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B.E. / B.Tech. (Full Time) ARREAR EXAMINATIONS, Apr / May 2019

AGRICULTURAL AND IRRIGATION ENGINEERING

Seventh Semester

AI 8004 – FARM MANAGEMENT

(Regulation 2012)

Answer ALL Questions

Max Marks: 100

Time: 3 hours

Part – A (10 x 2 = 20 Marks)

- 1) Justify how *Farm Management* is a branch of *Agricultural Economics*.
- 2) State how decision making is important in farm management.
- 3) What is a *farm record* and list its objectives?
- 4) Differentiate *partial budget* and *complete budget*.
- 5) Quote some of the decisions to reduce risks in crop production.
- 6) Write any four rules in maintaining a cash book.
- 7) List the ways to improve the productivity of land.
- 8) Classify farm labour.
- 9) Under what conditions are *Linear Programming* and *Dynamic programming* used?
- 10) What are the different cost ratios in financial efficiency measures?



Part – B ( 5 x 16 = 80 marks)  
(Question No.11 is Compulsory)

- 11) a) i) Explain the Monte Carlo method of simulation in detail and formulate a numerical example for demand of butter in a dairy processing plant. Assume relevant data and discuss the step by step procedure to solve the problem. (16)
  - 12) a) i) Explain the different methods of valuing the farm inventory. (8)  
ii) Prepare a model enterprise budget for aquaculture and floriculture. (8)
- (OR)
- b) i) Prepare a farm inventory for a farm from 01.01.2015 to 31.12.2018. (8)  
ii) Explain the systematic procedure to be followed in whole farm planning for the success of farm business. (8)

13) a) i) A farmer purchased a power tiller at Rs.1,50,000/- in 2015 for his farm activities. The power tiller has a useful life of 10 years with a junk value of Rs.15,000/- at the end of its useful life. Calculate the depreciation of the power tiller by all the four methods. (8)

ii) Explain the sources and measures to manage farm risk. (8)

(OR)

b) i) With farm transactions for a period of one week, prepare a ledger, journal and subsidiary journal. (8)

ii) Prepare a model farm record for a commercial large scale poultry farm. (8)

14) a) i) Discuss Break Even analysis and its use in Agricultural Economics and Farm management. (8)

ii) Explain farm labour management, its classification and characteristics. (8)

(OR)

b) i) Sketch a neat layout of a farm with all components and discuss the factors affecting farm layout and developing a good farm layout. (16)

15) a) i) Relate farm management with other sciences and give suitable examples. (8)

ii) Explain the farm management decisions in detail. (8)

(OR)

b) i) List the objectives of farm management and tabulate the differences between agricultural production economics and farm management. (8)

ii) Detail the different factors influencing the size of a farm. (8)

