

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

Course Name - Genomics and Proteomics

Course Code - MBT205

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Answer all the questions. Each question carry one mark.

9. 1. Simple sequence repeats are

*Mark only one oval.*

- 1-6 bp long sequences distributed along the chromosome
- Individual specific in number and position
- Also called as micro satellites
- All of these

10. 2. Radioactive probe is not required

*Mark only one oval.*

- RAPD
- AFLP
- RFLP
- All of these

11. 3. Operon is found in

*Mark only one oval.*

- prokaryotics
- Eukaryotics
- yeast
- Nil

12. 4. Molecular marker include

*Mark only one oval.*

- RFLP
- AFLP
- SSR
- All of these

13. 5. Name the area of a bacterial cell which contains a bacterial chromosome

*Mark only one oval.*

- DNA
- Nucleus
- Nucleoid
- Cell wall

14. 6. Which of the following dye is used for observing DNA in agarose gel?

*Mark only one oval.*

- Ethidium bromide
- acetocarmine
- Methylene blue
- None of these

15. 7. Which nucleoid protein assisted in condensation of DNA?

*Mark only one oval.*

- SMC
- IHF
- HU
- H-NS

16. 8. Name the group of bacteria which uses histone to condense DNA molecule?

*Mark only one oval.*

- Spirochetes
- Archaeobacteria
- Mycoplasma
- Cyanobacteria

17. 9. All are genome sequencing strategies except

*Mark only one oval.*

- Edmen degradation sequencing
- short gun library
- Whole genome short gun sequencing
- Directed gene sequencing

18. 10. mall cDNA sequence that represents a unique segment of an active gene is called

*Mark only one oval.*

- SNPs
- SnRNAs
- EST
- Cintigs

19. 11. Extrachromosomal DNA present in prokaryotes is called\_\_\_\_\_

*Mark only one oval.*

- Cocci group of bacteria
- Chainlike group of bacteria
- Plasmid
- Grapelike cluster of bacteria

20. 12. Name the plasmid which makes host cell resistance to the antibiotic.

*Mark only one oval.*

- Hfr
- F-plasmid
- Col plasmid
- R-plasmid

21. 13. Which of the following is NOT the property of plasmid?

*Mark only one oval.*

- Rolling circle replication
- Narrow host range
- Two closely related plasmids cannot coexist in the same cell
- Encodes gene products that are essential for growth

22. 14. Name the type of plasmid which has no identified function or phenotypic properties?

*Mark only one oval.*

- Cryptic plasmid
- R-plasmid
- High-frequency recombination
- Col plasmid



23. 15. Which one of the marker requires blotting?

*Mark only one oval.*

- RAPD
- SSR
- RFLP
- None of these

24. 16. In agarose gel DNA fragments moves according to their

*Mark only one oval.*

- size
- charge
- charge and size
- All of these

25. 17. Which of the following plasmid found in eukaryotes?

*Mark only one oval.*

- Col plasmid
- 2 $\mu$  circle
- F-plasmid
- Hfr

26. 18. The extension temperature of PCR is --- degree centigrade.

*Mark only one oval.*

72

50-60

95

20

27. 19. Name the technique that follow repetitive sequences.

*Mark only one oval.*

AFLP

RAPD

MFLP

SSR

28. 20. Paternity test is best determined by

*Mark only one oval.*

RAPD

AFLP

SSR

Non repetitive DNA

29. 21. The number of nucleotide repeats in minisatellite

*Mark only one oval.*

- 6-10
- 1-5
- 15-30
- 30-80

30. 22. Genes can be altered or replaced by

*Mark only one oval.*

- Transposon tagging
- RNA interference
- Homologous recombination
- All of these

31. 23. Protein-protein interactions can be identified by

*Mark only one oval.*

- Microarrays
- Hierarchical clustering
- Isoelectric focusing
- The yeast two-hybrid system

32. 24. Mass spectrometry is used in

*Mark only one oval.*

- Transcriptome analysis
- Proteome analysis
- Protein separation
- None of these

33. 25. Microarrays

*Mark only one oval.*

- Are used for analysis of transcriptomes
- Are made of glass
- Contain RNA sequences
- Are smaller than DNA chips

34. 26. Expression of genes can be analyzed by

*Mark only one oval.*

- The yeast two-hybrid system
- Protein profiling
- Comparative genomics
- RNA interference

35. 27. The function of genes can be determined by

*Mark only one oval.*

- Gene inactivation
- Exon trapping
- Southern blotting
- Northern analysis

36. 28. Which of the following statements are not true

*Mark only one oval.*

- Proteomes consist of proteins
- The genetic code includes 3
- Ribosomal RNAs are translated into proteins
- None of these

37. 29. The first completed genome sequencing project is of

*Mark only one oval.*

- E.coli
- Haemophilus influenzae
- ØX174
- Drosophila melanogaster

38. 30. How many countries are responsible for developing Human Genome Project

*Mark only one oval.*

3

4

5

6

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