

[LD 1013]

OCTOBER 2013

Sub. Code: 2033

**MBA HOSPITAL AND HEALTH SYSTEM
MANAGEMENT DEGREE EXAMINATION
FIRST YEAR**

(for candidates 2011 – 2012 onwards)

PAPER III – BIOSTATISTICS AND OPERATION RESEARCH

Q.P. Code : 432033

Time : 3 hours

Maximum : 100 marks

I. Elaborate on :

(2x20=40)

1. Briefly explain the Skill and Personal characteristics need by selecting Managers.
2. An animal feed company has to produce 200 kgm. of a feed mixture consisting of two ingredients X_1 and X_2 . X_1 costs Rs. 3per kgm and X_2 Rs. 5 Per kgm. Not more than 80 kgm of X_1 can be used and at least 60 kgm of X_2 must be used. Using Simplex technique find how much of each ingredient should be used in mix of the company to minimize cost. Also determine the cost of optimum mix.

II. Write notes on :

(10x6=60)

1. Define statistics. Discuss its scope and limitations.
2. Describe the various steps involving to construct a frequency table.
3. Explain how the data recorded in medical practice.
4. Define arithmetic mean. Bring out the properties of arithmetic mean.
5. What is Scatter diagram? Bring out the merits and demerits.
6. List out the advantages and disadvantages of non parametric tests.
7. Define operation Research. Explain the limitation of operation research.
8. Explain the concept of Balanced and Unbalanced problems in transportation problem.
9. Explain how the situational factors affecting staffing.
10. Define controlling. Explain the concept of effective control technique.
