

# PYQSide

## NEET MICROBES IN HUMAN WELFARE — MICROBES AS BIOFERTILISERS — PYQS

Max. Marks: 72

Questions: 18

### Section A (MCQ)

**Q.1** Which of the following organisms cannot fix nitrogen?

- A. *Azotobacter*                      B. *Oscillatoria*  
C. *Anabaena*                         D. *Volvox*  
E. *Nostoc*

Choose the correct answer from the options given below: [NEET (UG) 2025]

- (1) B only    (2) E only    (3) A only    (4) D only

Scan or tap for the full solution



**Q.2** Select the mismatch :

[NEET 2017]

- (1) *Rhodospirillum*                      (2) *Anabaena*  
- Mycorrhiza                                - Nitrogen fixer  
(3) *Rhizobium* - Alfalfa    (4) *Frankia* - *Alnus*

Scan or tap for the full solution



**Q.3** Which one of the following microbes forms symbiotic association with plants and helps them in their nutrition? [AIPMT 2012 (Prelims)]

- (1) *Azotobacter*                      (2) *Aspergillus*  
(3) *Glomus*                                (4) *Trichoderma*

Scan or tap for the full solution



**Q.4** A nitrogen-fixing microbe associated with *Azolla* in rice fields is [AIPMT 2012 (Prelims)]

- (1) *Tolypothrix*                      (2) *Spirulina*  
(3) *Frankia*                                (4) *Anabaena*

Scan or tap for the full solution



**Q.5** Consider the following statements (A-D) about organic farming. Which of these statements are correct?

- A. Utilizes genetically modified crops like Bt cotton  
B. Uses only naturally produced inputs like compost  
C. Does not use pesticides and urea  
D. Produces vegetables rich in vitamins and minerals [AIPMT 2011 (Mains)]

- (1) (B) and (C) only

- (2) (B), (C) and (D)

- (3) (C) and (D) only

- (4) (A) and (B) only

Scan or tap for the full solution



**Q.6** Which one of the following is not a biofertilizer ? [AIPMT 2011 (Prelims)]

- (1) *Agrobacterium*                      (2) *Nostoc*  
(3) *Rhizobium*                                (4) Mycorrhiza

Scan or tap for the full solution



**Q.7** An organism used as a Biofertilizer for raising soyabean crop is : [AIPMT 2011 (Prelims)]

- (1) *Azotobacter*                      (2) *Azospirillum*  
(3) *Nostoc*                                (4) *Rhizobium*

Scan or tap for the full solution



**Q.8** Which one of the following helps in absorption of phosphorus from soil by plants? [AIPMT 2011 (Prelims)]

- (1) *Glomus*                                (2) *Rhizobium*  
(3) *Frankia*                                (4) *Anabaena*

Scan or tap for the full solution



**Q.9** An example of endomycorrhiza is - [AIPMT 2010 (Mains)]

- (1) *Nostoc*                                (2) *Rhizobium*  
(3) *Glomus*                                (4) *Agaricus*

Scan or tap for the full solution



**Q.10** The common nitrogen-fixer in paddy fields is - [AIPMT 2010 (Prelims)]

- (1) *Azospirillum*                      (2) *Frankia*  
(3) *Rhizobium*                                (4) *Oscillatoria*

Scan or tap for the full solution



**Q.11** Which one of the following is not used in organic farming ? [AIPMT 2010 (Prelims)]

- (1) Earthworm                      (2) *Oscillatoria*  
(3) Snail                                (4) *Glomus*

Scan or tap for the full solution



**Q.12** Which of the following is a symbiotic nitrogen fixer? [AIPMT 2009]

- (1) *Azotobacter* (2) *Frankia*  
(3) *Azolla* (4) *Glomus*

Scan or tap for the full solution



**Q.13** Which one of the following statements is correct? [AIPMT 2007]

- (1) Cyanobacteria such as *Anabaena* and *Nostoc* are important mobilizers of phosphates and potassium for plant nutrition in soil  
(2) Both *Azotobacter* and *Rhizobium* fix atmospheric nitrogen in root nodules of plants  
(3) At present it is not possible to grow maize without chemical fertilizers  
(4) Extensive use of chemical fertilizers may lead to eutrophication of nearby water bodies

Scan or tap for the full solution



**Q.14** A free living nitrogen-fixing cyanobacterium which can also form symbiotic association with the water fern *Azolla* is [AIPMT 2004]

- (1) *Tolypothrix* (2) *Chlorella*  
(3) *Nostoc* (4) *Anabaena*

Scan or tap for the full solution



**Q.15** Which of the following plants are used as green manure in crop fields and in sandy soils? [AIPMT 2003]

- (1) *Calotropis procera* and *Phyllanthus niruri*  
(2) *Dichanthium annulatum* and *Azolla nilotica*  
(3) *Saccharum munja* and *Lantana camara*  
(4) *Crotalaria juncea* and *Alhagi camelorum*

Scan or tap for the full solution



**Q.16** Which of the following is a true pair of biofertilizers? [AIPMT 2001]

- (1) *Nostoc* and legume  
(2) *Rhizobium* and grasses  
(3) *Salmonella* and *E. coli*  
(4) *Azolla* and BGA

Scan or tap for the full solution



**Q.17** Which aquatic fern performs nitrogen fixation? [AIPMT 2001]

- (1) *Azolla* (2) *Nostoc* (3) *Salvia* (4) *Salvinia*

Scan or tap for the full solution



**Q.18** Which aquatic fern is used to increase the yield in paddy crop? [AIPMT 2000]

- (1) *Salvinia* (2) *Isoetes* (3) *Marsilea* (4) *Azolla*

Scan or tap for the full solution



### ANSWER KEY

| Ques. | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8 | 9 | 10 | 11 |
|-------|----|----|----|----|----|----|----|---|---|----|----|
| Ans.  | 4  | 1  | 3  | 4  | 2  | 1  | 4  | 1 | 3 | 1  | 3  |
| Ques. | 12 | 13 | 14 | 15 | 16 | 17 | 18 |   |   |    |    |
| Ans.  | 2  | 4  | 4  | 4  | 4  | 1  | 4  |   |   |    |    |