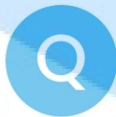




## QUIZZES

### Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



30 Questions



25 min

#### Topics

Bacteria (Size and Shape), Bacterial Cell Structures, Nutrition in bacteria, Respiration in bacteria, Reproduction in bacteria, Importance and control of bacteria, Protozoa, Algae, Nutrition and Reproduction in Fungi, Classification of Fungi, Importance of Fungi

Start Quiz

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24 : 58



1/30



25 min



Hint

Q : What is true about pleomorphic bacteria?



All are autotrophs



Have spherical shape



Only seen in one shape



Exist in variety of shapes

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24 : 56



2/30



25 min



Hint

Q : Eight cocci in a single plane will form:



Streptococci



Tetrad



Sarcina



Staphylococci

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24 : 54



3/30



25 min



Hint

Q : One, which is not present in bacterial cells?



Microtubules



Nucleoid



Cytosol



Glycogen

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24 : 52



4/30



25 min



Hint

Q : These are extremely thin, hair like appendages found in bacteria:



Cilia



Flagella



Pili



Fimbriae

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24 : 51



5/30



25 min



Hint

Q : Bacterial flagella originate from:



Cell wall



Cell membrane



Basal body



Cytoskeleton

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24 : 49



6/30



25 min



Hint

Q : Fimbriae are usually:



Hair like thin appendages



Cell wall extensions in bacteria



Made up of flagellin protein



Hollow filamentous appendages

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24 : 47



7/30



25 min



Hint

Q : Strengthening material of bacterial cell wall is:



Cutin



Murein



Sterol



Lignin

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24 : 45



8/30



25 min



Hint

Q : Bacterial cell wall is responsible for:



Respiratory metabolism



Control of transport



Prevention of osmotic lysis



Formation of mesosomes

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24 : 43



9/30



25 min



Hint

Q : All of the following are similarities of DNA in plasmid and nucleoid except:



Both are circular



Both are double stranded



Both contain genes



Both are involved in growth

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24 : 40



10/30



25 min



Hint

Q : Mesosomes are infoldings of the cell membrane and are involved in:



DNA replication



RNA synthesis



Protein synthesis



Antibiotic resistance

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24 : 37



11/30



25 min



Hint

Q : Which one in bacterial cell is not a waste?



Alcohol



Phosphate



Lactic acid



Acetic acid

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24 : 36



12/30



25 min



Hint

Q : Bacterial spores are specialized for:



Survival



Asexual reproduction



Sexual reproduction



Both survival & reproduction

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24 : 33



13/30



25 min



Hint

Q : Bacteria having more peptidoglycan in their cell wall as compared to others are:



Mycoplasma



Archaeobacteria



Gram positive bacteria



Gram negative bacteria

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24 : 30



14/30



25 min



Hint

Q : CV-I complex is retained during Gram staining in:



Mycoplasmas



Gram positive



Gram negative



Archeobacteria

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24 : 28



15/30



25 min



Hint

Q : *Mycobacterium tuberculosis* is an example of:



Saprotrophic bacterium



Parasitic bacterium



Photosynthetic bacterium



Chemosynthetic bacterium

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24 : 26



16/30



25 min



Hint

Q : These are anaerobic bacteria:



Spirochetes



*E. coli*



*Campylobacter*



*Pseudomonas*

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24 : 24



17/30



25 min



Hint

Q : It is a phase of bacterial growth where death rate is equal to rate of reproduction:



Lag phase



Log phase



Stationary phase



Decline phase

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24 : 22



18/30



25 min



Hint

Q : Halogens, phenols, hydrogen peroxide and potassium permanganate are examples of:



Preservatives



Disinfectants



Antiseptics



Chemotherapeutic agents

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24 : 20



19/30



25 min



Hint

Q : Gamma rays are commonly used for:



Disinfection



Antisepsis



Sterilization



Pasteurization

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24 : 18



20/30



25 min



Hint

Q : In liver of human, which type of plasmodial cells develop during its disease cycle?



Sporozoites



Merozoites



Gametes



Oocysts

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24 : 14



21/30



25 min



Hint

Q : Specific locomotory structures are not present in:



Ciliates



Zooflagellates



Foraminiferans



Apicomplexans

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24 : 11



22/30



25 min



Hint

Q : Which of the following photosynthetic pigment is not present in all algae?



Chlorophyll a



Carotenoids



Chlorophyll b



All are present

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24 : 09



23/30



25 min



Hint

Q :

Pick the multicellular example of algae:

A

*Acetabularia*

B

*Chlorella*

C

*Ulva*

D

*Euglena*

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24 : 07



24/30



25 min



Hint

Q : In a typical lichen, visible part is always formed by:



Soredia



Fungal hyphae



Photoautotroph



Algae

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24 : 05



25/30



25 min



Hint

Q : Group of fungi that is associated with most of the lichens is:



Deuteromycota



Ascomycota



Basidiomycota



Zygomycota

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24 : 03



26/30



25 min



Hint

Q : One feature which is common in ascomycetes and basidiomycetes:



Both have short dikaryotic phase



Both forms asexual conidia



Both have septate hyphae



Both develops from embryo

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24 : 00



27/30



25 min



Hint

Q : Black spores of *Ustilago tritici* on wheat plants are dispersed by:



Air



Water



Insects



Air moisture

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23 : 58



27/30



25 min



Hint

Q : Black spores of *Ustilago tritici* on wheat plants are dispersed by:



Air



Water



Insects



Air moisture

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23 : 56



28/30



25 min



Hint

Q : *Penicillium* having all of following characters except:



They reproduce sexually



They reproduce by forming conidia



They have septate hyphae



They have branched mycelium

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23 : 53



29/30



25 min



Hint

Q : Which of the following drug can be used to cure ring worm?



Griseofulvin



Lovastation



Penicillin



Cyclosporine

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23 : 50



30/30



25 min



Hint

Q : The most commonly studied yeast is:

A

*Physarrum polycephalum*

B

*Saccharomyces cerevisiae*

C

*Phytophthora infestan*

D

*Rhodotorula*

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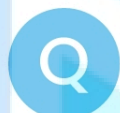
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## QUIZ RESULT

Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



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25 min



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Result Detail

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Biology

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



1/30

Q : What is true about pleomorphic bacteria?

A

All are autotrophs

B

Have spherical shape

C

Only seen in one shape

D

Exist in variety of shapes

### Explanation

In microbiology, pleomorphism is the ability of some microorganisms to alter their morphology, biological functions or reproductive modes in response to environmental conditions.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



2/30

Q : Eight cocci in a single plane will form:

A

Streptococci

B

Tetrad

C

Sarcina

D

Staphylococci

### Explanation

- Sarcina is a cube of eight cocci in three planes.
- Tetrad is square of four cocci in two planes.
- *Staphylococci* are an arrangement of cocci in irregular, often grape like clusters which occurs in random plan wise.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



3/30

Q : One, which is not present in bacterial cells?

A

Microtubules

B

Nucleoid

C

Cytosol

D

Glycogen

Explanation

As there is no need of support of organelle in cytoplasm of bacteria so microtubules are not present in bacterial cells.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



4/30

Q : These are extremely thin, hair like appendages found in bacteria:

A

Cilia

B

Flagella

C

Pili

D

Fimbriae

### Explanation

Flagella

Thin, Helical, Hair like appendages

Pili, Fimbriae

Thin, Non-helical, Hollow

Cilia

Not present

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



5/30

Q : Bacterial flagella originate from:

A

Cell wall

B

Cell membrane

C

Basal body

D

Cytoskeleton

### Explanation

Basal bodies are structures found at base of flagella which give rise to flagella.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



6/30

Q : Fimbriae are usually:

A

Hair like thin appendages

B

Cell wall extensions in bacteria

C

Made up of flagellin protein

D

Hollow filamentous appendages

Explanation

Fimbriae are involved in attachment with host surface.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



7/30

Q : Strengthening material of bacterial cell wall is:

A

Cutin

B

Murein

C

Sterol

D

Lignin

### Explanation

Murein also called as peptidoglycan is main component of bacterial cell wall. Cutin and sterol are not found in any cell wall. Lignin is found in plant cell wall.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



8/30

Q : Bacterial cell wall is responsible for:

A

Respiratory metabolism

B

Control of transport

C

Prevention of osmotic lysis

D

Formation of mesosomes

Explanation

Prevention of osmotic lysis is the function of cell wall.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



9/30

Q : All of the following are similarities of DNA in plasmid and nucleoid except:

A

Both are circular

B

Both are double stranded

C

Both contain genes

D

Both are involved in growth

### Explanation

- Nucleoid has role in growth and metabolism.
- Plasmid usually develops resistance in bacteria.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



10/30

Q : Mesosomes are infoldings of the cell membrane and are involved in:

A

DNA replication

B

RNA synthesis

C

Protein synthesis

D

Antibiotic resistance

### Explanation

Mesosome has role in DNA replication, respiration and exocellular transport of ions.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



11/30

Q : Which one in bacterial cell is not a waste?

A

Alcohol

B

Phosphate

C

Lactic acid

D

Acetic acid

Explanation

Phosphates are nutrients stored in bacterial cells.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



12/30

Q : Bacterial spores are specialized for:

A

Survival

B

Asexual reproduction

C

Sexual reproduction

D

Both survival & reproduction

Explanation

Under favourable conditions, when spore coat bursts, only one bacterium is released.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



13/30

Q : Bacteria having more peptidoglycan in their cell wall as compared to others are:

A

Mycoplasma

B

Archaeobacteria

C

Gram positive bacteria

D

Gram negative bacteria

### Explanation

	Gram positive bacteria	Gram negative bacteria
<b>Peptidoglycan</b> of dry weight	50% of dry weight	10%
<b>Outer membrane</b>	No	Yes
<b>Periplasmic space</b> Present in all	Present in some	
<b>Permeability</b> Less permeable	More permeable	

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



14/30

Q : CV-I complex is retained during Gram staining in:

A

Mycoplasmas

B

Gram positive

C

Gram negative

D

Archeobacteria

### Explanation

Gram positive bacteria are stained purple with primary dye (Crystal violet & Gram's iodine) and retain the dye on treatment with alcohol. These stain forms CV-I complex which binds with peptidoglycan.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



16/30

Q : These are anaerobic bacteria:

A

Spirochetes

B

*E. coli*

C

*Campylobacter*

D

*Pseudomonas*

### Explanation

*Pseudomonas*

Aerobic

Spirochete

Anaerobic

*E. coli*

Facultative anaerobe

*Campylobacter*

Microaerophilic

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



17/30

Q : It is a phase of bacterial growth where death rate is equal to rate of reproduction:

A

Lag phase

B

Log phase

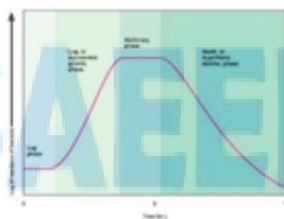
C

Stationary phase

D

Decline phase

Explanation



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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



18/30

Q : Halogens, phenols, hydrogen peroxide and potassium permanganate are examples of:

A

Preservatives

B

Disinfectants

C

Antiseptics

D

Chemotherapeutic agents

### Explanation

Disinfection is the use of chemicals. Chemicals that are used to disinfect non-living are called disinfectants while for living are called antiseptic. All these are disinfectants.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



19/30

Q : Gamma rays are commonly used for:

A

Disinfection

B

Antisepsis

C

Sterilization

D

Pasteurization

Explanation

Use of physical agents to kill microbes is called sterilization.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



20/30

Q : In liver of human, which type of plasmodial cells develop during its disease cycle?

A

Sporozoites

B

Merozoites

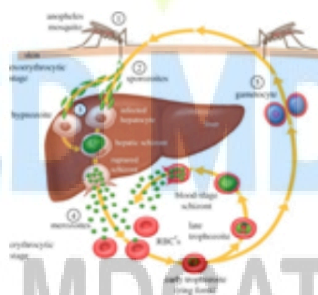
C

Gametes

D

Oocysts

Explanation



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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



21/30

Q : Specific locomotory structures are not present in:

A

Ciliates

B

Zooflagellates

C

Foraminiferans

D

Apicomplexans

### Explanation

Apicomplexans are parasitic group of organisms having no locomotory structures. They move by flexing.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



22/30

Q : Which of the following photosynthetic pigment is not present in all algae?

A

Chlorophyll a

B

Carotenoids

C

Chlorophyll b

D

All are present

### Explanation

Chlorophyll b is not present in dinoflagellates, diatoms, brown algae and red algae.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



23/30

Q :

Pick the multicellular example of algae:

A

*Acetabularia*

B

*Chlorella*

C

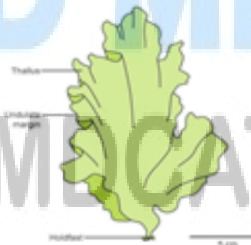
*Ulva*

D

*Euglena*

### Explanation

*Ulva* has a sheet like multicellular body, while all others are unicellular.



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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



24/30

Q : In a typical lichen, visible part is always formed by:

A

Soredia

B

Fungal hyphae

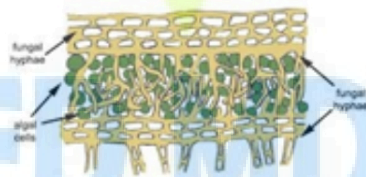
C

Photoautotroph

D

Algae

Explanation



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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



25/30

Q : Group of fungi that is associated with most of the lichens is:

A

Deuteromycota

B

Ascomycota

C

Basidiomycota

D

Zygomycota

### Explanation

Ascomycetes and imperfect fungi and a few basidiomycetes (only 20 out of 15000 species) are associated with fungi to make lichens. Sometime algae and cyanobacteria also make lichen with fungi.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



26/30

Q : One feature which is common in ascomycetes and basidiomycetes:

A

Both have short dikaryotic phase

B

Both forms asexual conidia

C

Both have septate hyphae

D

Both develops from embryo

### Explanation

Ascomycota and basidiomycota both have septate hyphae and lengthy dikaryotic phase.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



27/30

Q : Black spores of *Ustilago tritici* on wheat plants are dispersed by:

A

Air

B

Water

C

Insects

D

Air moisture

### Explanation

Spores of *Ustilago tritici* are carried by wind from infected wheat ears to healthy flowers, where they germinate.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



28/30

Q : *Penicillium* having all of following characters except:

A

They reproduce sexually

B

They reproduce by forming conidia

C

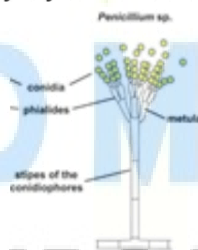
They have septate hyphae

D

They have branched mycelium

### Explanation

It reproduces asexually by conidia formation.



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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



29/30

Q : Which of the following drug can be used to cure ring worm?

A

Griseofulvin

B

Lovastation

C

Penicillin

D

Cyclosporine

### Explanation

Griseofulvin is very effective to cure athlete's foot, ringworm and scalp.

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## Unit Wise Test-4 (Prokaryotes, Protists and Fungi)



Correct



Unattempted



Incorrect



30/30

Q : The most commonly studied yeast is:

A

*Physarrum polycephalum*

B

*Saccharomyces cerevisiae*

C

*Phytophthora infestan*

D

*Rhodotorula*

### Explanation

*Saccharomyces cerevisiae* is used in molecular biological research. It is also first organism which is used in genetic engineering. In 1983, a functional artificial chromosome was made in it.

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