Multiple Choice Questions AGRO-247

Farming System & Sustainable Agriculture

- Farming is a process of harnessing solar energy in the form of economic plant & animal products.
- System is a set of elements or components that are closely interred related and interact among themselves.
- Farm is an area of land and its buildings which is used for growing crops and rearing animals.
- Integration of farm enterprises for optimal utilization of available resources and bringing prosperity to the farmers is called as Farming system.
- Farming system is a decision making tool and land use unit comprising the farm household, cropping and livestock systems that produce crops and animal products for consumption and sale.
- Farming system is a resource management strategy to achieve economic and sustained agricultural production.
- Integration of farm enterprises depends on many factors such as Soil and climatic factors, availability of resources & economic factors.
- Farming system is a set of agricultural activities organized into functional unit for maintaining desirable level of biological diversity and ecological stability.
- Sustainability is the objective of farming system.
- 10. Sustainability is the quality of being able to continue over a period of time.
- Direct collection of farm products from non aerable lands is called as
 Collective farming.
- 12. The farming community cultivates the land for growing crops for obtaining maximum production per unit area is called as **Cultivation farming**.

- 13. When farming is done on a small size of holding is called as Small scale farming.
- 14. When farming is done on large scale with large amount of capital, labour and risk is called as Large scale farming.
- 15. The farm in which 50% or more income is received from a single source is called as Specialized farming.
- 16. Diversified farming having several enterprises or sources of income but no sources of income equal as much as 50% of the total receipt.
- Farming in which crop production is combined with raising of livestock is called as Mixed farming.
- 18. The livestock graze on the natural vegetation is called as Ranching.
- 19. The crops grown in region where annual rainfall is <750 mm is called as Dry farming.
- More inputs are used to increase the production on same land is called as
 Intensive cultivation.
- When more area is brought under cultivation to increase the income is called as Extensive cultivation.
- 22. In intensive cultivation Land is fixed only inputs are increased.
- 23. Farming without irrigation is referred as Rainfed / Dry farming.
- 24. Water is applied through external sources in addition to natural sources is called as Irrigated farming.
- 25. Rotational intensity of Shifting cultivation is <33 %.
- 26. Rotational intensity of Fallow farming is 33-66 %.
- Rotational intensity of Permanent cultivation is >66 %.
- 28. Rotational intensity of **Multiple cropping** is >100 %.
- Grasses and legumes are utilized/grown for livestock production is called as Ley system.
- 30. Commercialized farming is a type of farming system where more than 50% produce is sold in market.

- In Partly commercialized farming system, more than 50% produce is left for home consumption.
- 32. Subsistence farming is a type of farming system in which no sale of crop and animal products.
- 33. Plantation farming is the farming where single cash crop is grown for sale.
- 34. Total nomadism system in which animal owners do not have permanent place of residence.
- 35. Semi nomadism in which animal owners have permanent place of residence.
- Transhumans means seasonal migration of livestock to suitable grazing land.
- 37. Partial nomadism means owners have permanent place of residence and who have herds at their disposal, which remains in the vicinity.
- 38. Stationary animal husbandry occurs where the animals remain on the holding or in the village throughout the entire year.
- 39. Manual labour is used for the cultivation of crops is called as Spade farming.
- 40. Bullock power is used for the cultivation of crops is called as Hoe farming.
- Power operated implements are used for the cultivation of crops is called as Mechanized or Tractor farming.
- Cropping is an important component of farming system.
- 43. Gir, Sahiwal & Sindhi cows are high milk yielders, but the bullocks are of poor draft quality.
- 44. Jersey, H.F & Brown Swiss exotic cows breeds are high milk yielders.
- 45. Goat meat is preferred meat in the country.
- 46. A goat hoof fetches a better price than a sheep hoof.
- 47. Goat is called as poor man's cow.
- 48. The space requirement for a goat is **4.5** to **5.4** m².
- Sheep is called as Grazer & Goat is called as Brazer.
- 50. Pigs are maintained for the production of pork.

- 51. Yorkshire & Landrace are the imported breeds of pigs are being used widely in country.
- 52. Poultry is one of the fastest growing food industries in the world.
- 53. As per the nutritional recommendation the per capita eggs consumption is estimated at 180 eggs & 9 kg meat/year.
- 54. Important Indian duck breeds are Sylhet mete & Nageswari are mostly found in the eastern region of the country.
- 55. Rearing of Honeybees is called as Apiculture.
- 56. Apis cerana is known as Indian bee & Apis mellifera is known as European bee.
- Rearing of Fish (Fingerlings) is called as Pisiculture/Aquaculture.
- 58. Grass carp is called as fast growing exotic fish.
- 59. Cultivation of mulberry plants is called as Moriculture.
- 60. Karnataka is the major silk producing state in India
- 61. The average yield of mulberry leaves is 30-40 t/ha/year.
- 62. The rearing of silk moths and their larvae for the production of silk is called as Sericulture.
- 63. Mushroom is called as edible fungus.
- 64. Mushroom is a vegetable that is a cultivated in protected farms in a highly sanitized atmosphere.
- 65. Biogas is a clean, unpolluted and cheap source of energy, which can be obtained by a simple mechanism and little investment.
- 66. Biogas contains Methane & CO2 gases.
- 67. Biogas generation is a complex Bio-chemical process in which cellulolytic material is broken down in Methane and CO₂ by different group of microorganism.
- 68. Slurry is obtained after the production of biogas.
- The dry slurry contains about 1.8 % N, 1.10 % P and 1.50% K.
- 70. The maximum temperature required for the production of biogas is 30 to 35°C.

- 71. Cultivation of agricultural crops + forest trees is called as Agri-silviculture.
- 72. A Cropping system refers to a set of crop systems, making up the cropping activities of a farm system.
- 73. Cropping system is the cropping patterns used on a farm and their interaction with farm resources, other farm enterprises and available technology which determine their make up.
- 74. The yearly sequence and spatial arrangement of crops on a given area is called as **Cropping pattern**
- 75. Growing number of crops on the same piece of land during the given period of time is called as **Intensive cropping**.
- 76. Growing of only one crop year after year on the same piece of land is called as Mono cropping.
- 77. Mono cropping increases incidence of pest & diseases.
- 78. Growing two or more crops on the same field in a year is called as **Multiple** cropping system.
- Growing of any legume crop in cropping system, it increases Soil fertility
 crop yield.
- 80. Growing two or more crops simultaneously on the same field with definite row pattern is called as Intercropping.
- 81. Growing two or more crops simultaneously where one or more crops are planted in rows is called as **Row intercropping**. Ex. Maize + greengram (1:1).
- 82. Growing two or more crops simultaneously in strips wide enough to permit independent cultivation but narrow enough for the crops to interact agronomically is called as **Strip intercropping**. Ex. Groundnut + Redgram (6:4) strip.
- 83. Growing two or more crops simultaneously on the same field with no distinct row arrangement is called as Mixed cropping.
- 84. Growing of two or more crops simultaneously during the part of the life cycle of each is called as **Relay cropping**.

- 85. Relay cropping is a second crop is planted after the first crop has reached its reproductive stage of growth, but, before it is ready for harvest.
- 86. Food crops are grown in alley formed by hedge rows of trees or shrubs in arable lands is called as **Alley cropping**.
- In Alley cropping system agricultural, horticultural or forage crops are cultivated.
- 88. Growing plants of different height in the same field at the same time is termed as Multistoried (Multi-tier) cropping.
- 89. Multistoried cropping is the practice of different crops of varying heights, rooting pattern and duration to cultivate together.
- 90. Growing two or more crops in sequence on the same field in a farming year is called as Sequence cropping.
- 91. Growing of two crops in a year in sequence is called as Double cropping.
- 92. Growing of three crops in a year in sequence is called as Triple cropping.
- 93. Growing of four crops in a year in sequence is called as Quadruple cropping.
- 94. The cultivation of crop re-growth after harvest is called as Ratoon cropping / Ratooning.
- 95. Ratooning reduces the cost of cultivation of sugarcane crop.
- 96. Fallowing means ploughed but left unseeded during a growing season.
- 97. When land is limited Intensive cropping is adapted to fully utilize available water and labour.
- 98. In low rainfall regions (<750 mm/annum), Mono cropping is followed.
- When rainfall is more than 750 mm/annum, Intercropping is followed.
- 100. When rainfall is between 750-1150 mm/annum, triple and quadruple cropping is adopted.
- 101. Multiple cropping index is the ratio of total cropped area to the total land area available for cultivation (%).
- 102. Cropping intensity (CI) is the ratio of total cropped area to the net cultivable area multiplied by 100.

- 103. It is calculated: Total Cropped area / Net Cultivable area X 100.
- 104. Cropping intensity is expressed in Percentage (%).
- 105. Rotational intensity (RI) is the ratio of number of crops grown in a field to the years of rotation multiplied by 100.
- 106. It is calculated: No. of crops grown in a field / Years of rotation X 100.
- Gross returns= Value of M.P. + Value of B.P.
- 108. Cost of cultivation= Total expenditure incurred
- 109. Net returns= Gross return Cost of Cultivation
- 110. B:C ratio= Gross return / Cost of Cultivation
- 111. Per day return= Net returns / Cropping period (days)
- 112. Sustainable is a Latin (Sustinere) word, means to maintain.
- 113. Sustainable agriculture is also known as Eco farming/ Natural farming/ Organic farming/ Permaculture.
- 114. Sustainable agriculture is the form of agriculture aimed at meeting the needs of present generation without endangering the resource base of the future generation.
- 115. Sustainable agriculture is the successful management of resources for agriculture to satisfy the changing human needs, while maintaining the quality of environment and conserving natural resources.
- 116. Major goals of sustainable agriculture are Environmental health, economic profitability and social and economic equity.
- In sustainable agriculture non-renewable resources are most efficiently used.
- 118. Conservation agriculture is a recent agricultural management system that is used in many parts of India.
- 119. Conservation agriculture is defined as minimum soil disturbance (notill) and permanent soil cover (mulch) combined with crop rotations.
- 120. Conservation agriculture is a farming system that maintains a permanent soil cover, avoids soil tillage and cultivates diverse crops to

- improve soil condition, reduce land degradation and increase water and nutrient use efficiency.
- 121. Major principles of conservation agriculture are No tillage, crop rotation & mulching.
- 122. Integrated Farming System (IFS) is a set of agricultural activities organized into a functional unit to profitably harness the solar energy while preserving land productivity, environmental quality and maintaining the desirable level of biological diversity and ecological stability.
- 123. IFS started in 1960 at South-east Asia.
- 124. IFS is a integration of different agricultural allied enterprises with crop activity to reuse and recycle waste material of one component as input in the other linked component and to reduce the cost of production and enhance net income of farm.
- 125. IFWMS developed by Prof. Chan (Fiji)
- 126. IFWMS: Integrated Food & Waste Management System.
- 127. Efficient recycling of farm and animal waste is the main objective of IFS.
- 128. In IFS the combination of one or more enterprises gives greater income than single enterprises to small and marginal farmers.
- 129. Integrated Farming System is most beneficial to Small and marginal farmers.
- 130. Dry land cropping + Sheep/Goat + Tree/Grass fodder is an IFS model for Dryland / Rainfed situation.
- 131. If S model for wet land situation is Cropping + Fish + Poultry + Mushroom.
- 132. Cropping + Cattle + Biogas plant + Mushroom is an IFS model for Irrigated / Garden situation.
- 133. LEIA means maximum utilization of local resources with less cost on external inputs for agriculture production.
- 134. LEIA: Low External Input Agriculture.

- 135. HEIA means maximum use of external inputs and chemical fertilizers.
- 136. HEIA: High External Input Agriculture
- 137. LEISA is an integrated agriculture system consisting biodynamic, natural organic and regeneration subsystem.
- 138. LEISA: Low External Input and Sustainable Agriculture.
- 139. Reduction of purchased inputs and increase use of on-farm resources is called as LEIA.
- 140. Organic farming is the backbone of sustainable agriculture.
- 141. Energy required for carrying various operations from sowing to harvesting is called as **Direct energy.**
- 142. Energy used in manufacture, packaging and transport of fertilizers, pesticides and machinery is called as **Indirect energy**.
- 143. IFS perform better than conventional farming in respect to floral & faunal diversity.
- 144. Efficiency is an expression of obtainable output with the addition of unit amount of input.
- 145. Resource use efficiency includes the concepts of technical efficiency, allocative efficiency & economic efficiency.
- 146. Technical efficiency is the ability of a firm to produce output with minimum quantity of inputs under given technology.
- 147. Allocative efficiency measures the degree of success in achieving the best combination of different inputs in producing output under the relative prices of these inputs.
- 148. Economic efficiency is a product of technical & allocative efficiency.
- 149. Agro-biodiversity is the variety and variability of plants, animals & microorganisms.
- 150. First International Agro Biodiversity Congress 2016 is being held in New Delhi
- 151. Mizoram is called as bamboo state.

- 152. Silviculture is the practice of controlling the establishment, growth, composition, health and quality of forests to meet diverse needs and values.
- 153. India is the second largest producer of silk in the world after China.
- 154. Suggest the best Allied Enterprise to the farmers, when the main crop grown is rice, **Fishery**.
- 155. Diversified Farming System is otherwise known as IFS.
- 156. Farming System is an Individual & Holistic approach.
- 157. The Directorate of cropping System research is located at Modipuram Meerut, U.P.
- 158. Independent enterprise included in farming system.
- 159. Dependent enterprise included in mixed system.

160. Pastoral f	arming is relate	ed to rearing of an	imals.	
	XXX	XXX	XXX	

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Course No:-AGRO-247 Credits:-1(1+0) Course Title:-Farming system and sustainable Agriculture Semester: - IV (New)

Multiple Choice Questions			
1. Crop mixture have proved biologically most dynamic under:			
A.	Water stress conditions	B.	Irrigated condition
C.	High soil fertility conditions	D.	Large holding conditions
2. C	rop production and animal husbandry col	lecti	vely is known as:
A	Mixed cropping	В	Relay farming
C	Mixed farming	D	None of the above
3.C	rop rotation is defined as a		
A	System of growing different kinds of crops on the same land	В	System of growing different crop in succession on the same land
C	A method of growing different crop	D	System of growing the same crop on different fields
4. C	ropping intensity is:		
A	The extent of the use of land for purposes other than cropping	В	The extent of the use of land for cropping purposes during a given year
C	Net cropped area	D	Gross cropped area
5. C	ropping intensity means:		
A	Percentage ratio of gross cropped area to net cropped area	В	Percentage ratio of net-cropped area to gross cropped area
С	Percentage ratio of the number of crops in rotation to period of one rotation	D	Percentage ratio of gross cropped area to the net-cropped area
6. Cropping pattern is defined as:			
A	The proportion of area under different crops	В	Growing different crops in a recurrent succession
C	The proportion of area under different crops at a particular point of time	D	A method of growing different crops

7. If farm	er practices 'sugarcane-cotton-wheat	t' the	e cropping intensity at his farm will be:
A 1009	6	В	150%
C 1009	6	D	300%
8. Intercre	opping is a system of cropping to ma	ike t	he maximum use of:
A Sola	r energy	В	Water resources
C Soil	resource	D	All above
	re the biological factors affecting fa pography acation	1	ng system among the following? B) Livestock D) Rainfall
10. Which	of the following is not the objective	e of	farming system?
A) Sa	ving Energy		B) Fodder Requirement
C) Inp	out Use Efficiency		D) Risk a version
11. Avena	fatua comes under which factor of	farn	ning system?
	vsical Factor		B) Biological Factor
C) Che	emical Factor		D) Mechanical Factor
12. Sugge A) Apid C) Fish	culture		ers, when the main crop grown is Rice. B) Sericulture D) Biogas
13. Farmin	ng system is which kind of enterpris	se ar	nong the following?
	endent Enterprise		B) Independent Enterprise
C) Both	A and B	Γ	O) None of the Above
14. Mix F	arming is which kind of enterprise a	amo	ng the following?
	pendent Enterprise		B) Independent Enterprise
C) Bot	h A and B	Ι	O) None of the Above
15. Recyc	ling of waste & amp; residues is of l	Farn	ning system.
(0.000 append	mponent		B) Objective
C) Prin			D) Advantage
16. Grazir	ng of animals on public field is know	vn a	s?
	ry Farming		B) Diversified Farming
C) Mix	Farming		D) Ranching Farming
17. Which	of the following is/are the Socio E	cond	omic factors of Farming System?
A) Fam	nily Composition]	B) Education
C) Food	d Preference	-	D) All the Above

18. The farm wastes are better recycled for p system?	roductive purposes in which type of farming		
A) Specialized Farming System	B) Integrated Farming System		
C) Diversified Farming System	D) Both A and B		
19. Olericulture refers to			
A) Flower cultivation	B) Vegetable cultivation		
C) Fish Rearing	D) Fruit cultivation		
20. In context with Gender, Farming system			
A) Sensitive	B) Insensitive		
C) Unsusceptible	D) None of the Above		
21. Farming System is a			
A) Atomistic approach	B) Individual approach		
C) Holistic approach	D) Both B and C		
 In Diversified Farming, No source of incincome. 	ome equal as much as % in total		
A) 25%	B) 50%		
C) 75%	D) 35%		
23. Specialized Farming System is aimed at.			
A) Maximization of Production	B) Maximization of Time		
C) Maximization of Area	D) All of the Above		
24. IFS lead to			
A) Low Benefit-Cost Ratio	B) High Benefit-Cost Ratio		
C) Both A and B	D) None of the Above		
25. Which of the following enterprises can be integrated in wetland ecosystem?A) PoultryB) Fisheries			
C) Both A and B	D) None of the Above		
C) 2011 17 11110 2	D) Trone of the Tree re		
26. Why Farming System is mainly recomme			
A) To increase productivity B) 70% C) To increase income	of India's population depends on agriculture D) Cheaper way of farming		
27. Which of the following is not the component of IFS?			
A) Olericulture	B) Specialized Farming		
C) Fencing	D) Sericulture		
28. Soil potentiality can be increased by			
A) Inorganic Fertilizers	B) Organic		
C) Intensified Irrigation	D) All of the above		
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29. Which objective favors Benefit-Cost rate	tio?
A) High Input use efficiency	B) Cash flow round the year
C) Profitability	D) Productivity
30. Biogas is composed of	
A) Co2	B) Methane, Co2
C) Hydrogen, Fluorine	D) Methane, Co2, Hydrogen Sulphide
31. Conventional Source of Energy among	the following
A) Solar Energy	B) Wind Energy
C) Natural Gas	D) BOTH A and B
32. Apis cerena is better acclimatized to?	
A) Plains	B) Lower Altitudes
C) Higher Altitudes	D) All the Above
33. Gir cow comes under which Breeder for	rm?
A) Dual Breeder	B) Dairy Breeder
C) Buffalo	D) Draft Breeder
34. Which of the following falls under the c	category of Exotic Breed
A) Murrah	B) Jersey
C) Gir	D) Ongole Bull
35. The most recommended depth of pond i	for fish rearing is?
A) 1-2 mt	B) 1.5-2 mt
C) 3-4 mt	D) 5-6 mt
36. Apis Mellifera is otherwise known as	921 (42 (52) - 52)
A) Indian Bee	B) Italian Bee
C) Rock Bee	D) None of the Above
37. Temperature required for gas production	
A) $15 - 20 c$	B) 20 – 25 c
C) 30 – 35 c	D) 40 – 45 c
38. Which type of Gas plant is constructed	underground?
A) Fixed Dome type	B) Float Type
C) Either of them	D) none of these
39. 1st Biogas plant in the world was estable	소리 마이크림 전화 발생님은 전경기가 요요 프라마스 (BECO) (BECO)
A) 1947	B) 1935
C) 1939	D) 1835

40. Primary Products of Biogas are	:?
A) Methane	B) Hydrogen
C) Hydrogen Sulphide	D) Both A and B
41. Phytoplankton stands as a nece	ssary term in?
A) Sericulture	B) Fisheries
C) Apiculture	D) None of the Above
crop WHEAT. This Type of Cro	
A) Sequential	B) Relay
C) Mix	D) Differential
crop POTATO in to the field. (A) Sequential	Rice and after harvesting the crop, he introduced his 2 nd This Type of cropping pattern is known as? B) Relay
C) Mix	D) Differential
44. Which among the following en	terprises provide constant income?
A) Poultry	B) Dairy
C) Fishery	D) Apiculture
45. Gas Generation is the function	of?
A) Methane Availability	B) C02 Availability
C) Dung Availability	D) Slurry
46. Sugar rich compound present in	n flowers?
A) Honey	B) Nectar
C) Pollen	D) Pasturager
47. Gas production considerably hi	gh in which Season?
A) Winter	B) Summer
C) Autumn	D) Rainy
48. Which is the largest producer of	of Mulberry Silk?
A) India	B) China
C) Philippines	D) Srilanka
49. Which of the following condition	ons are adopted by Bees?
A) Smothering	B) Spawing
C) Swarming	D) Both A and C
50. Which of the following is a pass	turagar?
50. Which of the following is a pas	
A) Sunhemp	B) Sunflower
C) Safflower	D) Potato

C) Clay	D) Alluvial	
52. Which of the following Allied	Enterprise is an Emerging enterprise?	
A) Dairy	B) Fishery	
C) Poultry	D) Sheep and goat	
53. Growing two or more crops on Row pattern is?	the same piece of land simultaneously with definite	
A) Relay Cropping	B) Sequence Cropping	
C) Intercropping	D) Mix Cropping	
54. Which type of treatment is dor	ne to Gobar to produce Fuel gas?	
A) Aerobic Treatment	B) Anaerobic Treatment	
C) Both of them	D) none of the above	
55. The major reasons for Multiple	e Cropping are	
1. Weed Control 2. To control So	il Erosion 3. To maintain sustainability 4. To save water	
A) ONLY 1, 2 CORRECT	B) ONLY 1, 3 CORRECT	
C) 1, 2, 3 CORRECT	D) ALL ARE CORRECT	

B) Silty

51. Which type of soil is highly recommended for fish rearing?

A) Sandy

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Answer Key

Question No.	Ans
1	В
2	C
3 4	В
4	В
5	A
6	В
7	D
8	C
9	В
10	D
11	В
12	C
13	A
14	В
15	C
16	D
17	D
18	D
19	В
20	A
21	C
22	В
23	D
24	В
25	C

Question No.	Ans
26	В
27	D
28	В
29	A
30	D
31	D
32	C
33	В
34	В
35	В
36	В
37	C
38	A
39	C
40	A
41	В
42	В
43	A
44	В
45	C
46	В
47	В
48	В
49	C
50	В

Question No.	Ans
51	C
52	C
53	C
54	В
55	C