

Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020)

Course Name - Molecular Biology and Microbial Genetics

Course Code - MMB201

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Answer all the questions. Each question carry one mark.

9. 1. Which of the following bonds are broken during DNA replication?

Mark only one oval.

- hydrogen bonds between bases
- phosphodiester bonds
- covalent bonds between bases
- ionic bonds between bases and phosphate groups

10. 2. Which technique was used to determine the double-helical structure of DNA?

Mark only one oval.

- Electrophoresis
- Chromatography
- Centrifugation
- X-ray crystallography

11. 3. If 30% of the bases in a DNA molecule are adenine, what percentage of the bases are guanine?

Mark only one oval.

- 0.2
- 0.3
- 0.35
- 0.7

12. 4. Semi-conservative DNA replication was first demonstrated in

Mark only one oval.

- Drosophila melanogaster*
- Escherichia coli*
- Streptococcus pneumoniae*
- Human

13. 5. Both the strands of DNA serve as templates concurrently in

Mark only one oval.

- Replication
- Excision repair
- Mismatch repair
- None of these

14. 6. Round structures of Deoxyribonucleic Acid (DNA) around histone proteins are called

Mark only one oval.

- Mono hybrid genes
- Hybrid genes
- Chromosomes
- Nucleosomes

15. 7. In a nucleotide, the nitrogen base is joined to the sugar molecule by

Mark only one oval.

- Phosphodiester bond
- Glycosidic bond
- Hydrogen bond
- Phosphodiester bond & glycosidic bond

16. 8. Hershey and Chase experiment proving DNA as the genetic material was based on the principle

Mark only one oval.

- Transduction
- transformation
- transcription
- translation

17. 9. Teminism is

Mark only one oval.

- Central dogma reverse
- Central dogma of molecular biology
- Circular flow of hereditary material
- An effect of cytoplasm on functioning of DNA

18. 10. The removal of which enzyme affects the synthesis of hnRNA in eukaryotes

Mark only one oval.

- RNA polymerase II
- RNA primase
- RNA polymerase III
- RNA polymerase I

19. 11. Wobble position means

Mark only one oval.

- Base pairing
- Altered base on code
- Third altered base on codon
- None of these

20. 12. Which of the statements given below is correct with respect to frameshift mutation

Mark only one oval.

- Single nucleotide base change, insertion, or deletion of the genetic material
- Glutamine is replaced by valine
- Sickle cell anemia is an example
- Insertions or deletions of a number of nucleotides in a DNA sequence that is not divisible by three.

21. 13. The stretch of codons between AUG and a stop codon is called

Mark only one oval.

- Open reading frame
- TATA box
- Colinearity
- Degenerate

22. 14. ISSR is a

Mark only one oval.

- DNA marker
- Protein marker
- Both DNA marker and protein marker
- None of these

23. 15. Which one of the following enzyme is not a protein:

Mark only one oval.

- DNase
- Abzyme
- EcoRI
- Ribozyme

24. 16. DNA strands are antiparallel due to

Mark only one oval.

- H-bond
- PO₄ bond
- Disulphide bond
- Glycosidic bond

25. 17. In nucleic acids

Mark only one oval.

- DNA is single stranded in some viruses
- RNA is double stranded occasionally
- One turn of Z-DNA has 12 bases
- All of these

26. 18. 'Transforming factor' is used for the name of

Mark only one oval.

- RNA
- DNA
- tRNA
- None of these

27. 19. In every cell, the number of tRNA molecules are at least

Mark only one oval.

- 10
- 15
- 20
- 25

28. 20. Lac operon is nothing but

Mark only one oval.

- Structural genes
- Operator genes
- Both structural genes & operator genes
- None of these

29. 21. Exons are spliced to form

Mark only one oval.

- mRNA
- tRNA
- rRNA
- None of these

30. 22. An alteration in the sequence of bases in a gene resulting in an altered gene product is called

Mark only one oval.

- Mutation
- Translation
- Transfer
- Repressor

31. 23. RAPD DNA markers are normally

Mark only one oval.

- 15 bases long
- 10 bases long
- 20 bases long
- 22 bases long

32. 24. SSR marker are

Mark only one oval.

- Micro satellite
- Macro satellite
- Both micro satellite & macro satellite
- None of these

33. 25. Introduction of DNA molecules into the recipient organism is termed as _____

Mark only one oval.

- Transformation
- Translation
- Transduction
- Transcription

34. 26. F plasmid is often used in conjugation. The correct statement is-

Mark only one oval.

- The F plasmid encodes the factor which is transferred from one cell to another
- The factor encoded by the F plasmid is called as Filamentous (F) factor
- It is transferred from one cell to another by filament
- The bacteria must belong to same species to carry out the conjugation

35. 27. Plasmids can be classified into how many types depending on the genes present for their transformation?

Mark only one oval.

- 1
 2
 3
 4

36. 28. Electroporation is also used for taking up the DNA by the cells. It constitutes of _____.

Mark only one oval.

- inserting the DNA into the cells via an electric shock
 increased efficiency than both natural and chemical methods
 causing the least amount of damage in comparison to other methods
 decreased efficiency than both natural and chemical methods

37. 29. Transformation carried out using a particle gun is known as biolistic transformation. It falls under which category of transformation?

Mark only one oval.

- Physical
 Chemical
 Electroporation
 Natural

38. 30. The size of the virulent plasmid of *Agrobacterium tumefaciens* is

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- 40-80 kb
- 80-120 kb
- 140-235 kb
- >235 kb

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