SP-III/Botany/304SEC-1(T)/19

B.Sc. Semester III (Programme) Examination, 2018-19 BOTANY

Course ID: 31310 Course Code: SPBOT-304SEC-1(T)

Attempt any one Alternative.

Alternate-I

Course Title: Biofertilizers

Time: 1 Hour Full Marks: 40

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer *any forty* from the following questions: $1 \times 40 = 40$ 1. Application of blue green algae in field as biofertilizer called (a) Algalization (b) Collonization (c) Inoculation (d) Fructification 2. Nitrogen fixation site is (b) Akinete (a) Hormogone (c) Nanocyst (d) Heterocyst **3.** Fogg's medium is used for growing (a) Cyanobacteria (b) Rhizobium (c) Azotobacter (d) Azospirillum **4.** Okon's medium is used for mass cultivation of (a) Rhizobium (b) Azospirillum (d) Anabaena (c) Azotobacter **5.** *Rhizobium* is identified by (a) VP test (b) Indole test (c) CRYEMA test (d) None of these **6.** Charcoal is used for making biofertilizer as (a) Sterilizer (b) Carrier (c) Food supplier (d) Remover 7. Rhizobium is a (a) Gram negative and aerobic (b) Gram negative and anaerobic (c) Gram positive and anaerobic (d) Gram positive and aerobic **8.** Which one is green manure/biofertilizer (b) Maize (a) Sesbaenia (c) Rice (d) Oat

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9.	Some BGA can be used as biofertilizer as (a) photosynthetic (b) growing everywhere	(b)	surrounded by mucilage
10.	(c) growing everywhere Leghaemoglobin is found in (a) Nodule	(b)	capable of fixing nitrogen Heterocyst
11.	(c) AkineteVermicompost is biofertilizer rich in(a) Phosphorus		All of these Calcium
	(c) Nitrogen		All of these
12.	Worm castings are rich in (a) Nitrogen (c) Calcium		Phosphorus All of these
13.	Which are uses a green manure? (a) Melilotus parviflora (c) Mangifera indica	` '	Hibiscus rosasinensis Sida cordifolia
14.	An organism which improves phosphorus (a) Actinomycete fungi	uptake is (b)	Rhizobium
15.	(c) AzospirillumWhich one of the following is not a biofer(a) Agrobacterium	tilizer?	Azotobacter Rhizobium
16.	(c) <i>Nostoc</i> An organism used as a biofertilizer for raise		Mycorrhiza
10.	(a) Nostoc (c) Azospirillum	(b)	Azotobacter Rhizobium
17.	Organic farming related statement is (a) Bt cotton is used to improve fertility of (b) Compost is used to improve fertility of (c) Compost is eco-friendly (d) Both (b) and (c) is correct		
18.	For making carrier based inoculants of <i>Rh</i> (a) Paddy straw (c) Water 	(b)	owing material is used: Charcoal CaCO ₃
19.	Rhizobium is grown on (a) Nutrient agar medium	(b)	YEM medium
20.	(c) MS mediumSelect the odd one with reference to biofer(a) Bacteria(c) Cyanobacteria	rtilizer.	Nitsch's medium Fungi Viruses

(3)

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32.	Aquatic fern which is an excellent biof	ertilizer				
	(a) Salvinia	(b)	Azolla			
	(c) Marsilea	(d)	Pteridium			
33.	VAM is important for					
	(a) Breaking dormancy	(b)	Phosphate mutation			
	(c) Water uptake	(d)	Retarding flowering			
34.	pH of vermiculture is kept at					
	(a) Alkaline		Acidic			
	(c) Neutral	(d)	Highly alkaline			
35.	. Leguminous plants able to fix atmospheric N_2 through symbiotic activity which is not correct: (a) Leghaemoglobin Scavenger					
	(b) Nitrogenase is insensitive to O_2					
	(c) Nodules act as sites for N ₂ -fixation					
	(d) Nitrogenase catalyzes the conversion of N ₂ to NH ₃					
36.	They help in increasing soil fertility					
	(a) Pseudomonas and cereals	(b)	Bacillus and Penicillium			
	(c) Salvinia and Marsilea	(d)	Nostoc and legumes			
37.	Association of roots of higher plants ar	_				
	(a) Mycorrhiza		Lichen			
	(c) Fern	(d)	Moss			
38.	Which bacteria secrete phosphatase?					
	(a) Frankia		Clostridium			
20	(c) Azotobacter	(a)	Pseudomonas			
39.	Which one is biofertilizer?	(1-)	DCMII			
	(a) VAM (c) CAM	• •	DCMU CMU			
40.	Starter culture means	(u)	CMO			
40.		sed for mass mi	ultiplication			
	(a) Broth culture containing bacteria used for mass multiplication(b) culture which is used for nodulation					
	(c) Inoculation of culture for making carrier base inoculant					
	(d) culture used for identification					
41.	Which one is correct statement?					
	(a) Biofertilizer is difficult to storage, difficulty in application.					
	(b) Biofertilizer is eco-friendly.					
	(c) Biofertilizer is more expensive.					
	(d) Both (a) and (b) is correct					

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42.	Which one is incorrect about fertilizer?					
	(a) It is nutrient specific	(b) It is water insoluble				
	(c) It is readily absorbed by the plant	(d) It is compact and easy to transport				
43.						
	(i) Manure contains large quantities of or					
	(ii) It halps in draining out of average of w	•				
	(iii) It helps in draining out of excess of wa(iv) It excessive use pollutes environment					
	•					
	(a) (i) and (iii)	(b) (i) and (ii)				
	(c) (ii) and (iii)	(d) (iii) and (iv)				
44.	Which one is not available in fertilizers?	4.) N I				
	(a) Nitrogen	(b) Phosphorus				
	(c) Iron	(d) Potassium				
	Altern	nate-II				
	Course Title: He	erbal Technology				
	Answer all the questions:	1×40=4	4 0			
1.	Which active constituent of Catharanthus ha	ave cardio protective activity?				
	(a) Vincristine	(b) Ajmalicine				
	(c) Serpentine	(d) All of these				
2.	Depending upon the natural origin drugs are	following type:				
	(a) 3	(b) 2				
	(c) 4	(d) None of these				
3.	The term Pharmacognosy was first used by					
	(a) Seydlar	(b) Derosne				
	(c) Berg	(d) None of these				
4.	The study of the action of drug is known as					
	(a) Pathology	(b) Pharmacology				
	(c) Pharmacognosy	(d) All of these				
5.	The scientific name of Fenugreek is					
	(a) Centella asiatica	(b) Saraca indica				
	(c) Trigonella-foenum-graecum	(d) All of these				
6.	Clerodendron phlomoidis is used as					
	(a) Cardioprotective agent	(b) Anti rheumatic agent				
	(c) Memory boostee agent	(d) All of these				

17. The useful part of Clerodendron phlomoidis for curing rheumatism—

(b) Root and bark

(d) All of these

(a) Root and leaf

(c) Flower and leaf