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During conjunction the genetic material will be transferred through

- | | |
|--------------|------------|
| a. Cell wall | b. Medium |
| c. Pili | d. Capsule |

The main feature of prokaryotic organism is

- a. Absence of locomotion
- b. Absence of nuclear envelope
- c. Absence of nuclear material
- d. Absence of protein synthesis

Phagocytic phenomenon was discovered by

- | | |
|------------------|----------------------|
| a. Louis Pasteur | b. Alexander Fleming |
| c. Metchnikov | d. Robert Koch |

Father of Medical Microbiology is

- | | |
|------------|-------------|
| a. Pasteur | b. Jenner |
| c. Koch | d. A.L.Hock |

Small pox vaccine was first discovered by

- a. Robert Koch
- b. Louis Pasteur
- c. Lister
- d. Edward Jenner

Father of microbiology is

- a. Louis Pasteur
- b. Lister
- c. A.V. Leeuwenhock
- d. Robert Koch

A facultative anaerobic is

- a. Only grow anaerobically
- b. Only grow in the presence of O_2
- c. Ordinarily an anaerobe but can grow with O_2
- d. Ordinarily an aerobe but can grow in absence of O_2

Cell wall of gram negative bacteria is

- a. Thick
- b. Lipids are present
- c. Teichoic acids are absent
- d. None of these

Recombination process occurring through the mediation of phages is

- a. Conjunction
- b. Transduction
- c. Transformation
- d. Transfection

Mordant used in grams staining is

- a. Crystal violet
- b. Iodine
- c. Saffranin
- d. All of these

The cells having F plasmid in the chromosomes were termed as

- a. Hfr
- b. F^-
- c. Hbr
- d. C^+

The apparatus used to maintain a continuous culture

- a. Chemostat
- b. Autostat
- c. Thermostat
- d. Both a and c

All prokaryotes are surrounded by a cell wall except

- a. Mycoplasmas
- b. Sperochetes
- c. Actinomycetes
- d. Methanogena

Virus will contain

- a. Cell membrane
- b. Cell wall
- c. DNA
- d. DNA or RNA

The characteristic shape of the bacteria is maintained because of

- a. Capsule
- b. Cell wall
- c. Cell membrane
- d. Slime layer

Bacterial locomotion is accomplished by

- a. Fimbria
- b. Flagella
- c. Cytoskeleton
- d. Both a and b

Teichoic acids and Teichuronic acids are found in

- a. Gram positive bacteria
- b. Gram negative bacteria
- c. Fungi
- d. None of these

d.b.d.a

The differences between Gram positive and Gram negative bacteria is shown to reside in the

- a. Cell wall
- b. Nucleus
- c. Cell membrane
- d. Mesosomes

The bacterial cell multiplication is usually by

- a. Mitosis
- b. Meiosis
- c. Conjugation
- d. Binary-fission

The action of alcohol during Gram-staining is

- a. Allows the color
- b. It adds color
- c. Decolorises the cells
- d. None of these

Lipid contents is more in

- a. Gram negative bacteria
- b. Gram positive bacteria
- c. Same in both
- d. None of these

What is the function of bacterial capsule?

- a. Production of organism from phagocytosis
- b. Helps in adherence of bacteria to surface in its environment
- c. Both a and b
- d. None of these

Techoic acid is –

- a. Found in the walls of Gram positive bacteria
- b. Provide receptors for phages
- c. Make up outer wall of Gram negative bacteria
- d. Influence the permeability of the membrane

A polysaccharide capsule is present on cryptococci which –

- a. Inhibits phagocytosis
- b. Is an aid to diagnose
- c. Cross reacts with rheumatoid factor
- d. All of these

β -haemolytic bacteria is

- a. Streptococcus pyogenes
- b. Str. pneumoniae
- c. Str. viridans
- d. Str. faecalis

Mycobacteria are stained with

- a. Gram's staining
- b. Simple staining
- c. Both a and b
- d. Ziehl – Neelsen's staining

Acid fast bacteria are

- a. Neisseria
- b. Staphylococci
- c. Mycobacteria
- d. All of the above

Gram positive bacteria appear as

- a. Pink
- b. Violet
- c. both a & b
- d. None of these

Gram negative bacteria appear as

- a. Pink
- b. Violet
- c. both a & b
- d. None of these

The order of stains in Gram-staining procedure is

- a. Crystal violet, Iodine solution, Alcohol, Saffranine
- b. Iodine solution, Crystal Violet, Saffranine, Alcohol
- c. Alcohol, Crystal Violet, Iodine solution, Saffranine
- d. All of these

Cell-wall is

- a. Thick in Gram positive than Gram negative
- b. Thick in Gram negative than Gram positive
- c. Equal in both
- d. In Gram negative cell-wall is absent

The action of alcohol during Gram-staining is

- a. Allows the color
- b. It adds color
- c. Decolorises the cells
- d. None of these

Lipid contents is more in

- a. Gram negative bacteria
- b. Gram positive bacteria
- c. Same in both
- d. None of these

Lysozyme is effective against

- a. Gram negative bacteria
- b. Gram positive bacteria
- c. Protozoa
- d. Helminthes

Blood agar medium is

- a. Enrichment medium
- b. Enriched medium
- c. Selective medium
- d. Differential medium

Autoclaving is carried at

- a. Dry heat
- b. Atmospheric pressure
- c. 120°C
- d. All of these

Which of the following method of sterilization has no effect on spores?

- a. Drying
- b. Hot air oven
- c. Autoclave
- d. None of these

Which of the following induces dimerisation of thymine?

- a. X-rays
- b. U.V. rays
- c. α -rays
- d. None of these

The technique used to avoid all microorganisms is accomplished by

- a. Sterlization
- b. Disinfection
- c. Surgical sterilization
- d. Disinfection Sterilization

Temperature used for hot air oven is

- a. 100°C for 1 hour
- b. 120°C for 1 hour
- c. 160°C for 1 hour
- d. 60°C for 1 hour

For effective sterilization in an autoclave the temperature obtained is

- a. 50°C
- b. 100°C
- c. 120°C
- d. 180°C

Spores are killed by

- a. 70% alcohol
- b. Glutaraldehyde
- c. Autoclaving
- d. Both b and c

The differentiate lactose and non-lactose fermentors, the medium used is

- a. Wilson & Blair
- b. Blood Agar
- c. Tetra thionate broth
- d. Mac-Conkey's Agar

Example of Anaerobic medium is

- a. Robertson cooked-meat medium
- b. Nutrient agar
- c. Nutrient broth
- d. Mac-Conkey's agar

In autoclave, the principle involved is

- a. Dry heat
- b. Moist heat
- c. Steam under pressur
- d. Both b and c

The sterilizing agent is

- a. Ethelene oxide
- b. Oxygen
- c. Nitrogen
- d. Carbon tetrachloride

Culture medium for Mycobacterium tuberculosis

- a. LJ medium
- b. Mac Conkey's medium
- c. Wilson blair medium
- d. None of these

أضأت بك الدنيا فشت ممجدا
وغبت عن الدنيا ومازلت سيّدا
عليك سلام الله في كل خفّة
فقد ماتت الأسماء إلا محمدا

والله
صلى الله عليه

