## FARMING SYSTEM AND ORGANIC FARMING FOR SUSTAINABLE AGRICULTURE

## Multiple choice questions for the course Farming system and organic farming

<ul> <li>A) Farming B) Farming system C) cropping system D) none of the above</li> <li>Farming type where entire production is used for family consumption A) Subsistence B) Intensive C) Extensive D) mixed farming</li> <li>Farming type where entire production is to sell in market is A) Subsistence B) commercial C) Extensive D) mixed farming</li> <li>Farming type which refers to the livestock production along with usual cultivat A) Subsistence B) commercial C) Extensive D) mixed farming</li> <li>More area can be brought under cultivation to increase the outputcultivation A) Intensive B) extensive C) commercial D) none of the above</li> <li>Farm in which no enterprise is contributing to 50% or more income is called as farming A) Specialized B) Diversified C) mixed D) commercialized</li> <li>Combination of crop with rearing of livestock where at least 10% of its gross in be from livestock activity is called asfarming A) Specialized B) Diversified C) mixed D) commercialized</li> <li>It refers to farming system in which land under vegetation is cleared by slash a method is called ascultivation A) Shifting B) Taungya C) Zabo D) mixed</li> <li>Farming in which linking together of two or more normally separate farming sybecome subsystem of a whole farming system is</li></ul>	gy in the form of economic plant and animal product
<ul> <li>A) Subsistence B) Intensive C) Extensive D) mixed farming</li> <li>Farming type where entire production is to sell in market is         <ul> <li>A) Subsistence B) commercial C) Extensive D) mixed farming</li> </ul> </li> <li>Farming type which refers to the livestock production along with usual cultivat A) Subsistence B) commercial C) Extensive D) mixed farming</li> <li>More area can be brought under cultivation to increase the outputcultivation         <ul> <li>A) Intensive B) extensive C) commercial D) none of the above</li> </ul> </li> <li>Farm in which no enterprise is contributing to 50% or more income is called as farming         <ul> <li>A) Specialized B) Diversified C) mixed D) commercialized</li> </ul> </li> <li>Combination of crop with rearing of livestock where at least 10% of its gross in be from livestock activity is called asfarming             <ul> <li>A) Specialized B) Diversified C) mixed D) commercialized</li> </ul> </li> <li>It refers to farming system in which land under vegetation is cleared by slash a method is called ascultivation             <ul> <li>A) Shifting B) Taungya C) Zabo D) mixed</li> </ul> </li> <li>Farming in which linking together of two or more normally separate farming sy become subsystem of a whole farming system is</li></ul>	C) cropping system D) none of the above
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	comprising a set of farming practices adapted to the
erosion and degradation is called as	rming and soil management techniques protect the soil from
or opion mind dob manifold to control as control as	l as

A) Conservation a	griculture B) degraded agr	griculture C) conventional agriculture D)	
intensive agricu	ture		
12. Use of ex-situ FYN	1/Composts is used in		
A) Conservation a	griculture B) degraded agr	griculture C) conventional agriculture D)	
intensive agricu	ture		
13. HEIA stands for			
14. LEISA stands for			
15. Maintainence of div	ersity is possible in	farming	
A) HEIA B) LEIS	SA C) LEISA D) none of	f the above	
16. The practice of gro	wing different crops of var	rying height, rooting pattern and duration is	
called as			
A) multi-storied cro	opping B) multi-tier cropp	ping C) both of the above D) None of the	
above			
17. Which type of farm	ing improves the soil ferti	ility	
A) Dairy farming F	) Mushroom C) vermicor	mpost D) all of the above	
18. Culture of honeybea	es and their management is	s called as	
A) apiculture B) se	riculture C) Vermiculture	D) none of the above	
19. Practice of combining	g mulberry cultivation, silk	kworm rearing and silk reeling is called as	
A) apiculture B) se	riculture C) Vermiculture	D) none of the above	
20. The gas is generated	from the cow dung during	anaerobic decomposition is called as	
A) Biogas B) metha	ne gas C) CO2 D) All the a	above	
21. summing the produ	cts of land area to each crop	p, multiplied by the actual duration of that cr	op
divided by the total	ultivated land times 365 da	ays is called as	
A) Cultivated Land	ŕ	ource use efficiency C) land utilization index	D)
22. Energy output (MJ/	ha) / energy input (MJ/ ha	a) is called as	
A) Energy efficience	y B) Energy productivity	C) Energy intensity D) Net energy	
23. Energy output (MJ/	ha) - energy input (MJ/ h	na) is called as	
A) Energy efficience	y B) Energy productivity	C) Energy intensity D) Net energy	
24. Ratio between mark	etable crop yield and wate	er used by the crop in evapotranspiration.	
A) Crop WUE		lser use efficiency D) none of the above	

- 25. Ability of a firm to produce a given level of output with minimum quantity of inputs under a given technology is called as
  - A) Technical efficiency **B**) Allocative efficiency **C**) Economic efficiency D) environmental efficiency
- 26. Measure of the degree of success in achieving the best combination of different inputs in producing a specific level of output considering the relative prices of these inputs is called as
  - A) Technical efficiency **B**) Allocative efficiency **C**) Economic efficiency D) environmental efficiency
- 27. Production system which avoids or largely excludes the use of synthetic compounded fertilizers, pesticides, growth regulators and livestock feed additives".
  - A) Organic farming B) natural farming C) both of the above D) Nateuco Farming
- 28. IFOAM stands for
  - A) International Federation of Organic Agriculture Movement
  - B) Indian Federation of Organic Agriculture Movement
  - C) International Federation of Organic Agri Movement
  - D) Indian Federation of Organic Agri Movement
- 29. According to IFOAM organic farming is based on ......principles
  - A) 3 B) 4 C) 5 D) 2
- 30. Organic Agriculture should be managed in a precautionary and responsible manner to protect the health and well-being of current and future generations and the environment comes under principle of ......
  - A) Health B) care C) Fairness D) Ecology
- 31. Plant and animal wastes that are used as sources of plant nutrients which release nutrients after decomposition are called as......
- A) Fertilizers B) Manures C) both of the above D) none of the above
- 32. Vermicompost is an example of .....
  - A) Bulky organic manure B) concentrated organic manure C) fertilizers D) Biofertilizers
- 33. Oilcakes are examples of
  - A) Bulky organic manure B) concentrated organic manure C) fertilizers D) Biofertilizers
- 34. Nutrient composition of ......contains 0.5% N, 0.2% P<sub>2</sub>O<sub>5</sub> and 0.5% K<sub>2</sub>O
  - A) FYM B)Vermicompost C) sheep manure D) goat manure

35.	Decomposed mixture of dung and urine of farm animals along with litter and left over
	material from roughages or fodder fed to the cattle is called as
	A) FYM B) vermicompost C) sheep manure D) none of the above
36.	method of collection of manure will be efficient
	A) Byre method B) dry earth C) both of the above D) None of the above
37.	Most method of storage of manure in India is
	A) Pit method B) Heap method C) Covered pit method D) None of the above
38.	Best method of storage of manure in India is
	A) Pit method B) Heap method C) Covered pit method D) None of the above
39.	Movement of nutrients along with water during preparation and storage of manure is called
	as
	A) Leaching B) Voltalization C) runoff D) None of the above
40.	Losses of nutrients in gaseous form is called as
	A) Leaching B) Voltalization C) runoff D) None of the above
41.	Sheep and goats are allowed to stay overnight in the field and urine and fecal matter is
	added to the soil which is incorporated to a shallow depth is called as
	A) Penning B) Heaping C) Both of the above D) None of the above
42.	A mass of rotted organic matter made from waste is called as
	A) FYM B) Compost C) Vermicompost D) Oilcakes
43.	The compost made from farm waste like sugarcane trash, paddy straw, weeds and other
	plants and other waste is called as
	A) Farm compost B) Town compost C) Vermin compost D) None of the above
44.	The compost made from town refuses like street sweepings and dustbin refuse is called
	as
	A) Farm compost B) Town compost C) Vermin compost D) None of the above
45.	Nutrient composition ofis 0.5% N, 0.15% P <sub>2</sub> O <sub>5</sub> and 0.5% K <sub>2</sub> O.
	A) Farm compost B) Town compost C) vermicompost D) none of the above
46.	Nutrient composition of
47	A) Farm compost B) Town compost C) Vermicompost D) None of the above Inmethod of composting organic wastes are spread in the cattle shed to serve
	as bedding.
	A) Coimbatore B) Indore C) Bangalore D) NADEP

48. In method of composting dry waste material are used
A) Coimbatore B) Indore C) Bangalore D) NADEP
49method is the use of earthworms for composting organic residues.
A) Compost B) Vermicompost C) Farm compost D) None of the above
50. Liquid fertilizer collected over passage of water through a column of worms in action useful
as foliar spray is called as
A) Vermicompost B) Vermiwash C) manures D) none of the above
51. Practice of ploughing in the green plant tissues grown in the field and incorporating them
into the soil for is improving the physical structure as well as fertility of the soil is called
as
A) Green manuring B) Green leaf manuring C) Both of the above D) none of the above
52. Adding green plants with tender twigs or leaves from outside and incorporating them into
the soil for is improving the physical structure as well as fertility of the soil is called
as
A) Green manuring B) Green leaf manuring C) Both of the above D) none of the above
53. Stage in which green manuring crop should be incorporated
A) 50% flowering stage B) Maturity stage C) Seedling stage D) none of the above
54. C:N ratio for green manuring crops should be
A) Low B) high C) both of the above D) none of the above
55defined as preparations containing living cells or latent cells of efficient
strains of microorganisms that help crop plants' uptake of nutrients by their interactions in
the rhizosphere when applied through seed or soil.
A) Biofertlizers B) vermicompost C) Vermiwash D) none of the above
56. Example of free living Nitrogen biofertlizers is
A) Azotobacter B) Rhizobium C) Azospirillum D) Glomus
57. Example of symbiotic Nitrogen biofertlizers is
A) Azotobacter B) Rhizobium C) Azospirillum D) Glomus
58. Example of associative symbiotic biofertlizers is
A) Azotobacter B) Rhizobium C) Azospirillum D) Glomus  59. In leguminous cropsbiofertilizer is used
A) Azotobacter B) Rhizobium C) Azospirillum D) Glomus
60is a free-floating water fern that floats in water and fixes atmospheric nitrogen in association with nitrogen fixing blue green alga.

- A) Azolla B) Azotobacter C) Rhizobium D) azospirillum
- 61. Azolla is mostly used in which crop
  - A) Sugarcane B) rice C) wheat D) sorghum
- 62. Reducing or removing crop residues and alternate host sites can be used to control some insects and many diseases is called as.....
  - A) Field Sanitation B) Crop Residue Management C) both of the above D) none of the above
- 63. Growing of two or more crops in the same field with definite spacing at a time is called as......
  - A) Intercropping B) mixed cropping C) row cropping D) none of the above
- 64. Labour-intensive practice of walking the fields to remove diseased or insect-infested plants is called as.......
  - A) Rouging B) Monitoring C) inspection D) None of the above
- 65. Neem oil and pheromone traps are .....in organic farming.
  - A) Restricted B) Permitted C) none of the above D) not decided
- 66. Chloride of lime and copper salts are .....in organic farming.
  - A) Restricted B) Permitted C) none of the above D) not decided
- 67. Crops which grow densely and completely cover the ground are called as.....
  - A) Cover crops B) Nurse crops C) mulch crops D) none of the above
- 68. Systematic collection of weed and crop data from the field is called as.......
  - A) Field scouting B) Roughing C) inspection D) none of the above
- 69. Covering the soil surface can prevent weed seed germination by blocking light transmission preventing seed germination is called as.......
  - A) mulching B) roughing C) cover crops D) none of the above
- 70. Irrigating the field with water just before sowing is called as.......
  - A) Stale seed bed B) Irrigation C) Flooding D) none of the above
- 71. Rupturing plant cells when the sap rapidly expands in the cells occurs in ...........
  - A) Flamers B) soil solarization C) Infra red weeders D) none of the above
- 72. Liquid nitrogen and solid carbondioxide (dry ice) can be used for ...........
  - A) Flamers B) soil solarization C) Freezing D) None of the above
- 73. .....is the direct or indirect chemical effect of one plant on the germination, growth or development of neighboring plants.
  - A) Allelopathy B) inoculation C) soil solarization D) None of the above
- 74. Bactra verutana is used as bioagent in which crop
  - A) Cyperus rotundus B) Parthenism hysterophorus C) Ludwigia parviflora D) Opuntia dilleni
- 75. Zygrogramma bicolarata is used as bioagent in which crop
  - A) Cyperus rotundus B) Parthenism hysterophorus C) Ludwigia parviflora D) Opuntia dilleni
- 76. Dactylopius tomentosus is used as bioagent in which crop

- A) Cyperus rotundus B) Parthenism hysterophorus C) Ludwigia parviflora D) Opuntia dilleni
- 77. Trade name of devine is ........
  - A) Phyophthora palmivora B) Colletotrichum gleosporoides C) Biopolaris sorghicola D) Streptomyces hygroscopius
- 78. Trade name of *collego* is .......
  - A) Phyophthora palmivora B) Colletotrichum gleosporoides C) Biopolaris sorghicola D) Streptomyces hygroscopius
- 79. Trade name of *bipolaris* is .......
  - A) Phyophthora palmivora B) Colletotrichum gleosporoides C) Biopolaris sorghicola D) Streptomyces hygroscopius

## Fill in the blanks

- 1. Examples of Draft breeds of cow = Nagore, Hallikar, Kngeyam, Mali
- 2. Examples of Dairy breeds of cow = Sahiwal, Sindhi, Gir
- 3. Examples of Dual purpose breeds of cow = Hariana, Ongole and Kankrej
- 4. Examples of Exotic breeds of cow = Jersey, Holstein-Fresian, Aryshire, Brown swiss and Guernsey
- 5. Examples of Dairy breeds of buffalo = Murrah, Nili Rvi, Mehsana, Sati, Godavari, Zaffarbadi, Bhadawari
- 6. Recommended space requirement for cow = 12-18 m<sup>2</sup>
- 7. Recommended space requirement for buffalo = 12-15 m<sup>2</sup>
- 8. Gestation period of cow = 280 days
- 9. Best time to serve a cow = last stage of heat
- 10. Lactation period for cow = 9-10 months
- 11. Lactation period for buffalo = 7-9 months
- 12. She buffalo comes to heat every= 21-23 days
- 13. Gestation period of buffalo = 310 days
- 14. The space requirement for goat =  $4.5-5.4 \text{ m}_2$
- 15. Gestation period of goat = 145-155 days
- 16. Goat matures in = 6-7 months
- 17. Number of kitts are given birth at a time = 1-3
- 18. Mother is allowed for mating after = 45-60 days
- 19. Optimum time of service in sheep = end of heat period
- 20. Gestation period in sheep = 142-152 days
- 21. Ram will be in full vigour = 2.5-5 years
- 22. Popular sheep breeds of temperate Himalayan region= Gurez, Karanah, Bhakarwal, Gaddi
- 23. Popular sheep breeds of dry western region = Lohi, Bikaneri, Kutchi, Kathiawari
- 24. Popular sheep breeds of southern region = Deccani, Nellore, Bellary, Mandya, Bandar

- 25. Meat of pigs is called = Pork
- 26. Number of piglets farrowed by pig at a time= 10-12
- 27. Popular breeds of pigs = White Yorkshire and Land race
- 28. Sows are weaned after= 40 days
- 29. Gestation period of pig = 114 days
- 30. Noraml time of farrowing in pigs = 1.5-4 hours
- 31. Global per capita egg consumption per year = 120 eggs
- 32. Per capita egg consumption per year in India = 32-33 eggs
- 33. Recommended meat and egg per capita per year = 9 kg meat and 180 eggs per year
- 34. Floor area required for light bird = 0.2 m<sup>2</sup>
- 35. Floor area required for heavy bird =  $0.3-0.4 \text{ m}_2$
- 36. Percentage of expenditure spent on feed of poultry = 60-70%
- 37. Total duration of rearing a broiler= 6 weeks (1-1.5 kg body weight)
- 38. Total duration of rearing a layer=upto 1.5 years
- 39. Number of eggs produced by duck per year = 130-140 eggs
- 40. Incubation period for ducks = 28 days
- 41. Popular duck breeds for egg laying = Khaki Campbell and Indian runner
- 42. Popular duck breeds for meat = White pekin, Muscovy and Aylesbury
- 43. Rearing of honey bees is called = Apiculture
- 44. Two popularly reared honey bees in India = Apis cerana indica and A. mellifera
- 45. European honey bee = Apis millifera
- 46. Calories in honey = 3500 calories per kg
- 47. Stocking density of composite fish culture = 5000-7500 fingerlings per hectare
- 48. Depth of pond for raising fish =1.5-2 meter
- 49. Range of dissolved oxygen in fish pond = 5-7 ppm
- 50. Impotant species of fish = Catla Catla, Labeo rohita, Labeo calbasu, Silver carp, grass carp
- 51. Cultivation of mulberry is also called= moriculture
- 52. Types of silkworm = Mulberry silk worm (Bombyx mori); Eri silk worm (Philosoma ricini); Tasar silk worm (Anteraca mylina) and Muga silk worm (Antheraca assami)
- 53. Three types of mushroom popular in India= Oyster(Pleurotus spp.), Paddy straw (Volvariella volvaceae) and white button (Agaricus bisporus)
- 54. Mushrooms are rich source of = Vitamin B and Vitamin C
- 55. Yield from one bag of oystermushroom = 0.5-1 kg/bag
- 56. Optimum temperature for oyster =  $22-28^{\circ}$  C
- 57. Time of soaking for oyster mushroom= 4-6 hours
- 58. Length of straw in oyster mushroom should be = 3-5 cm
- 59. Yield from one bag of paddy straw mushroom = 1-1.5 kg/bag
- 60. Optimum temperature for paddy straw mushroom = 30-35° C
- 61. Time of soaking for paddy straw mushroom= 12 hours
- 62. Length of straw for paddy straw mushroom should be = 60-90 cm
- 63. Optimum temperature and RH for button mushroom=22-25°C and 90-95%
- 64. Yield of button mushroom =  $6-7 \text{ kg/m}^2$

- 65. Cropping duration of button mushroom = 60-75 days
- 66. Agri-silviculture = Crops+trees
- 67. Agri-horticulture = Crops + fruit trees
- 68. Silvi-pasture = Trees+pasture+animals
- 69. Agri-horti-silviculture = crops+fruit trees + multi purpose trees (MPT) +pasture
- 70. Agri-silvi-pasture= crops+ trees +pasture
- 71. Silvi-apiculture = trees + honey bees
- 72. Two main designs of a biogas plant = Float dome type and Fixed dome type
- 73. Float dome shaped = KVIC vertical and horizontal, pragati model, ganesh model
- 74. Fixed dome type = Janata and Deen-Bandhu
- 75. 1cc capacity plant requires = 2-3 animals and 25 kg dung
- 76.  $2m_3$  plant is sufficient to meet the needs of = 6-10 members
- 77. Gas production is maximum at = 30-35°C
- 78. Slurry produced after production of biogas = Bio-gas slurry
- 79. The conversion of crop yield into one form to compare the crops in mixed/ inter sequentially cropped is called= Crop equivalent yield
- 80. The relative land area under sole crop that is required to produce the yields achieved in inter-cropping = Land Equivalent Ratio (LER)
- 81. If LER is more than 1.0 it means intercropping is = profitable
- 82. If LER is less than 1.0 it means that the intercropping is = not profitable
- 83. Relative crowding co-efficient is less than one=less yield
- 84. Relative crowding co-efficient is more than one = More yield
- 85. Relative crowding co-efficient assumes mixture treatments from = Replacement series
- 86. It assumes that mixture from a replacement series and it gives a simple measure how much the relative yield increases in species a is greater than that for species b is known as = Aggressivity
- 87. A cropping system in which the same crop is grown year after year in the same field = Monocropping
- 88. Taking two crops in a year in year from same piece of land is called = double cropping
- 89. Growing two or more crops consecutively on the same field in the same year is called = multiple cropping
- 90. Crop sown broadcasted in the standing crop of lowland rice before its harvest where the residual moisture is used for the establishment of sown crop is called = Paira/utera cropping
- 91. For getting 10% advantage the LER should be = 1.10
- 92. For getting 20 % advantage the LER should be = 1.20
- 93. Rice-Rice rotation indicates=Monoculture
- 94. Growing of coconut, blackpepper and ginger simultaneously in the same field is called = Multistoried cropping
- 95. It is farming enterprise which provides food and commodities just sufficient to farming family and there is no surplus to sell = Subsistence farming

- 96. A crop which is grown under certain problematic condition when no other crop can be grown as floating rice in flood prone areas is called = Subsistence crop
- 97. Growing two and more crops in different strips simultaneously wide enough to permit independent cultivation but narrow enough for crop to interact agronomically is called = Strip intercropping
- 98. The type farming aiming at maximum output per unit area = Intensive farming
- 99. The type of farming aiming at maximum output from large patches = Extensive farming
- 100. It refers to livestock production along with usually cultivated crops = Mixed Farming
- 101. Land holding in India to get qualified for large scale farming is = 40-50 ha
- 102. Farm in which 50% or more income of total crop production is derived from a single crop is called = specialised farming
- 103. Growing of field crops in rotation with grasses and fodder legumes is called = Lay farming
- 104. Farming in which more than 50% of produce is for sale = commercial farming
- 105. Farming in which more than 50% of produce is for home consumption = partly commercial farming
- 106. Farming in which there is no sale of crop or animal product and 100% produce if for home consumption is called = Subsistence farming