c. Susceptible

c. Propagules.

M.Sc. BOTANY FOURTH SEMESTER ORGANIC FARMING & NURSERY MANAGEMENT

MSB-405 MDC

d. Does not effect

d. All of the above

(Use Separate Answer Scripts for Objective & Descriptive) Full Marks: 70 Duration: 3 hrs. [PART-A: Objective] Marks 20 Time: 20 min.

Choose the correct answer from the following:

1X20 = 20

- Propagation of plants from very small plant parts called explants, found in b. Cutting a. Grafting d. Micropropagation. c. Budding 2. Organically grown plants are more drought a. Tolerant b. Resistant
- 3. Weed management is possible through the organic method a. Leaf manure b. Biofertilizer

c. Crop rotation d. All of these

- 4. The Nursery Management Information System (NMIS) was first designed a. 1970 b. 1971 c. 1965 d. 1960
- 5. Rhizobium is b. Free-living bacteria a. Symbiotic bacteria
- d. None of the above c. Endophytic bacteria Input in the nursery isb. Nursery media, a. Containers,
- Plants show vegetative propagation through roota. Agave and Oxalis b. a and d d. mint plants. c. sweet potato, Asparagus, and Dahlia
- 8. Which of the following is a commonly used earthworm species for the vermicomposting process?
 - b. Perionix excavatus a. Eisenia fetida d. None of these c. Both (a) and (b)
- 9. Vermicompost is used as a biofertilizer because it is rich in_ b. Nitrogen a. Calcium d. All of these c. Phosphorus

10.	What materials may be composted a. Sod c. hedge	b. Hay d. All of these
11.	The part which becomes the lower portion that a. Stock c. Bud	nat includes the root is called as b. Scion d. Both a and b
12.	Carbon to nitrogen ratios in cow manure is a. 20:1 c. 15:1	b. 10:1 d. 7:1
13.	Which one is not a green manure crop a. Sorghum c. Soybean	b. Sun hemp d. Millet
14.	Compost worms need which things for their a. A food source c. Adequate moisture	proper growth b. Bedding materials d. All of these
15.	Mulching is not used to a. To increase soil fertility c. To control weed	b. To conserve moisture d. To maintain soil temperature
16.	Which one is not included in gardening skill a. Soil testing c. punning	lls b. composting d. Harvesting
17.	AM fungi establish symbiotic associations w a. 40% c. 50%	ith almost of plants b. 80% d. 70%
18.	Captan can is a a Pesticides c. Biofertilizers	b. Fungicides d. A and c
19.	The most quickly available source of nitroge a. Amide fertilizers c. Nitrate fertilizers	n to plants are b. Ammonia fertilizers d. Ammonia nitrate fertilizers
20.	 What should be added to increase the efficie a. Calcium c. Phosphorous 	ncy of biofertilizer? b. Potassium d. Zinc

(PART-B: Descriptive)

Marks:50

Time: 2 hrs. 40 min.

[Answer question no.1 & any four (4) from the rest]

1.	What is a biofertilizer? Write the advantages of biofertilizers over chemical fertilizers. List a few biofertilizers.	2+5+3 =10
2.	Briefly discussed the role of crop rotation in soil health management.	10
3.	Define Nursery. Write its role and in what ways a nursery helps in generating employment.	3+7=10
4.	What is Organic Farming? Write the environmental benefits of organic farming	2+8=10
5.	Write briefly about a layout of a nursery and the online nursery information and sales system.	6+4=10
6.	Write a short note on a. PGPR b. Rhizobium	5+5=10
7.	Short notes: a. green manuring, b. components of nursery	5+5=10
8.	Write the procedure of making vermicompost.	10