



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Biological Sciences

Class: XI

Date: 26.06.2020

(Unit -I) Ch-3- Bacteria and Cyanobacteria

FM: 15

## WORKSHEET – 11

(1x15=15)

- i) The scientist who first demonstrated the procedure for Gram staining was  
(1) Christian Gram (2) John Gram (3) Albert Gram (4) Simon Gram
- ii) The primary stain in the Gram staining procedure is  
(1) Safranin (2) Iodine (3) Crystal Violet (4) Eosin
- iii) The fixation process in Gram staining was done with  
(1) 1% Iodine (2) 0.5% Iodine (3) 0.9% Iodine (4) 3% Iodine
- iv) Which of the following is not a Gram positive Bacteria?  
(1) *Staphylococcus* (2) *Bacillus* (3) *Streptococcus* (4) *Salmonella*
- v) Which of the stain is retained by the Gram positive bacteria?  
(1) Crystal Violet (2) Iodine (3) Safranin (4) All of them
- vi) Which of the following layers is absent in Gram negative bacteria?  
(1) Lipopolysaccharide (2) Peptidoglycan (3) Teichoic Acid (4) Outer membrane
- vii) Which of the following layers help in retention of the primary stain in Gram positive bacteria?  
(1) Lipopolysaccharide (2) Plasma membrane (3) Peptidoglycan (4) Periplasmic space
- viii) *E. coli* is less susceptible to antibodies because of -  
(1) Cell wall (2) Cell membrane (3) Outer membrane (4) All of these
- ix) The central part of the cytoplasm where the naked circular DNA lies is known as  
(1) Protoplasm (2) Centrioplasm (3) Nucleoplasm (4) Chromoplasm
- x) The thick walled cells which are present in the filamentous cyanobacteria is  
(1) Endospore (2) Heterocyst (3) Akinete (4) Hormogonia
- xi) Which of the following is not a type of phycobillin?  
(1) Phycocyanin (2) Allophycocyanin (3) Phycoerythrin (4) Chlorophyll a
- xii) The lipoprotein cell membrane becomes folded at some places in cyanobacteria which are called  
(1) Mesosomes (2) Ribosomes (3) Lamellosomes (4) Polyribosomes
- xiii) If the trichome filament has undifferentiated cells, it is called-  
(1) Homocystous (2) Heterocystous (3) Equicystous (4) Semicystous
- xiv) Gaidukov phenomenon shown by some of the organisms of cyanobacteria is a phenomenon of \_\_\_\_\_ adaptation  
(1) Chromatic (2) Morphological (3) Ecological (4) Genetic
- xv) Which of the following character in cyanobacteria is unlike bacteria?  
(1) 70S ribosomes (2) Nucleoid (3) Phycobillins (4) Presence of slime layer

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