

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

Course Name - Genetic Engineering & Recombinant DNA Technology

Course Code - MBT203

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Answer all the questions. Each question carry one mark.

8. 1. Sanger Sequencing method is also known as

*Mark only one oval.*

- Chain termination method(Y)
- Maxam-Gilbert sequencing(N)
- Both Chain termination method and Maxam-Gilbert sequencing
- None of these

9. 2. Enzyme which can break and seal the DNA strand

*Mark only one oval.*

- Topoisomerase II
- Ligase
- Primase
- Restriction endonuclease

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

*Mark only one oval.*

- Electrophoresis
- Chromatography
- Centrifugation
- X-ray crystallography

11. 4. Who is credited with discovering the structure of DNA?

*Mark only one oval.*

- Crick and Neck
- Watson and Crick
- Watson and Franklin
- Holmes and Watson

12. 5. DNA synthesis is

*Mark only one oval.*

- Unidirectional
- bidirectional
- nondirectional
- Multidirectional

13. 6. Restriction site of EcoR1 is

*Mark only one oval.*

- CTTAAG
- CTTGAG
- CTTAGG
- All of these

14. 7. Number of base pair present in each turn of DNA is

*Mark only one oval.*

- 100
- 1
- 10
- 15

15. 8. Synthesis of RNA from DNA is

*Mark only one oval.*

- Transcription
- Translation
- Metabolism
- Reduction

16. 9. Restriction site of BamH1 is

*Mark only one oval.*

- AGATCC
- GAATCC
- GGATCC
- GGATAC

17. 10. Southern hybridization technique is used to detect:

*Mark only one oval.*

- RNA
- DNA
- Protein
- Enzyme

18. 11. Protein DNA interaction is detected by:

*Mark only one oval.*

- EMSA
- PCR
- ELISA
- RFLP

19. 12. Shuttle vector propagates between:

*Mark only one oval.*

- Prokaryotes
- Eukaryotes
- Both Prokaryotes and Eukaryotes
- None of these

20. 13. A cloning vector must have:

*Mark only one oval.*

- Selectable markers
- Restriction enzyme sites
- Multiple cloning site
- All of these

21. 14. Multiple cloning site (MCS) is defined as

*Mark only one oval.*

- site within the plasmid which contains a site for many restriction enzymes
- site within the plasmid which contains a site for many restriction enzymes and they are not present anywhere else in the plasmid
- as the site containing many sites for only one restriction enzyme
- cloning many inserts together

22. 15. Which of the statement is true for pBR322?

*Mark only one oval.*

- It contains only an ampicillin resistance gene
- It contains both ampicillin resistant and tetracycline resistant gene
- The cloning site is present only in the ampicillin resistant gene
- It is a natural vector

23. 16. Choose the correct statement for BAC vector system.

*Mark only one oval.*

- BAC vector system stands for bacteria and chromosome
- It usually accepts insert of size approximately 1000kbp
- TherepE and oriS sequences are required for controlling the copy number and par A-C sequences are required for replication
- A selectable marker is there for chloramphenicol resistance

24. 17. DNA unwinding is done by

*Mark only one oval.*

- Ligase
- Helicase
- Topoisomerase
- Hexonuclease



25. 18. DNA replication is

*Mark only one oval.*

- Conservative
- Non-conservative
- Semi-conservative
- None

26. 19. Which size of the insert is accepted by the cosmids

*Mark only one oval.*

- 10-20 kbp
- 35-45 kbp
- 50-60 kbp
- 100-120 kbp

27. 20. Libraries can broadly be classified into how many types?

*Mark only one oval.*

- 1
- 2
- 3
- 4

28. 21. The ribosomes are composed of

*Mark only one oval.*

- proteins
- RNA
- both proteins and RNA
- lipids

29. 22. The process of formation of RNA is known as \_\_\_\_\_

*Mark only one oval.*

- Replication
- DNA repair
- Translation
- Transcription

30. 23. Polymerase used for PCR is extracted from

*Mark only one oval.*

- Escherichia coli
- Homo sapiens
- Thermus aquaticus
- Saccharomyces cerevisiae

31. 24. The inheritance pattern of RAPD is

*Mark only one oval.*

- Dominant
- Recessive
- Codominant
- Random

32. 25. How many bases of nucleic acid determine a single amino acid?

*Mark only one oval.*

- One
- Three
- Two
- Four

33. 26. True replication of DNA is possible due to

*Mark only one oval.*

- Hydrogen bonding
- Phosphate backbone
- Complementary base pairing rule
- None of these

34. 27. DNA synthesis can be specifically measured by estimating the incorporation of radio labelled

*Mark only one oval.*

- uracil
- thymine
- Adenine
- Deoxyribose sugar

35. 28. Transcription factors are

*Mark only one oval.*

- promoters
- proteins which bind to DNA and regulate transcription
- TATA boxes
- CATT boxes

36. 29. Which of the following is not a necessary component of translation?

*Mark only one oval.*

- Anticodon
- mRNA
- Ligase
- Amino acid

37. 30. Mark the one, which is NOT a stop codon?

*Mark only one oval.*

UAA

UAG

UGA

GGA

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