

Microbiology

1. Germ theory of disease put forth by

1. Pasteur *2. Koch 3. Jenner 4. Beijerinck

2. Group of eight coccal bacterial cells can be classified as

1. Sarcina *2. Staphylococci 3. Streptococci 4. Diplococci

3. True statement among the following

- A. *Acetobacter* is a pleomorphic bacteria B. Spirochete is a thread like bacteria
C. *Beggiatoa* is a spiral bacteria D. Number of bacteria in sarcina are eight.
1. A & B *2. C & D 3. B & C 4. A & D

4. Plasmids are classified into three main types namely

- A. Plasmids (F Factor) or sex plasmids B. R plasmids C. Col plasmids D. Cytoplasm
1. A, B, D 2. B, C, D *3. A, B, C 4. A, C, D

5. Assertion (A): Plasmids usually contain fewer genes

Reason(R): Plasmids are much smaller than genome.

- *1) Both A and R are correct and R is the correct explanation of A.
2) Both A and R are correct but R is not the correct explanation of A.
3) A is true, R is false
4) A is false, R is true.

6. Uptake and heritable incorporation of a DNA fragment by a bacterial cell is called as

1. Genetic Engineering 2. Transduction *3. Transformation 4. Inoculation

7. Lederberg and Tatum performed their experiments on

- *1. *E. coli* 2. *Salmonella typhimurium*
3. *Streptococcus pneumonia* 4. *Rhizobium*

8. True statement regarding pili

- I. All bacteria show them II. All F⁺ bacteria have sex pili
III. All bacteria that have sex pili must have plasmid IV. Pili are longer than flagella
(1) I & II *2. II & III (3) III & IV (4) IV & I

9. Causative organism of Syphilis

1. *Clostridium* *2. *Treponema* 3. *Diplococcus* 4. *Bacillus*

10. In Transduction

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- *1. A vector transfers the genetic material 2. Genetic material passes through the cell wall
3. Genetic material passes through sex pili 4. Only plasmid involves in genetic transfer

11. Genetic exchange in bacterium, through medium without physical contact, is discovered by

1. Lederberg & Zinder *2. Frederick Griffith
3. Lederberg & Tatum 4. Beijerinck.

12. Genome in TMV is

- 1) ds DNA 2) ds RNA *3) ss RNA 4) ss DNA

13. Number of amino acids in each capsomere, number of capsomeres and number of nucleotides in TMV respectively are

- *1) 158, 2130, 6500 2) 2130, 6500, 158
3) 6500, 2130, 158 4) 6500, 158, 2130

14. Prions are

- 1) Viruses with protein coat and nucleic acid
2) Viruses without protein coat but containing nucleic acid
*3) Viruses without nucleic acid but containing protein coat
4) Enveloped viruses

15. Viral genome incorporated in bacterial chromosome is called

- 1) Temperate phage *2) Prophage 3) Lysogen 4) Vegetative phage

16. Mad cow disease is caused by

1. Virus 2. Virion *3. Prion 4. Viroid

17. Which of the following statements are correct with reference to Viruses?

- I. They do not respond to stimuli
II. There is no intrinsic motility
III. They possess both DNA and RNA
IV. They do not have cellular organization

- 1) I, II, III 2) II, III, IV 3) I, III, IV *4) I, II, IV

18. Cancer causing viruses in humans are

1. Polio virus *2. Epstein – Barr virus 3. Herpes virus 4. Ebola virus

19. Viruses are

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| 1. Heterotrophs | 2. Obligate ectoparasites |
| *3. Obligate endoparasites | 4. Facultative parasites |

20. The discovery that genetic material of TMV is the RNA is by

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| 1. Pierie & Bawden | 2. Gierrer & Schramm | *3. Frankel Conrat | 4. Pasteur & Jenner |
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