COMMONWEALTH EXECUTIVE MBA / MPA PROGRAMME

)252

Term-End Examination

June, 2010

C-7: QUANTITATIVE TECHNIQUES

Time: 3 hours

Maximum Marks: 100

(Weightage 70%)

Note: (i) There are two sections.

(ii) Section A has six questions, each carrying 15 marks. Attempt any four questions from section A.

(iii) Section B is compulsory and carries 40 marks.

Attempt both questions.

(iv) Statistical tables may be supplied on request.

SECTION - A

- 1. Describe the main features of the quantitative approach to management. What factors in modern society contribute to the increasing importance of quantitative approach to management?
- 2. Following is the frequency distribution of weights of the 100 male students at XYZ university. Find the arithmetic mean of the weight of the given students.

Weight kg	60-62	63-65	66-68	69-71	72-74
No. of students	5	18	42	27	8

- 3. A salesman is known to sell a product in 3 out of 5 attempts. While another salesman in 2 out of 5 attempts. Find the probability that.
 - (a) no sale will be affected
 - (b) either of them will succeed in selling the product.
- 4. What is the major difference between probability and non-probability sampling? List different types of probability and non-probability sampling methods.
- 5. The average weekly food expenditure of families in a certain area has a normal distribution with mean = Rs. 125 and standard deviation = Rs. 25. What is the probability that a family selected at random will have an average weekly expenditure on food in excess of Rs. 175/-?
- **6.** Write short notes on *any three* of the following :
 - (a) Mode
 - (b) Skewness
 - (c) Criteria of optimism
 - (d) Student and distribution
 - (e) Seasonal variation in Time Series.

SECTION - B

- 7. What is meant by correlation? What are the limits of the value of correlation coefficient (r)? What do the positive, negative and zero values of r indicate?
- A random sample of 100 recorded deaths in a city in India during the past year showed an average life span of 71.8 years with a standard deviation of 8.9 years. Does the average life span today is greater than 70 years. Use 0.05 level of significance.