

Yakeen NEET 2026

Practice Sheet

Botany By Rupesh Chaudhary Sir

Biological Classification

Q1 Which of the following is **false** about ascomycetes?

- (A) Mode of nutrition is saprophytic, decomposer, coprophilous (growing on dung) or parasitic.
- (B) Includes unicellular (e.g. yeast) and multicellular forms.
- (C) Mycelium is coenocytic.
- (D) *Aspergillus*, *Claviceps*, and *Neurospora* are important members of Ascomycetes.

Q2 In members of which kingdom membrane bound organelles are **absent**.

- (A) Monera
- (B) Protista
- (C) Fungi
- (D) Plantae

Q3 Red oceanic tides can be due to;

- (A) diatoms.
- (B) dinoflagellates.
- (C) red algae.
- (D) blue-green algae.

Q4 Identify the type of bacteria in the given diagram:



- (A) Bacilli
- (B) Cocci
- (C) Vibrio
- (D) Spirilla

Q5 Find the **mismatched** pair.

- (A) Prions – consists of abnormally folded nucleoprotein
- (B) Slime moulds – spore possess true walls
- (C) Pellicle layer – proteinaceous
- (D) Bacteria – produce spores in unfavorable conditions.

Q6 Class sporozoan of phylum protozoan is characterised by:

- (A) flagella.
- (B) cilia.
- (C) pseudopodia.
- (D) infectious spores-like stage.

Q7 Which of the following is an edible 'Fungi' ?

- (A) *Mucor*
- (B) *Penicillium*
- (C) *Agaricus*
- (D) *Rhizopus*

Q8 Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R:

Assertion A: Euglenoids, a member of Kingdom Protista, lack a true cell wall instead of that they contain a protein rich layer.

Reason R: Under suitable conditions, euglenoids form an aggregation called plasmodium.

In the light of the above statements, choose the **correct** answer from the options given below:

- (A) A is true but R is false.
- (B) A is false but R is true.
- (C) Both A and R are true and R is the correct explanation of A.



(D) Both A and R are true but R is NOT the correct explanation of A.

Q9 Which of the following is the characteristic feature of ascomycetes?

- (A) Hyphae (B) Spores
(C) Zoospores (D) Ascospores

Q10 *Penicillium* belong to the class:

- (A) basidiomycetes.
(B) ascomycetes.
(C) phycomycetes.
(D) deuteromycetes.

Q11 Long, slender thread-like filaments of fungi are known as:

- (A) conidia. (B) mycorrhiza.
(C) sporangium. (D) hyphae.

Q12 The cell wall of fungi is made up of:

- (A) chitin. (B) cellulose.
(C) pectin. (D) suberin.

Q13 Bacteria also reproduce by a sort of sexual reproduction by adopting a primitive type of:

- (A) DNA transfer from one bacterium to the other.
(B) RNA transfer from one bacterium to the other.
(C) cell organelle transfer from one bacterium to the other.
(D) Mitochondria transfer from one bacterium to the other.

Q14 Given below are two statements:

Statement I: Basidiomycetes produces sexual spore exogenously.

Statement II: Coenocytic mycelium is found in *Penicillium*.

In the light of the above statements, choose the *most appropriate* answer from the options given below.

(A) Statement I is correct but Statement II is incorrect.

(B) Statement I is incorrect but Statement II is correct.

(C) Both Statement I and Statement II are correct.

(D) Both Statement I and Statement II are incorrect.

Q15 Proteinaceous covering in TMV is;

- (A) core. (B) capsid.
(C) viroid. (D) nucleoprotein.

Q16 Which statement is **wrong** for viruses?

- (A) They have ability to synthesise nucleic acids and proteins inside host cell.
(B) Antibiotic have no effect on them
(C) All are obligate parasites
(D) All of them have helical symmetry

Q17 Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R:

Assertion A: The two kingdom classification, used for a long time, was found to be inadequate.

Reason R: Two kingdom system of classification did not distinguish between the eukaryotes and prokaryotes, unicellular and multicellular organisms.

Choose the **correct** answer from the options given below.

(A) A is true but R is false.

(B) A is false but R is true.

(C) Both A and R are true and R is the correct explanation of A

(D) Both A and R are true but R is NOT the correct explanation of A.

Q18 Lichens show symbiotic relationship between;

- (A) algae and fungi.
(B) algae and bacteria.



- (C) fungi and bacteriophage.
(D) algae and bacteriophage.

Q19 Given below are two statements:

Statement I: AIDS in humans is caused by a viroid.

Statement II: T.O. Diener discovered a new infectious agent called viroid.

In the light of above statements, choose the most appropriate answer from the options given below:

- (A) Statement I is correct but Statement II is incorrect.
(B) Statement I is incorrect but Statement II is correct.
(C) Both Statement I and Statement II are correct.
(D) Both Statement I and Statement II are incorrect.

Q20 Viruses possess all the following properties, **except:**

- (A) they are non-cellular organisms.
(B) possess both DNA and RNA.
(C) capsid protects nucleic acid.
(D) have inert crystalline structure outside living cells.

Q21 Fungi which do not show sexual reproduction in their life cycle produce asexual spores:

- (A) conidia. (B) basidiospores.
(C) ascospores. (D) oospores.

Q22 Select the **incorrect** statement.

- (A) *Nostoc* and *Anabaena* have heterocysts for nitrogen fixation.
(B) Cyanobacteria often form blooms in polluted water bodies.
(C) Heterotrophic bacteria are more abundant in nature.
(D) The cell wall of mycoplasma are made up of chitin.

Q23 *Chlamydomonas* and *Spirogyra* were earlier placed together under _____.

- (A) monera (B) protista
(C) fungi (D) algae

Q24 Select the **incorrect** statements about slime moulds.

- A. They are saprophytic protists
B. Under suitable conditions, they form an aggregation called plasmodium.
C. The spores possess true walls.
D. The body moves along decaying twigs and leaves engulfing organic material.
E. The spores are dispersed by water currents.

Choose the most appropriate answer from the options given below:

- (A) A and E only (B) E only
(C) D and E only (D) C only

Q25 In Whittaker's five kingdom classification, eukaryotes are distributed among;

- (A) Four kingdoms (B) Three kingdoms
(C) Two kingdoms (D) Five kingdoms

Q26 Which feature is **not** related to Archaeobacteria?

- (A) Halophiles live in salty areas
(B) They show difference with eubacteria in cell wall structure
(C) Thermoacidophiles are found in hot springs
(D) Methanogens are present in hot springs

Q27 Match List-I with List-II.

List-I		List-II	
(A)	Coccus	(I)	Spherical shape
(B)	Bacillus	(II)	Rod shape
(C)	Vibrium	(III)	Spiral shape



(D)	Spirillum	(IV)	Comma shape
-----	-----------	------	-------------

Choose the **correct** answer from the options given below:

- (A) A-I, B-II, C-III, D-IV
 (B) A-I, B-II, C-IV, D-III
 (C) A-II, B-I, C-III, D-IV
 (D) A-II, B-I, C-IV, D-III

Q28 Pollution indicator among the following are;

- (A) Lichen
 (B) Blue green algae
 (C) Diatoms
 (D) All of these

Q29 Algal component of lichen is called;

- (A) Phycobiont
 (B) Mycobiont
 (C) Mycorrhiza
 (D) Lichen

Q30 Select the **incorrect** statement w.r.t diatoms.

- (A) Cell wall embedded with silica.
 (B) Cell walls form two thin overlapping shells.
 (C) Diatoms belongs to chrysophytes.
 (D) Diatoms are found only in marine environments.

Q31 Desmids are the protists that belong to the group called:

- (A) chrysophytes.
 (B) dinoflagellates.
 (C) euglenoids.
 (D) slime moulds.

Q32 Given below are two statements:

Statement I: Bacteria are the most abundant micro-organisms.

Statement II: Hundreds of bacteria are present in a handful of soil.

In the light of above statements, choose the **correct** answer from the options given below:

- (A) Statement I is correct but Statement II is incorrect.
 (B) Statement I is incorrect but Statement II is correct.
 (C) Both Statement I and Statement II are correct.
 (D) Both Statement I and Statement II are incorrect.

Q33 Chief producers in the oceans are:

- (A) Euglenoids
 (B) Dinoflagellates
 (C) Diatoms
 (D) Slime moulds.

Q34 Select the **correct** statement w.r.t characteristic features of the kingdoms.

- (A) In animalia, the mode of nutrition is autotrophic.
 (B) In monera, the nuclear membrane is absent.
 (C) In fungi, the lichens are included.
 (D) In plantae, prokaryotic non-chlorophyllous organism are included.

Q35 Match **List-I** with **List-II**.

List-I		List-II	
(A)	Viroids	(I)	Mad cow disease in cattle
(B)	Bacteriophage	(II)	Single stranded RNA virus
(C)	Prions	(III)	Potato spindle tuber disease
(D)	Tobacco Mosaic Virus	(IV)	Double stranded



			DNA
--	--	--	-----

Choose the **correct** answer from the options given below.

- (A) A-II, B-IV, C-III, D-I
 (B) A-I, B-II, C-III, D-IV
 (C) A-III, B-IV, C-I, D-II
 (D) A-III, B-IV, C-II, D-I

Q36 Which bacteria help in oxidising inorganic substances?

- (A) Chemosynthetic autotrophic bacteria
 (B) Autotrophic bacteria
 (C) Cyanobacteria
 (D) Heterotrophic bacteria

Q37 Black (stem) rust of wheat is caused by

- (A) *Alternaria*
 (B) *Ustilago*
 (C) *Puccinia*
 (D) *Rhizopus*

Q38 _____ are the smallest living cells known and can survive without oxygen.

- (A) Mycoplasma (B) Protista
 (C) *Nostoc* (D) *Anabaena*

Q39 Potato spindle tuber disease is caused by:

- (A) viroids. (B) prions.
 (C) fungi. (D) lichens.

Q40 Read the following statements regarding methanogens.

- (i) They are included in the group archaebacteria
 (ii) They are responsible for the production of biogas from the cows dung.
 (iii) They live in hot springs.
 (iv) They are strictly anaerobic

Choose the **correct** statements and answer from the options given below.

- (A) Only (i) and (ii) are correct
 (B) Only (i), (ii) and (iv) correct

- (C) Only (ii), (iii) and (iv) are correct
 (D) All (i), (ii), (iii) and (iv), are correct

Q41 Which of the following pairs belongs to the same kingdom?

- (A) Mycoplasma and *Euglena*
 (B) Golden algae and blue green algae
 (C) Toadstool and *Albugo*
 (D) *Gonyaulax* and *Alternaria*

Q42 Select the pair that consists of suggestion bacterial diseases.

- (A) Cholera and typhoid
 (B) Citrus canker and mumps
 (C) Malaria and influenza
 (D) Herpes and tetanus

Q43 Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R:

Assertion A: Diatomaceous earth is formed from the accumulation of diatom cell walls.

Reason R: The cell wall of diatoms has stiff cellulose plates on the outer surface.

In the light of the above statements, choose the **correct** answer from the options given below:

- (A) A is true but R is false.
 (B) A is false but R is true.
 (C) Both A and R are true and R is the correct explanation of A.
 (D) Both A and R are true but R is NOT the correct explanation of A.

Q44 Which among the following does **not** belong to kingdom Monera?

- (A) Slime moulds (B) Mycoplasma
 (C) Eubacteria (D) Archaebacteria

Q45 Which of the following statements is **false** about protozoans?

- (A) All protozoans are autotrophs.



- (B) Sporozoans include organisms like *Plasmodium*, which causes malaria.
- (C) Ciliated protozoans have a gullet for feeding.

- (D) A parasitic form of flagellated protozoans cause disease like sleeping sickness.



Answer Key

Q1 (C)
Q2 (A)
Q3 (B)
Q4 (C)
Q5 (A)
Q6 (D)
Q7 (C)
Q8 (A)
Q9 (D)
Q10 (B)
Q11 (D)
Q12 (A)
Q13 (A)
Q14 (A)
Q15 (B)
Q16 (D)
Q17 (C)
Q18 (A)
Q19 (B)
Q20 (B)
Q21 (A)
Q22 (D)
Q23 (D)

Q24 (B)
Q25 (A)
Q26 (D)
Q27 (B)
Q28 (A)
Q29 (A)
Q30 (D)
Q31 (A)
Q32 (C)
Q33 (C)
Q34 (B)
Q35 (C)
Q36 (A)
Q37 (C)
Q38 (A)
Q39 (A)
Q40 (B)
Q41 (C)
Q42 (A)
Q43 (A)
Q44 (A)
Q45 (A)

