

MDCAT MCQS WITH EXPLANATION.

CHAPTER PROKARYOTES.

BIOLOGY.

MCQ's

Q1. An extra-chromosomal DNA ring in bacteria is called.

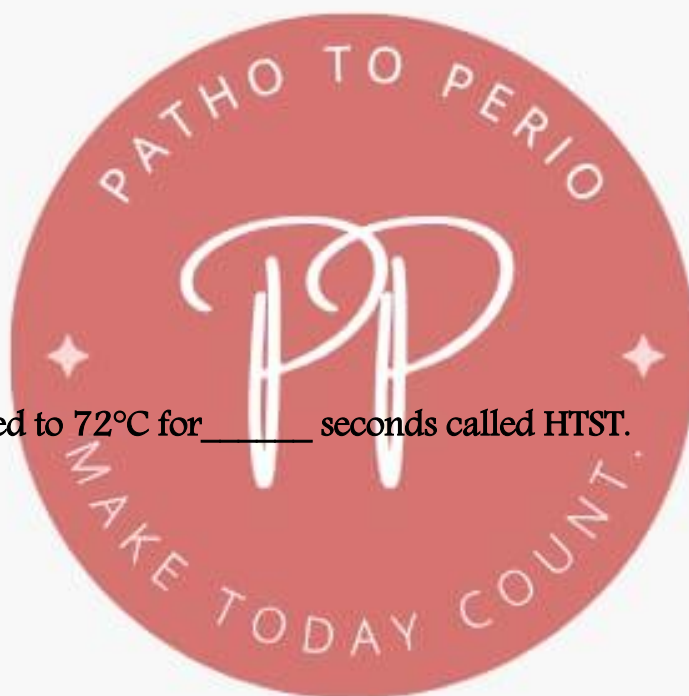
- a) Nucleoid
- b) Plasmid
- c) Pili
- d) Mesosome

Q2. Milk is exposed to 72°C for _____ seconds called HTST.

- a) 15
- b) 3
- c) 5
- d) 10

Q3. Flagella are made of.

- a) Proteins
- b) Carbohydrates
- c) Lipids



d) Calcium

Q4. Which of the following is not present in all bacteria?

a) Slim Capsule

b) Cell Wall

c) Both of these

d) Ribosomes

Q5. Which of these groups of bacteria are mostly atrichous?

a) Spicila

b) Coccus

c) Bassilus

d) All of these

Q6. The major function of slim capsule is.

a) Pathogenicity

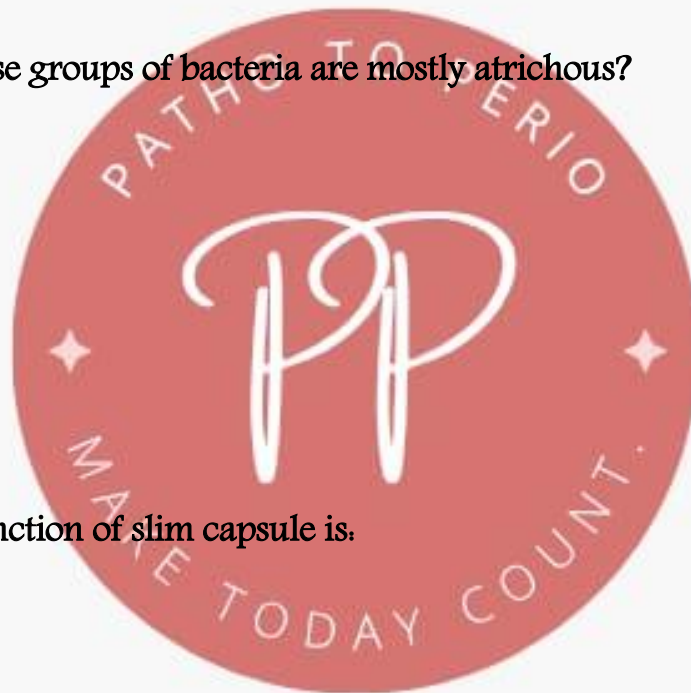
b) Prevent dehydration

c) Escaping

d) All of these

Q7. Which is not present in photosynthetic bacteria?

a) Photo System II



- b) Photo System I
- c) Chlorophyll a
- d) Both a and c

Q8. Cholera is caused by.

- a) Vibrio
- b) Bacillus
- c) Coccuso
- d) None of these

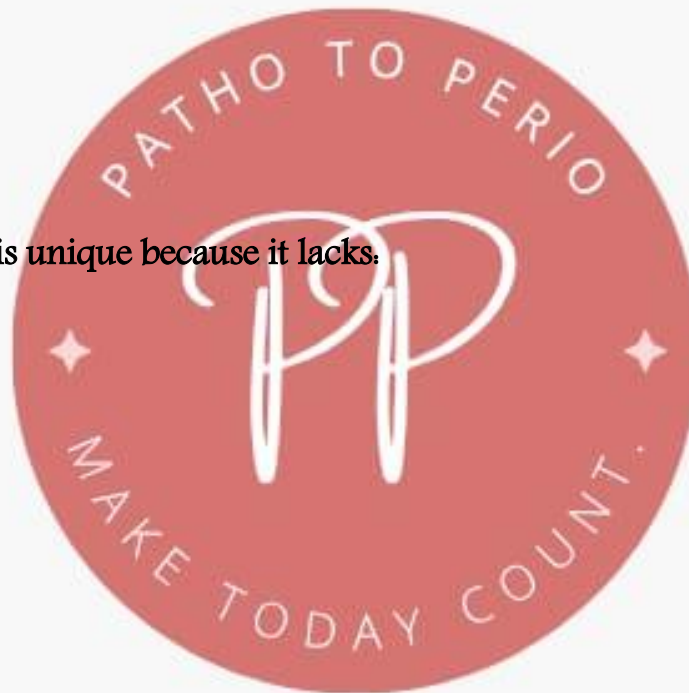
Q9. Mycoplasma is unique because it lacks.

- a) Capsule
- b) Plasmid
- c) Cell Wall
- d) Ribosome's

Q10. The first bacterium isolated was.

- a) Coccus
- b) Spirillum
- c) Spirochete
- d) Bacillus

Q11. Pilli is rigid tubular appendages in.



- a) Gram Positive bacteria
- b) Gram Negative bacteria
- c) Both a and b
- d) Actinomycetes

Q12. The region where bacterial genome resides is termed as:

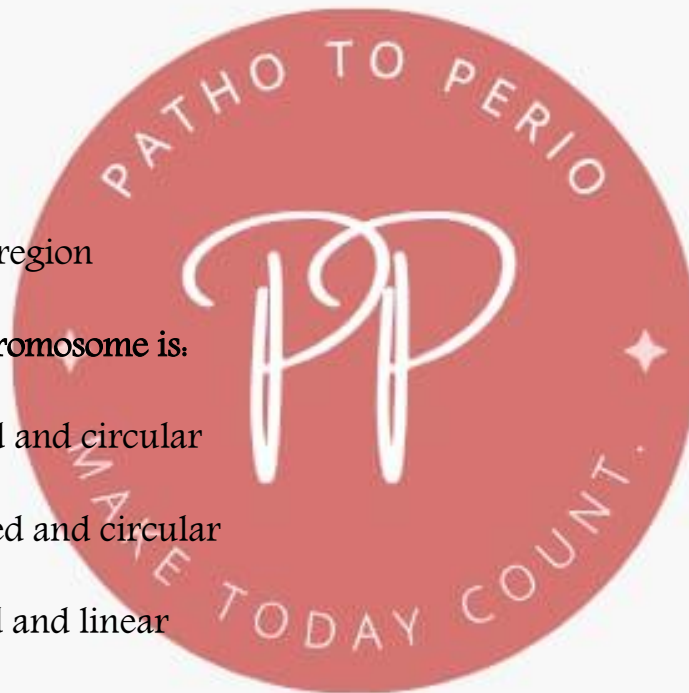
- a) Nucleus
- b) Cytoplasm
- c) Nucleoid
- d) Ribosome free region

Q13. Bacterial chromosome is:

- a) Single standard and circular
- b) Double stranded and circular
- c) Single stranded and linear
- (d) Double stranded and linear

Q14. Extra chromosomal, circular, double stranded self-replicating DNA molecule in bacteria is called.

- a) Cosmid
- b) Plasmid
- c) BAC



d) YAC

Q15. Membranous infolding in bacteria that initiate DNA replication is.

a) Mesosomes

b) Ribosome

c) Cell wall

d) Nucleosome

Q16. Cyanobacteria have _____ cell wall.

a) Gram positive

b) Gram negative

c) Acid fast

d) Cellulose rich

EXPLANATION OF MCQS

<u>MCQ's</u> <u>No</u>	<u>Correct</u> <u>Option</u>	<u>Explanation</u>
1.	B	An extra chromosomal DNA ring in bacteria is called plasmid.
2.	A	Milk is exposed to 72°C for 15 seconds is called HTST.
3.	A	Flagella are made up of flagellin protein.
4.	B	Cell wall is not present in all bacteria.
5.	B	Cocci is in atrichias having no flagella.
6.	D	Major function of slime capsule prevent dehydration.

7.	D	PS II is the building block in photoautotrophic bacteria.
8.	A	Cholera is caused by vibrio.
9.	A	Mycoplasma lack cell wall.
10.	D	First bacterium isolated was Bacillus.
11.	B	Pilli is rigid tubular appendages in Gram-negative bacteria.
12.	C	The region where bacterial genome resides termed as nucleoid.
13.	B	Bacterial chromosome is double stranded and circular.
14.	B	Extra chromosomal circular, double stranded self-replicating DNA molecule in bacteria is called plasmid.
15.	A	Membranous in folding in bacteria that initiate DNA replication is mesosome.
16.	B	Cyanobacteria have Gram negative cell wall.

