

Biology Important Questions and Topics

Unit 2 :

1. Full form of ECG, EMG, EEG, MRI, X-RAY.
2. Instrument which records the electrical activity of the heart.
3. Waves, applications of ECG,EMG,MRI,X-RAY.
4. Types of Biomedical Instrumentation.
5. Test used to evaluate the electrical activity in the brain.
6. EEG measures the electrical impulses in your brain by using several electrodes that are attached to your scalp.
 - (a) True
 - (b) False
7. Biosensors, characteristics and principles.
8. Father of biosensors.
9. Another name of bioreceptors.
10. Receptors and their types
11. Transducers,its classification and its characteristics.
12. Full form of LVDT.
13. Active transducers includes photovoltaic cells
 - (a) True
 - (b) False
14. Chromatography is the process for identification, purification and separation of components of a mixture on the basis of
 - (a) Difference in their boiling point
 - (b) Difference in their melting point
 - (c) Difference in their affinity for mobile and stationary phase.

- (d) Difference in their solubility
15. Full form of BAC and YAC.
 16. What are double-stranded, closed circular DNA molecules, which exist in the cell as extrachromosomal units ?
 17. Biosensors were first developed by whom and in which year?
 18. Electroencephalograph is an instrument for recording the electrical activity of what by suitably placing surface electrodes on ?
 19. ECG records what ?
 20. Full form of RDT, Steps of RDT, its Applications.
 21. PCR , fullform , applications
 22. Recombinant DNA in a living organism was first achieved in which year and by whom ?
 23. Vectors and its types.
 24. What are capable of being transcribed but not translated ?
 25. Vectors designed specifically for the expression of the transgene in the target cell are called expression vectors.
(a)True
(b)False
 26. Another name of DNA fingerprinting.
 27. Applications of DNA Fingerprinting.
 28. Applications and Steps of PCR
 29. Applications of Chromatography
 30. Immunity and its types.
 31. Which immunity is acquire with the passage of life ?
 32. Which immunity is present by birth ?
 33. Lymphoid organs and its types.

- 34. Types of immune cells.
- 35. B cells are derived from ?
- 36. Types of phagocytes.
- 37. Defence mechanism.

(a)

(e)