	94	99	92

5. Explain meaning and types of correlation briefly. Also discuss Karl Pearson's coefficient of correlation with example. 16

**UNIT – III**

6. Discuss time series briefly. What are its objectives ? Calculate the trend values taking 3 yearly and 5 yearly period of moving average : 16

Year	Sales ('000 Units)	Year	Sales ('000 Units)
1994	9	2002	16
1995	12	2003	18
1996	11	2004	20
1997	8	2005	24
1998	14	2006	23
1999	15	2007	25
2000	27	2008	27
2001	18		

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P. T. O.

Roll No. ....

**12649**

**MBA 2 Year 3rd Semester (CBCS)  
2019-20 New Scheme  
Examination – December, 2022  
OPERATIONS MANAGEMENT  
(Project Management)  
Paper : 20IMG23GO1**

*Time : Three hours ] [Maximum Marks : 80*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** All question of Section 'A' are *compulsory*. Attempt any *four* questions from Section 'B' selecting *one* question from each Unit. All questions carry equal marks.

**SECTION – A**

1. Define the following : 16
- (a) Meaning of project.
  - (b) Meaning of UNIDO.
  - (c) Meaning of demand analysis.

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