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Model Answer Paper

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

B.Sc. (Hons.) Agriculture

	Semester	: VI (NEW)	Academic Year : 2023-24			
	Course No.	: ECON-365	Title: Farm Management, Production &			
			resource economics			
	Credits	: 1+1=2				
	Date & Day	:	Time :	Marks: 40		
	Note: 1) Solv	e ANY EIGHT Quest	tions from SECTION "A"			
	2) All (questions from SECTIO	ON "B" are compulsory.			
		questions carry equal n			2 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	4)Dia	w neat diagrams where	The state of the s			
			SECTION 'A'			
Q.1.	principle of the manuagement and capitall and of					
	of them with example.					
	Ans: Far	m Management – It is	s a science which deals with j	udicious decisions on the	use (1)	
	of scare resources having alternative uses to obtain the maximum profit and finally					
			is basis from the farm as a wh	nole.		
	Bas	ic principles of farm	management	*	(3)	
	1)	Principle of variable	proportions or law of diminis	shing marginal returns.		
	2)					
	3)	Principle of substitut	ion between input (least cost	principle)		
	4)		principle or opportunity cost		6. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
	5)		nbining enterprises or produc			
	6)					
	7)		nciple. (Explain any one of t	hem in short)		
Q.2.	What do yo	ou mean by types of f	arming? Explain the concep	nt of diversified forming	with (1)	
7	their advar	ntages & disadvantage	es.	or of diversified faithing	MICH (4)	
	Ans: Typ	es of farming - Metho	ds of farming is according to	land utilization and	(1)	
		ning practices followed				
	Dive	ersified Farming :- A	farm on which no single prod	luct or source of income	(3)	
	equa	als as much as 50% of	the total receipt is called a div	versified farming.		
			e of land, labour, and capital.	,		
			due to a crop failure and unfa	avorable market prices.		
			ns are obtained from various			
	Disa	dvantages :- 1) Mar	keting is insufficient 2) Be	cause of varied jobs in	diversified	
	farm	ning, farmers cannot eff	fectively supervision.	J		
		etter equipping of the f				
			erations, there may be chan	ices to leaks in farm hus	siness may	
	rema	ains undetected.	,,	ivo to tours in turn our	mess may	
Q.3.	What is far	m planning?. State ar	ıd explain different steps in	farm planning	(4)	
			cess of making decisions regarded		(1)	
			ness, so that it results in a con	tinuous maximization of		
		eturns of a farm busine	SSS.	,		
		s in farm planning :-			(3)	
		Preparing the farm ma				
	2)	Recording the history	of the farm			

- 3) Planning human and bullock requirement
- 4) Planning the land use and soil conservation practices
- 5) Planning live-stock programme.
- 6) Planning the marketing of products.

(Explain in short)

Define iso-cost line. Determine the least cost combination by graphic method.

(4) ISO-Cost line: Indicating all possible combinations of two inputs which can Ans (1)be purchased with a given amount of investment fund.

Since scope of the iso-cost line indicates the ratio of factor prices and slope of the iso-product curve represents the marginal rate of substitution, minimum cost for a given output will be indicated by the tangency of these iso-line.

(draw graph and its explanation)

For this purpose isoquants and iso cost line, are drawn on the same graph for different levels of least cost production and total outlay combination on a graph will be,

Slope of iso-quant = slope of Iso-cost

State and explain the characteristics of farm management. Q.5.

(4)

(3)

Ans:1) Practical science

- 2) Profitability oriented
- 3) Integrating science
- 4) Broader field jack of many trades & master of one.
- 5) Micro approach no 2 farms are exactly identical. (Explain in short)

Q.6. Explain in detail about cost concepts.

(4)

Ans: Cost concepts. :-

The cost of production of a crop is considered at three different levels viz.. cost- A cost-B and cost 'C'. The cost concepts generally followed in the studies of cost of cultivation as well a cost of production of crops are as under.

- 1) Cost -A: Actual paid- out costs by owner cultivator, inclusive of both cash and kind expenditure, which include cost of following items.
 - 1) Hired human labour -
- a) Male
- b) Female

- 2) Bullock labour -
- a) Owned
- b) Hired

- 3) Machine labour -
- a) Owned
- b) Hired

- 4) Seeds 5) Manures
- a) Owned a) Owned
- b) Purchased b) Purchased

- 6) Fertilizers
- 7) Insecticides and pesticides
- 8) Irrigation charges
- 9) Other purchased inputs (Bio-fertilizers, growth regulators, bio pesticides, etc)
- 10) Land revenue, cesses and other taxes
- 11) Depreciation on capital assets (Hand tools, implements and machinery)
- 12) Interest on working capital
- 2) Cost -B: Rental value of land and interest on fixed capital (considered as opportunity
 - Cost B = Cost A Imputed rental value of owned land + imputed interest on owned fixed capital.
- 3) Cost C: It is the total cost of production, which includes all cost items. Actual as well as imputed. The value of family labour is to be imputed and added to Cost-B to work out Cost-C. Also managerial or supervision charges are added in Cost-B @ 10% of Cost-A.

Therefore, Cost C= Cost B+ Imputed value of family human labour + Supervision charges @ 10% of cost-A)

(Give the formula of per ha cost of cultivation and per quintal cost of production)



Q.7. Define natural resource economics and explain the difference between Agricultural Economics and Natural resource economics.

Ans Natural Resource Economics (NRE):

(1)

Natural resource economics deals with the supply, demand and allocation of the earth natural resource to increase sustainability. Main objective of NREs is to better understand the role of natural resources in the economy in order to develop more sustainable methods of managing those resources to ensure their availability to further generations. NRE includes Welfare theory, Pollution control, Resource exhaustibility, Environmental management, Resource extraction, Non-market valuation and Environmental policy.

Particulars	Agricultural Economics	Natural Resource Economics
Main focus	Inputs like seeds, fertilizers	Resources like water, land, forests, fishery, environmental services,
· · · · · · · · · · · · · · · · · · ·		biodiversity
Type of cost	Marginal cost = additional cost	Transaction cost = cost due to
	due to additional output	externality which arises due to lack
		of well-defined property rights, lack
		of information
Relevance of	Market price is relevant since	Valuation of natural resource is
Market Price	markets for agricultural	relevant since property rights are not
Value	commodities are well defined	definable
Market	Well defined market exists for	Well defined markets do not exist
- 1000	agricultural commodities	for natural resource, due to lack of
		well-defined property rights and lack
		of information.
Stake holders	Farmers, Consumers, Government	Virtually everyone in the society is a
		stake holder sine nature resources
		are indispensable and there are no
		substitutes and all need them.
Policy term	Short term policies are relevant	Long term policy is a must for
	due to dynamic implications (Ex.	sustainable use of natural resources
	Subsidy policy, price policy, credit	(like forest policy, water policy, land
	policy)	policy)
Scarcity	Scarcity of agricultural	Scarcity of natural resources is
	commodities is not relevant	relevant due to the difficulty in their
		non-renewability in the short run

Q.8 Enlist the types of product-product relationship and write in detail about supplementary enterprise. (4)

Ans Types of product-product relationship

(1.5)

- 1) Joint product
- 2) Complementary enterprise
- 3) Supplementary enterprise
- 4) Competitive enterprise
- 5) Antagonistic enterprise

Supplementary enterprise:-Those enterprise which do not compete in the use of resources. They are independent as the relationship of prices has nothing do with the almost to be produced. (Explain with example & diagram)

(2.5)

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What is farm budgeting?. Explain types of farm budgeting. Q.9 Farm budgeting :-A farm budget is a statement giving an estimate of all the farm receipts and (1)expenses to be incurred for the agricultural year. (3)Partial budgeting: 1) Estimating returns from a part of the business 2) Growing variety in place of local variety 3) Growing crop with fertilizer instead of without fertilization 4) Weeding crop with mechanical weeder v/s manual labour 5) Ploughing field by tractor v/s bullock pair Complete budgeting: If refers to making out a plan of farm as a whole or for all decisions on one enterprise. It involves complete reorganization of farm business It is also called as full budgeting of a farm The only disadvantages of complete budget are i) It requires more time and efforts ii) It requires more basic data in accurate farm. (4)Q.10 Write short notes: (Any two) (2)Ans 1) Objectives of production economics: 2) 1) To determine and define the condition which provide for optimum use of 2) To determine the extent to which the existing use of resources deviates from the optimum use. 3) To analyse the factors or forces which are responsible for the existing production pattern and resource use. 4) To explain means and methods for changing use of resources to the optimum levels. 2) Principle Characteristics of good farm plan: (2)1) It should provide for efficient use of farm resources. The plan should be flexible. 3) Simple and easily understood 4) Ensure balanced production programme. 5) Should aim at maintaining / improving soil fertility. 6) Should facilitate efficient marketing of farm products 7) It should take into account up-to-date technology. 8) It should avoid too risky enterprises. () 3) Risk and uncertainty :-Risk - A situation when all possible outcomes are known for a given management decision and probability associated with each possible outcome is known. Risk is measured through probability concepts. Uncertainty: - Uncertain situation prevails when all the possible outcomes of events are unknown, neither the probability nor the outcome are known. It is difficult to estimate. Sources of Risk :- production risk, price risk / marketing risk, financial risk institutional risk. (Short explanation)



SECTION 'B'

Q.11 Fill in the blanks.	(4)				
() A Control of soil erosion is the example, comes under Long range planning.	(1)				
2) b) Stock resources are the resources, which can be stored for using in later period	d. (1)				
3) (f) In factor-factor relationship isoquant is <u>Cónvex</u> to the origin	(1)				
لم) d) Crop production with livestock raising is called as Mixed farming.	(1)				
Q.12 State true or false	(4)				
الله (۱) At any particular time only two expansion path is possible - False	(1)				
رَانُ). Least cost combination is called as law of substitution - True	(1)				
(jy). Farm management is a macro approach of study - False iy). Production function is a technical and mathematical relationship between output and					
inputs True	(1)				
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