

Agricultural and Food Engineering Department

Indian Institute of Technology

Kharagpur-721302

End Spring Semester Examination 2012-2013

Date of Examination:
Subject No. AG60062
Subject Name: Management and Productivity
No. of Student: 8

Time: 3 hours
Full Marks: 50

Instruction: Attempt all question. Use separate answer sheet for Part-A and Part-B

Part- A

1. What are the essentials characteristics of a good decision? (5)
2. What is meant by span of management? Explain the different types. (5)
3. What is power and how does it differ from authority? (5)
4. What is the need for training and development in organization? (5)
5. What are the barriers of communication? What steps can be taken to overcome the barriers? (5)

Part- B

1. Explain with suitable example how to determine the optimum combination of two competitive products to maximize net return? How does the change of product price affect the optimum combination of output? (6)
- 2.a) Discuss the logical steps of farm planning and farm budgeting. Draw a farm layout of 4 hectares land area showing farm house, irrigation and drainage channel and distribution.
b) Calculate the cost of cultivation and net profit of one hectare of wheat or potato. Assume the cost of different inputs. Also calculate the man days require for one hectare of cultivation. (3+5)
3. Define agricultural labour. Explain different methods of assessing labour efficiency in our country. (5)
4. Write short notes (any three) (2x3=6)
 - a) Isocline and expansion path
 - b) Law of diminishing return
 - c) Product relationship and type of farming
 - d) Elasticity of production