

**Biyani Girls College**

**Botany-II**

**Model test paper-A**

**Microbiology, mycology and plant pathology**

**Time allowed: 3hrs**

**Max.Marks=33**

**Q1. Give short answer of the following :-**

**18 X 0.5 = 9**

- \_\_\_\_\_ reported conjugation in bacteria.
- \_\_\_\_\_ crystallised T.M.V for the first time.
- \_\_\_\_\_ causes green ear disease of Bayra.
- The word virus in latin language means \_\_\_\_\_
- Solid root like underground mycelium is known as \_\_\_\_\_.
- The protein coat that encloses the viral genes is called \_\_\_\_\_.
- Name the protein present in the flagella of bacteria.
- In albugo the conidia develop in \_\_\_\_\_ order
- What is parasexuality?
- Name the class of fungi having dolipore septum?
- Which fungus causes covered smut of Barley?
- What is Basidio carp?
- Which duration is known as golden age of microbiology?
- Who discovered the first vaccine?
- Write one function each of pili and flagellum?
- Define Platmogamy?
- What is heterothallism?
- Write an importance of mycorrhiza?

**Q2.** Write short note on the following- (6)

- TMV
- Germ plasm theory of disease
- Vaccination

OR

Write short note on-

- Parasexuality
- Asco carp

**Q3.** Write an essay on economic and biological importance of cyanobacteria. (6)

OR

Write plant disease symptoms and control measures of rust and smut.

**Q4.** Describe life cycle of *Ustilago*. (6)

OR

Give illustrated account on disease recurrence of black rust of wheat in India.

**Q5.** Describe the structure of covered smut of Barley disease cycle and its control measures, give brief account on loose smut of wheat. (6)

OR

With the help of suitable diagram describe life cycle of *Agaricus*. Differentiate between black, yellow and brown rust?

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**Model test paper-B**

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**Max.Marks=33**

**Give short answer of the following :-**

**18 X 0.5 = 9**

- write name of alternative host of *puccinia graminis*.
- What is the reserve food material in fungi.
- Ergot is obtained from\_\_\_\_\_.
- Write causal organism of early blight of early blight of potato.
- Write name of joker of plant kingdom.
- Write name of fungi used in baking.
- Write importance of mycorrhiza.
- Give names of 2 antibiotics.
- Write name of an edible mushroom.
- What is heterothallism.
- Name the scientist who evidenced germ theory of disease.
- What is pasteurization?
- Name the class of genus peziza.
- Name one photosynthetic bacteria.
- Name plant disease caused by mycoplasma.
- Define transformation.
- Name a cup fungi.
- Define quorum sensing.

**Q 2** Write short note on following:-

**(6)**

- Economic importance of bacteria
- transduction in bacteria

Or

Write short on following:-

- a) economic importance of cyanobacteria
- b)scope of microbiology

**Q 3** Describe general characteristics features of fungi.

**(6)**

Or

what are plant disease. write disease symptoms and control measures of downy and powdery mildew.

**Q4** with the help of suitable diagram, describe the life cycle of albugo. Write in brief about the symptoms and control measures of white rust disease.

**(6)**

Or

Write short note on(any2):

- yeast
- rhizopus

**Q5**Write about stages of life cycle of *puccinia graminis* found on wheat plant. Describe briefly black rust disease of wheat.

**(6)**

Or

with the help of suitable diagrams ,describe life cycle of Alternaria. Give brief account of early blight of potato.