

Anekant Education Society's
TULJARAM CHATURCHAND COLLEGE OF ARTS, SCIENCE AND COMMERCE,
BARAMATI
(AUTONOMOUS)
Question Bank, F.Y.B. Sc.
Semester-II, **Paper-II. BOT 1202**
APPLICATIONS OF BOTANY

Q.1) Answer in one sentence

(1/2 Marks)

- 1) Define Biofuel.
- 2) Give scientific name of plant which used in biodiesel production.
- 3) Give a number of recommended pesticides available in the market.
- 4) How many quantities used of pesticides per year in India?
- 5) Give full form of IPM.
- 6) Give source of Azadiractin?
- 7) Who discovered penicillin antibiotic?
- 8) Give any two plants used for biofuel production
- 9) Name any two fungi used in various industries.
- 10) Give botanical name of Gulvel
- 11) Give any two products of Aspergillus
- 12) Define biofertilizer
- 13) Give any two products of Penicillium
- 14) What is canning?
- 15) Define Churna.
- 16) Give any two commercial products of Amla.
- 17) Define Aristha.
- 18) Give types of fruits processing
- 19) Give name of symbiotic nodule forming bacterium.
- 20) Which arthropods acts a good example in biocontrol.
- 21) Give any two sources of Biocontrol.
- 22) What is basic aims of Integrated Pest Management?
- 23) Give name of fungi used bin mushroom cultivation.

- 24) Define biocontrol
- 25) Give name of fungi which commonly used as a biocontrol agent against soil borne pathogen.
- 26) Which fungi used in Industrial production of Citric acid and Gluconic acid?
- 27) Give botanical name of common Baker's and Brewer's yeast
- 28) Give non-symbiotic nitrogen fixating bacterium used in monocot crops.
- 29) What is fruit pulp?
- 30) What is Jelly?
- 31) What is squash?
- 32) Give name of preservative which is used in squash.
- 33) Give main ingredients of ketchup.

Short answer questions

- 1) Give scientific name of plant which used in biodiesel production.
- 2) Give a number of recommended pesticides available in the market.
- 3) Give non-symbiotic nitrogen fixating bacterium used in monocot crops.
- 4) Enlist the preservation methods with suitable example.
- 5) Enlist types of nitrogen fixing bio fertilizers.
- 6) What is IPM.
- 7) Enlist components of pest management system.
- 8) Which fungi used in Industrial production of Citric acid and Gluconic acid?
- 9) Enlist any four antibiotics which produced by fungi.
- 10) Give applications of *Trichoderma*.
- 11) Give importance of bio pesticides.
- 12) Give any two commercial significance of bio pesticides.
- 13) What is need of bio fertilizer.
- 14) Give two Commercial significance of bio fertilizer.
- 15) Write two commercial importance of *Amla* .
- 16) Write two commercial importance of *Aloe*.
- 17) Name the major species of *Rhizobium* use for leguminous crops as a bio fertilizers.

Q.2) Short notes

(4 Marks)

- 1) Nitrogen fixing biofertilizer
- 2) BGA biofertilizer
- 3) *Azolla* biofertilizer
- 4) Canning
- 5) Jam
- 6) Squash
- 7) Nutraceuticals
- 8) Medicinal uses of Adulsa
- 9) Bio pesticide
- 10) Medicinal uses of Shatavari.
- 11) Integrated Pest Management (IPM)
- 12) Indiaro
- 13) Fruit preservation
- 14) Cosmeceutical
- 15) Phosphate solubilizing biofertilizer
- 16) Products and applications of yeast
- 17) Fruit processing concept and need
- 18) Cold storage
- 19) Advantages of Pharmaceutical industries.
- 20) Commercial importance of Amla and Aloe.
- 21) Advantages of Biofuel.
- 22) Significance (need) of biofertilizer
- 23) Commercial significance of fruit processing industries.

Q.3) Short answer question

(6 Marks)

- 1) Give the sources of biofuel.
- 2) Explain the concept of Biofuel and its need.
- 3) Give a brief account of biodiesel production from castor

- 4) Give the commercial significance of bio-pesticides.
- 5) Describe in brief the various plant based products used for controlling pests.
- 6) Give an account of Indiaro with reference to its sources, properties and uses.
- 7) Give the importance of neem cake and Indiaro as bio-pesticide.
- 8) Describe process of root nodule formation and its structure in leguminous crops.
- 9) Comment on need and commercial significance of biofertilizers.
- 10) What is Rhizobium biofertilizer? Give its various advantages and application.
- 11) What do you mean by symbiotic nitrogen fixation? Explain the role of Rhizobium as a biofertilizer.
- 12) Explain how ketchup is prepared.
- 13) Explain various steps involved in making dried fruit chips.

Q.4) Long Answer Question

(12 Marks)

- 1) Explain the concept of biofuel with examples of biodiesel producing plant and comment on biofuel are ecofriendly.
- 2) What is biodiesel? Explain this are good option to use against fossil fuel.
- 3) What are BGA biofertilizer? Explain the concepts and add a note on their types and need.
- 4) Define Jam? Describe the procedure to prepare Jam.
- 5) What is Jelly? Explain steps involved in preparation of jelly.
- 6) Define Churna. Give its types, manufacture process and its uses with suitable examples.
- 7) Give detailed account of Gulvel with reference to botanical source, active principles and its medicinal uses.
- 8) Give detailed account of Aloe with reference to botanical source, active principles and its medicinal uses.
- 9) Give detailed account of Shatavari with reference to botanical source, active principles and its medicinal uses.
- 10) Explain in detailed cosmeceutical and nutraceutical industries products
- 11) Explain the role of fungi in different industries with suitable examples and its products
- 12) Why biofertilizers is a good source in agriculture against chemical fertilizers explain in detail