

## Yakeen NEET 2.0 (2026)

## Botany By Rupesh Chaudhary Sir

## Cell - The Unit of Life

DPP: 2

**Q1** Longest cell in our body is nerve fibre. The smallest is of:

- (A) Human sperm
- (B) Eye
- (C) Kidney and Intestine
- (D) Blood

**Q2** What is the average size of most cells?

- (A) 10 cm
- (B) Approximately 2.5 cm
- (C) Less than 0.5 mm
- (D) Between 4 and 8  $\mu\text{m}$  (micrometres)

**Q3** Arrange the following cells in an ascending order of their sizes

- I. Mycoplasma
- II. Ostrich egg
- III. Human RBC
- IV. Bacteria

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

**Q4** How many basic shapes do the bacteria have?

- (A) 3
- (B) 4
- (C) 5
- (D) 6

**Q5** Which of the following is **incorrect**?

- (A) Smallest cell  $\rightarrow$  Mycoplasma
- (B) Smallest cell  $\rightarrow$  Bacteria
- (C) Largest single cell  $\rightarrow$  Ostrich's egg
- (D) None of these

**Q6** Prokaryotic cell does **not** have:

- (A) nucleolus.
- (B) membrane bound organelles.
- (C) centrioles.
- (D) All of these

**Q7**

Which of the following structures is **not** found in a prokaryotic cell?

- (A) Nuclear envelope
- (B) Ribosome
- (C) Mesosome
- (D) Plasma membrane

**Q8** An example of a prokaryotic cell is:

- (A) blue-green algae.
- (B) Pleuro Pneumoniae Like Organism(PPLO)
- (C) Mycoplasma
- (D) All of these

**Q9** The main difference between prokaryotic and eukaryotic cell is that in the prokaryotic cell there is no:

- I. nucleus with a nuclear membrane.
- II. mitochondria and chloroplasts.
- III. cell wall.
- IV. genetic material.

- (A) Only I
- (B) Only II
- (C) I and II
- (D) I and III

**Q10** The shape of human red blood cell is:

- (A) round and biconcave.
- (B) flat and thread like.
- (C) irregular.
- (D) round and oval.

**Q11** Different cells have different sizes. Arrange the following cells in an ascending order of their size. Choose the **correct** option among the followings.

- I. Mycoplasma
- II. Ostrich eggs
- III. Human RBC
- IV. Bacteria
- (A) I  $\rightarrow$  IV  $\rightarrow$  III  $\rightarrow$  II
- (B) I  $\rightarrow$  II  $\rightarrow$  III  $\rightarrow$  IV
- (C) II  $\rightarrow$  I  $\rightarrow$  III  $\rightarrow$  IV



(D) III → II → I → IV

**Q12** Which of the following cell has a diameter of 7 micrometre?

- (A) Erythrocyte
- (B) Monocyte
- (C) Neuron
- (D) Blood platelets

**Q13** Which of the following is not a part of cell envelope in bacterial cell?

- (A) Plasma membrane
- (B) Cell wall
- (C) Glycocalyx

(D) Nucleoid

**Q14** Which among the following is/are **not** found in the prokaryotic cells?

- (A) Mesosomes
- (B) Inclusion bodies
- (C) Perinuclear space
- (D) Ribosomes

**Q15** What is **not** true about mesosomes?

- (A) Have role in cell wall formation
- (B) Have role in cellular respiration
- (C) Help in DNA replication
- (D) Help in protein formation



## Answer Key

Q1 (A)  
Q2 (D)  
Q3 (B)  
Q4 (B)  
Q5 (B)  
Q6 (D)  
Q7 (A)  
Q8 (D)

Q9 (C)  
Q10 (A)  
Q11 (A)  
Q12 (A)  
Q13 (D)  
Q14 (C)  
Q15 (D)



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