

B.Sc. Biotechnology question bank
Semester= 6, Subject= Biophysics paper 18

Objective questions

1. Bonds present between two amino acid is
2. Degree of disorderness is called
3. bonds formed due to sharing of electron is called as.....
4. Bond present between two bases of DNA present on opposite strand is
5. Ion with no net charge is called as.....
6. Give example for a negatively charged amino acid
7. Define isotope
- 8 what is ionisation energy
- 9 give example for one ionising and one non ionising radiation
- 10 in case of GM counter G..... and M.....
11. If n/p ratio of an atom is less than one atom will be radioactive
- 12.what is first law of thermodynamics
13. What is enthalpy
14. What is entropy
- 15 what is free energy
- 16.what do you mean by excitation of an atom
- 17.give example of ionic bond in a biomolecule
- 18.what is Van der Waals force
- 19.what is hydrogen bond
20. Bond present between histone and DNA is called
21. oxygen evolved during light reaction of photosynthesis come out from.....
22. What is granum
- 23 granum is not present in algae.state true or false
24. Cation present in chloroplast is
25. Which one is most effective light in photosynthesis blue, green or red
26. C₃ cycle is also known as
27. What is pH
- 28 What is buffer
- 29.what is pKa value of an acid
- 30 what is oxidative phosphorylation
- 31 full form of ECG and EEG.....
- 32.what is radioactivity
33. If you want to measure gamma decaying radiation Counter will be used
- 34.GM tube is filled with.....gas.
- 35 upon one alpha decay atomic number will reduce by Unit
36. Full form of CAT scan is
37. Two neurons are connected via junction is called as
38. What are two common defects of vision..... And
- 39.give example for two neurotransmitters..... and.....
- 40..... Apron is used to give protection from radiation.
- 41.what is photorespiration
- 42.C₄ pathway is also called as

43. Mesophyll cell and bundle sheath cell is character ofplant
 44. Give two examples for C4 plant
 - 45.what is photorespiration
 - 46 with a suitable example explain beta decay
 - 47,. Out of alfa , beta and gamma radiation Is having maximum ionisation energy
 48. S.I unit of radioactivity is
 - 49.what is rubisco
 - 50 Radiation is used for CAT scan
- Long answer question each question carries 5 marks
51. Compare the properties of alfa, beta and gamma radiation
 52. what is effect of ionising and non ionising radiation on cell
 - 53, explain the working principle and applications of ECG
 - 54.What is EEG explain the principle and medical applications
 - 55What is hypermetropia
 56. What is ultrasound and it's medical applications
 - 57.what is mechanism of nervous conduction
 - 58.list out five differences between photo system 1 and photo system 2
 - 59.what is signal transduction
 - 60 what is Scintillation counter
 - 61.what is hearing aids
 - 62.list out bonds stabilising DNA structure
 63. What is intermolecular and intramolecular hydrogen bond
 - 64What is radiation protection.
 - 65 write a short note on liquid scintillation counter
 66. What is half life
 - 67.give an account of various types of α decay.
 - 68.explain the principles of thermodynamics

<p>Bsc biotechnology subject=Enterpren uship and IPR, paper=19</p>
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Short answer questions

- 1.full form of IPR is
- 2Covid 19 belongs to Biosafety level
- 3 define bioethics
4. What is patenting
- 5 what is copy right
- 6 full form of WTO
- 7full form of TRIPs
- 8.full form of Bt
9. Give example for two pathogen levels 2 is
- 10.what is super bug

- 11 super bug was created by
12. full form of GAAT
13. Full form of PCR
- 14 give examples for one genetically modified crop
- 15.E. coli belongs to BS Level
- 16 mechanism of sterilisation of phenol is
17. Laminar air flow has a filter which is called as
- 18.The potential sources of exposure to infectious microorganism in the laboratory include all of the following except-
 - a.mouth pipetting
 - b.contaminated toilet seats
 - c.mixing microbial suspension by pipette
 - d.pouring or decanting fluids
- 19.give example for lowest level of biosafety.....
- 20In order to protect yourself from radiation Apron are used

Long answer questions

- 21.what are containment for field trial of genetically modified crops
- 22.what is bioethics
- 23 what is patenting explain the steps of getting patent
- 24 what are the containment level for pathogen4
- 25 what is biosafety
- 26 list out the disadvantages of patenting
27. What are the desirable character of a good enterpranour
- 28.what is copy right
- 29 what is GATT
- 30.what are different biosafety regulations
- 31.list out the precautions to be taken for disposal of hazardous material
- 32.what is containment level of BS 2 labs
- 33 what is WTO agreement
34. What are the common methods for market survey
- 35 how a project is formulated
- 36.list out some financial institutions and their role in the development of an industrial unit
- 37 what are the modes of your business promotions
- 38.how human resource is very important for business
- 39 what are the precautions to be taken for writing a report
- 40.compare the containment levels of BS1, BS2 , BS 3 and BS 4 labs.