



INDIAN INSTITUTE OF MATERIALS MANAGEMENT

Post Graduate Diploma in Materials Management- 3 years Graduate Diploma in Materials Management

Dec 2019

Paper No. 13 RESEARCH METHODOLOGY

Date: 30.12.2019

Max .Marks: 100.

Time: 10.00 to 1.00 p.m.

Duration: 3 hours

Instructions:

1. The Question Paper is in two parts- Part A (compulsory) and Part B.
2. From Part A answer all the questions. Each question carries 1 mark, total 25 marks. **(Total Marks 25)**
3. From Part B answer any five questions. Each question carries **15 marks, total 75 marks.**
4. Use of non-scientific calculator and/or mathematical tables is permitted. Graph paper can be used wherever necessary.

PART A

(25 x1 = 25 marks)

(Compulsory, each sub-question carry one mark)

Q.1: State whether the following statements are true or false:

[10 marks]

- a. Research is an art of scientific investigation.
- b. Research design is not an important step in marketing research.
- c. Analysis of the data involves Editing, Codifying and Tabulating.
- d. Exploratory Research is a type of research only.
- e. First hand data collected is not a Primary Data.
- f. Numerical figures represented by pictures are pictograms.
- g. A frequency distribution can not be represented by means of a graph.
- h. A sample is a part of a target population, which is carefully selected to represent the population.
- i. The theory of probability is not a study of Statistical or Random Experiments.
- j. Point estimate and Internal Estimate are two types of Estimates.

Q.2: Expand the following:

[5 Marks]

- a. SPSS b. NRS c. AIMA d. MCD e. ROI

Q. 3: Fill in the blanks:

[10 Marks]

- a. Research in common man's language refers to.....
- b Andare two broad approaches for collection of primary data
- c. Logarithmic graph is obtained when both the axes are measured in Unit.
- d. Sampling is of two types namely Probability and.....sampling.
- e. Axiomatic approach to Probability is also known as.....approach to Probability.
- f. An estimator is a function of the sample data that is used to estimate an unknown population parameter which is called the
- g. A relative measure of dispersion that enables us to compare two distributions is
- h. Dolex 30 is a dollar linked version of.....
- i. Under Hypothesis Testing there are to types of tests i.e.....and
- j. KISS approach stands for

PART B
(Answer any five)

(5 x15 = 75 marks)

Q. 4 a. Describe the Qualities of a Researcher. What is the difference between a Researcher and a Manager
[15 Marks]

Q. 5: Describe the various types of Research and methods of Research. **[15 marks]**

Q. 6 Present the following data by a SQUARE Diagram: **[15 marks]**

Year	:	2000	2004	2008	2012	2016
State's export	:	1823	4970	6591	9981	20295

(In ₹ crore)

Q. 7: Write short notes (any three) **[3 x5 = marks]**

- a. SPSS Software
- b. Oral Report & Written Report
- c. Binomial Distribution
- d. Types of Diagrams

Q. 8: Describe common forms of graphics of a frequency distribution **[15 marks]**

Q. 9: a. Explain about Analysis of Variance (ANOVA) **[10 Marks]**

b. Compute the rate of inflation for the following data: **[5 marks]**

Year	:	2010	2011	2012	2013	2014	2015
Price Index	:	108.2	114.6	120.5	123.3	128.2	130.1

Q. 10: From the following data, find out the types of association of A and B. **[15 marks]**

1. N=200	(A) =100	(B) =100	(AB) =15	
2. N=400	(A) =50	(B) =160	(AB) =20	
3. N=800	(A) =160	(B) =300	(AB) =50	

Q. 11: Describe about preparation of Research Report. **[15 Marks]**
