

AGRICULTURE ECONOMICS (V)

- 1. a) the principle that govern the operations of farmers' co-operative societies
 - Open membership
 - Equal rights
 - Share limit
 - Neutrality
 - Non- profit motive
 - Loyalty
 - Withdrawal of membershipb) the role of agricultural cooperatives in Kenya
 - Provide education/ technical information to members
 - Negotiate for higher prices for members products
 - Market farmers produce
 - Help to negotiate for loans for members without security
 - Provide inputs to members at lower prices
 - Invest and pay out returns to members in form of dividends
 - Provide transportation, storage and use of machinery to farmers c) various functions of agricultural marketing
 - Advertising: They advertise farm products in order to increase demand
 - Financing: Provide capital to carry out agricultural activities
 - Transportation: Provide transport to farm produce to the areas of consumption
 - Storage: store farm produce after harvest in order to minimize losses
 - Selling: Sell on behalf of the farmer
 - Packing: pack the farm produce to reduce storage space and make transportation easy
 - Processing: process the farm produce in order to provide a variety, increase value and prolongs shelf life
 - Grading: putting into grades to provide uniform standards
 - Assembling: gathering the farm produce for bulking and transportation
 - Insurance: Bearing risks by protecting farm damage d) Explain five problems farmers face in marketing agricultural products
 - Perishability: detoxation of quality
 - Seasonability: affect price and storage problems
 - Bulkiness: occupy large space hence problems of handling and storage
 - Storage: lack of storage facilities on farms
 - Poor transport system: Lead to spoilage of farm produce
 - Change in market demand: time between planning and actual production create lack of market

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- Lack of market information: concerning prices, how much to produce, where to sell goods; farmers end up disposing of the surplus at throw away prices
- Fluctuation in market price due to seasonality in nature of agricultural products
- Poor marketing systems for some produce: Result in lack of market
- 2. a) four marketing functions (4mks)
 - Buying and assembling
 - Transportation and distributing
 - Storage
 - Packing
 - Processing
 - Grading
 - Marketing research
 - Selling
 - Financing
 - Bearing risk
 - (4x1=4mks)
 - b) Outline four problems associated with marketing of agricultural products. (4mks)
 - perishability
 - seasoning
 - bulkiness
 - poor storage facilities
 - poor transport system
 - lack of market information
 - limited elasticity of demand
- 3. Two roles of agricultural society of Kenya
 - Promotes the agricultural industry
 - Organizes national ploughing competitions
 - Publish the Kenya farmer magazine
 - Improve useful indigenous animals
 - Publish a 'stud' book
 - Hold competitive shows
 - Hold trade fairs on livestock
 - Demonstration on how to use agricultural machinery
 - Encourage breeding and importation of pure breed stock
- 4. (a) Elasticity of demand for a commodity is the degree of responsiveness of demand to price

OR - The sensitivity of demand to change in price (1mk) (mark as a whole)

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(b) Calculation of the elasticity of demand:-√mk (4mks) Elasticity of demand = $\frac{\% \Delta \text{ Quantity}}{\Delta \text{ Quantity}}$ $\% \Delta$ price % Δ Quantity = Change in quantity x 100 Quantity √ mk $= (1000 - 800) \times 100 = 25\%$ 800 % Δ Price= Change in price x 100 price $= (20-22) \times 100 = 9\% \quad \checkmark mk$ 22 √mk Ed = 25 = 2.89

(c) Six problems of marketing maize as an agricultural product

- Bulkiness
- Poor storage
- Seasonality of crops hence demand
- Perishability of farm produce
- Poor transport system
- Delayed payments
- Competition from cheap imports (1mk x any6pts = 6mks)
- (d) Nine principles governing cooperatives in Kenya
 - Open membership- voluntarily joining on payment of membership fees
 - Equal rights One man one vote run democratically
 - Share limit A member buys shares up to a specific maximum limit.
 - Interest on shares Any money distributed according to shares
 - Withdrawal form ownership voluntarily
 - Loyalty Members to be faithful and loyal
 - Education continuously educating its members
 - Co-operative principle- cooperative members joint cooperative movement
 - Non-profit motive cooperatives are non-profit making organizations
- 5. Four reasons why training is important in some crops
 - Facilitate field practices of spraying and harvesting
 - Improves crop quality by preventing solving
 - Enable crop grow in the required direction
 - Improve yield
 - Control pest and diseases

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- 6. a) Buying and assembling acquisitions from small scale farmers and accumulate
 - Transporting and distribution from area of production to areas of consumption and retailers
 - Storage kept to accumulate in amount before selling off or to wait for time of scarcity
 - Packing- to protect agent damage, theft
 - Processing involve preparation of produce for consumption e.g. pasteurizing milk
 - Grading and sorting placing in groups according to size, colour e.t.c.
 - Each group attracts different prices
 - Packaging presentation of produce in a way to attract consumers e.g. labeling, good packing materials
 - Collecting marketing information through media, on prices and demands of goods on markets
 - Selling Final presentation of produce to consumer's e.g. advertising, display e.t.c.
 - Financing availing capital for marketing activities
 - Bearing risks at each stage of marketing, apart is to bear the cost of uncertainties
 - b) Marketing problems of agri products
 - Perishability short life cycle
 - Seasonality supply depends on the season/ vary with season
 - Bulkiness demand for more space Vs value
 - Storage need costly storage e,g. cold rooms, refrigeration
 - Poor transport system especially in rural areas
 - Changes in market demand take long to produce hence cannot meet changes in market
 - Limited elasticity of demand restrict supply
 - Lack of market information
- 7. Is the degree of responsiveness of supply to change in price
- 8. Giving subsidies by reducing the cost of production inputs Fixes prices of the related products
 - b) The role of Agricultural Co-operatives in Kenya
 - Co-operators pool their resources together to buy expensive machinery e.g. tractor for use by the members
 - Provide education/ technical information to members
 - Provide loans to members in form of inputs and cash
 - Negotiate for higher prices for members
 - Reduce overhead costs e.g. transportation, storage and use of machinery
 - Bargain with supplier to give discount on seed, fertilizers and other farm inputs/ provide inputs at lower prices
 - Provide employment for their members
 - Benefit members from lower taxes charged

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- Provide strong bargaining power for members on policy issues
- Market farmers produce
- Invest and pay out returns to members in form of dividends
- Help to negotiate for loans for members without security
- Some provide banking services to members

9. Law of demand – when the price of a good or service is low, many consumers are able and willing to

buy it and vice versa

- Law of supply when the price of commodity is high, many sellers are able to provide the commodity in market for sale. (mark as a whole)
- 10. (i) K.N.F.U Kenya National Farmers Union
 - (ii) H.C.D.A Horticultural Crops Development Authority
- 11. a)- It is an organization of people who have joined together voluntarily with a common purpose

for a mutual economic benefit

b) Two functions of co-operatives

- Marketing farmers produce

- Negotiating for fair prices for farmers produce and also for Inputs

- Keeping records of the co-operative activities and informing the members accordingly

- Paying dividends to the members

- Giving loans in hand to the members
- Educating the members on matters relevant to their co-operative through field days, seminars, workshops and demonstrations

c) - Open and voluntary membership: Rights of anybody who fulfills the conditions set out by the

laws of co-operative society

- Democratic control: All members have equal rights to say on the affairs of the co-operative
- Each member is only allowed one vote regardless of shares possessed
- Share limit: All members should have equal chances of buying shares
- Distribution of dividends: Any profits should be distributed to members as dividends depending on their share contributions
- Withdrawal of membership: Should be voluntary
- Selling of produce: Only members can sell their produce through the cooperatives
- Loyalty: members are bound to be loyal to their co-operative society
- Non- profit motive: Co-operatives are not supposed to be profit motivated. They should sell their products to members at seasonable prices
- Co-operative organization: The co-operative should join the co-operative movement from primary level to national or international level
- Co-operative should sell on cash goods sold on credit are sometimes not paid for
- Continuous expansion: Co-operatives should aim at continuous expansion in terms of membership and physical facilities

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- Neutrality: Co-operatives should be neutral in terms of religion, politics or language
- 12. Four factors which influenced the demand of tomatoes in the market
 - Quality of tomatoes
 - Price of tomatoes
 - Presence of other substitutes
 - Price of the substitute