

- b) Pearl millet
d) Sorghum
13. The *Beauveria bassiana* is commercially available in market under trade name _____
a) Biolep
c) Biosep
b) Biosoft
d) Biobit
14. Biofertilizers can replace _____ % chemical fertilizer.
a) 25-30
c) 10-15
b) 35-40
d) 40-45
15. *Steinernema carpocapsae* is _____
a) Entomopathogenic fungi
c) Entomopathogenic bacteria
b) Entomopathogenic virus
d) Entomopathogenic nematode
16. The term mycorrhiza was taken from _____ language.
a) Latin
c) Greek
b) Roman
d) None
17. _____ mainly present in cereal plants.
a) *Azospirillum*
c) *Azotobacter*
b) *Acetobacter*
d) None of above
18. Slow growing rhizobia is known as _____
a) *Rhizobium*
c) *Rhizobia*
b) *Bradyrhizobium*
d) None of above
19. _____ ideal carrier material is necessary for the production of good quality of biofertilizer.
a) Press mud
c) Lignite
b) Charcoal
d) All of above
20. *Azolla* doubles its biomass in _____ days.
a) 5-7
c) 10-12
b) 3-5
d) 13-15

Q.2 Do as Directed.

A. Define the following. (Any five)

(05)

1. Biopesticides
2. Integrated pest management (IPM)
3. Symbiotic bacteria
4. Biofertilizers
5. Botanical insecticides
6. Predators
7. Biofertilization

B. Answer the following. (Any Five)

(05)

1. Mechanism of phosphate solubilization
2. What is Biological control?
3. Give name of two reference books?
4. Characteristics of ideal microbial insecticide
5. Advantages of biopesticides.
6. Write down properties of Pyrethrum
7. Give three examples of Entomopathogenic fungi.

Q.3 Write short notes. (Any five)

(10)

1. Scope of biopesticides.
2. Plant growth promoting rhizobacteria (PGPR)
3. Botanical insecticides
4. *Azolla* as biofertilizer
5. Microbial control
6. Methods of application of biofertilizers

Q.4 Attempt any Three/Long Questions/Example

(15)

1. Describe symptoms and mode of action of fungi, bacteria and virus.
2. Explain biofertilizers and give mass production technique of mycorrhizal biofertilizer.
3. Explain biopesticides and give mass production technique of *S/NPV*.
4. Explain *Bt*, its mode of action, symptoms and mass production.