

Subject : Data Analysis for Management

Day : Thursday
Date : 15/12/2016



Time : 02.00 P.M. TO 05.00 P.M.
Max Marks : 70 Total Pages : 2

N.B.

- 1) Attempt any **THREE** questions from Section – I and any **TWO** questions from Section – II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in the **SAME** answer book.
- 4) Use of non-programmable calculator is allowed.
- 5) Graph paper and statistical tables will be provided if necessary.

SECTION – I

Q.1 Explain in detail Data Management and Data Analysis with examples. **(14)**

Q.2 For the following data find median, if mean = 35. **(14)**

Age	0-10	10-20	20-30	30-40	40-50	50-60
Examiner B	10	20	30	50	?	30

Q.3 a) From the following data, calculate 3 yearly and 5 yearly moving averages. **(07)**

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Sales (Rs Lakhs)	200	120	280	240	160	320	360	400	320	360

- b)** If $P(A) = 0.4$, $P(B) = 0.5$ find $P(A \cup B)$ if **(07)**
- i)** A and B are mutually exclusive.
 - ii)** A and B are independent

Q.4 The mean life-time of 60 watt light bulbs produced by Bright Light bulbs company is 200 hours. It is known that the standard deviation is 20 hours. Assuming that the life times of the light bulbs are normally distributed, what are the probabilities that a single 60 watt light bulb extracted from the production lot will **(14)**

- a)** Burn out between 180 hours and 210 hours?
- b)** Burn out at a time greater than 250 hours?

Q.5 Write short notes on any **TWO**: **(14)**

- a)** Poisson Distribution
- b)** Ogive curves
- c)** Observational studies
- d)** DBMS

P.T.O.