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active log/exponential phase. This type of culturing method produces a larger biomass leading to higher yields of desired protein.

Small volume cultures cannot yield appreciable quantities of product. To produce in large quantities, the development of **bioreactors**, where large volumes (100–1000 litres) of culture can be processed, was required. Thus, bioreactors can be thought of as vessels in which raw materials are biologically converted into specific products. Individual enzymes, etc., using microfloral plant, animal or human cells. A bioreactor provides the optimal conditions for achieving the desired product by providing optimum growth conditions (temperature, pH, substrate, salts, vitamins, oxygen).

The most commonly used bioreactors are of stirring type, which are shown in Figure 11.7.

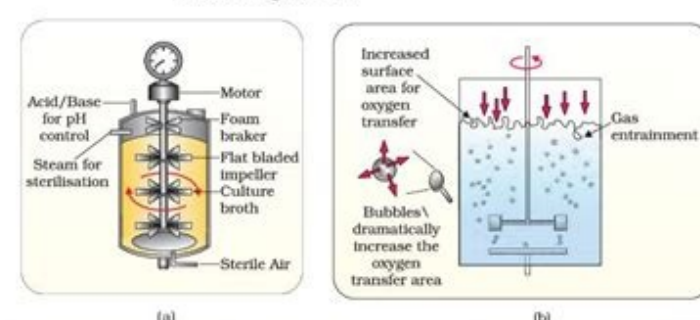


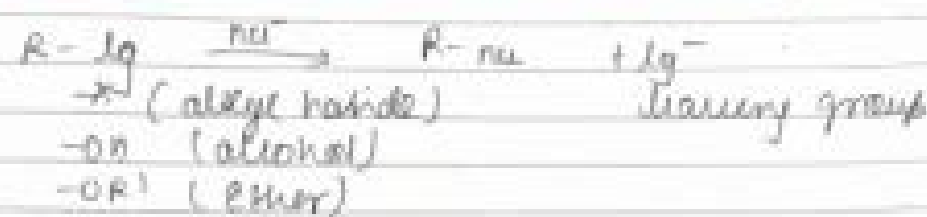
Figure 11.7 (a) Simple stirred-tank bioreactor; (b) Sparged stirred-tank bioreactor through which sterile air bubbles are sparged

A stirred-tank reactor is usually cylindrical or with a curved base to facilitate the mixing of the reactor contents. The stirrer facilitates even mixing and oxygen availability throughout the bioreactor. Alternatively air can be bubbled through the reactor. If you look at the figure closely you will see that the bioreactor has an agitator system, an oxygen delivery system and a foam control system, a temperature control system, pH control system and sampling ports so that small volumes of the culture can be withdrawn periodically.

11.3.6 Downstream Processing

After completion of the biosynthetic stage, the product has to be subjected through a series of processes before it is ready for marketing as a finished

2046-2070

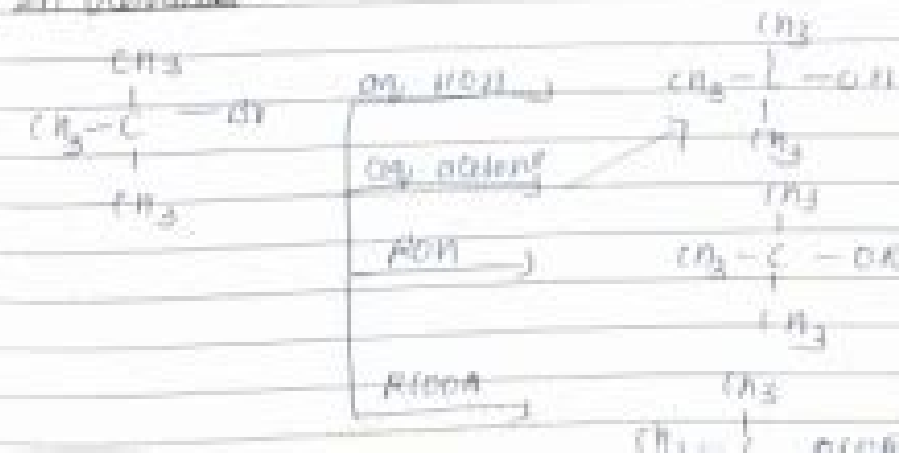


Type :-

- 1) S_N1 (unimolecular nucleophilic substitution reaction)
- 2) S_N2 (bimolecular nucleophilic substitution reaction)

S_N1 Reactions of alkyl halide -

In classical -



COMPLETE ASSIGNMENT (UNIT-I)

UNIT: REPRODUCTION
VI

CLASS – XII

SUBJECT – BIOLOGY

CHAPTERS COVERED

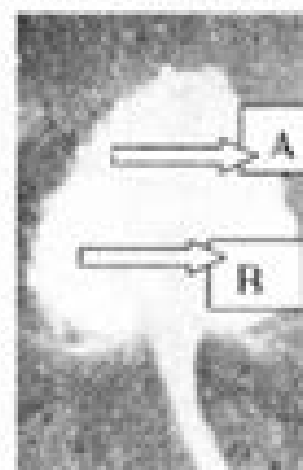
1. REPRODUCTION IN ORGANISMS
2. SEXUAL REPRODUCTION IN FLOWERING PLANTS
3. HUMAN REPRODUCTION
4. REPRODUCTIVE HEALTH

GENERAL INSTRUCTIONS:

1. Draw well labelled diagrams, wherever necessary.
2. The worksheet consists of four sections A, B, C and D. Section-A contains questions of 1 mark each. Section-B contains questions of 2 marks each. Section-C contains questions of 3 marks each. Section-D contains questions of 5 marks.

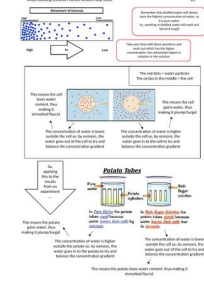
SECTION-A

1. A diagnostic technique in which a sample of amniotic fluid is taken from the womb of a pregnant woman during the early stages of foetal development. By what name is this method commonly known as? What can be detected by it? **OR** Mention one positive and negative application of amniocentesis.
2. Production of sperms requires low temperature. How is it accomplished in human body? **OR** What is the significance of extra-abdominal testes in a human male?
3. Fill in the blank:
(a) *Strobilanthes kunthiana* flowers once in _____ years.
(b) Asexual reproductive structure in *Penicillium* is _____.
4. Will the new organism be formed if syngamy does not occur? Support your answer with examples from both plants & animals.
5. A spermatogonial cell has 30 chromosomes. How many chromosomes will be formed in a) The primary spermatocyte b) A spermatid derived from the cell?
6. (a) How many pollen sacs are present in anther?
(b) Why are datepalms referred to as dioecious?
7. Mention two characteristics of pollen grains of maize, that suit the type of pollination.
8. Why are some fruits called as false fruits? Look at fruit below and label the parts.



9. What is the hormonal combination of emergency contraceptives?
10. Where are stem cells located in human embryo? And why are they considered as special cells?
11. (a) When do primary oocytes develop in human female? (b) What is the term used for cyclic changes during reproduction in non-primates?

[illegible]



Experiment Experiment 14. Thank you so much For link Removal please contact us on handwrittennotes12@gmail.com. We will remove the link immediately. FAQs on CBSE Class 10 Science Practicals 2022 For Term 1 & Term 2 Yes. Observation:Ā It covers the observation data of the experiment while performing the experiments. The final result that students have obtained by performing the activity. Personal pronouns should be avoided while writing impersonally. Why are the incident and emergent rays parallel to each other in the case of a rectangular glass slab? Results and Discussion: It covers the final result of the experiment. They can improve the basic science fundamentals band gradually they will learn by doing things. Study of the following properties of acetic acid (ethanoic acid): Odour Solubility in water Effect on litmus Reaction with Sodium Hydrogen Carbonate Experiment 9. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions: ZnSO4(aq) FeSO4(aq) CuSO4(aq) Al2A (SO4)3(aq) Arranging Zn, Fe, Cu and Al (metals) in decreasing order of reactivity based on the above result. Procedure: It comprises the steps to perform the experiment a proper sequence. Finding the image distance for varying object distances in case of a convex lens and drawing corresponding ray diagrams to show the nature of the image formed. Experiment 10. CBSE Class 10 Science Practical Book 2022 For Term 1 & Term 2 You can also download the Chapter-wise CBSE 10th Science Practicals PDF from the below link and boost your practical exam preparation level; Download CBSE Class 10 Science Lab Manual Book PDF List of Experiments For CBSE Class 10 Science Practicals 2022 For Term 1 & Term 2 You will find the list of experiments in CBSE Class 10 Practicals for Science 2022 For Term 1 & Term 2: CBSE Class 10 Biology Practicals 2022 For Term 1 & Term 2 Here you can check the CBSE Class 10 Science Practicals For Biology 2022 For Term 1 & Term 2. It Also include the error sources that arise due to the limitation of the equipment. Identification of the different parts of an embryo of a dichot seed (pee, gram or bean of suction). How does carbon dioxide gas enter the leaves? Execution and observation of the following reactions and classify them in: reaction decomposition reaction reaction reaction reaction reaction reaction double shift reaction action of water on rapid times heat action on iron nails iron crystals iron sulphate held in copper sulphate solution The reaction between sodium sulphate and barium chloride solutions Experiment 3. Experiment 6. The school administration will conduct the practical examination of CBSE 10 and scientific projects for class 10 evaluations internally. He will also motivate you to learn new facts. Precautions and sources of errors: includes all precautions observed during the conduct of experiments. You will learn problem solving strategies and group learning skills while performing activities through kits. You may have lower grades, but you won't fail. It is a humble request not to do please, do not do commercially provided study material. Personal terms like us, me, you, them and he or she are included in these expressions. Biology Details Class 10 Practical Notes PDF Download Note Name: ā Biology Class 10 Practical Notes PDFNotes Size: Ā 6 Pages mBtotal: ā 16 pages of the note language: EnglishFormat: ā pdfa (format of portable documents) Note type: Type of handwriting: Like hink? Ā Google DriveCredit: ā MKA Preview Biology Class 10 Practical Notes PDF Download Links of Biology Class 10 Practical notes PDF Here we will provide the download link for āĀ œBiology Classe 10 Practical notes PDF ". We treated the detailed guide on CBSE Class 10 Science Practicals. Measuringof incidence, refractive angle, emergency angle and interpret the result. Just click on the "Click Here" Here buttonTo download the notes. These projects will promote your creativity and a spirit of investigation and help you understand the application of the science subject. Determination of the equivalent resistance of two resistance when they are connected to series and parallel. Determination of the focal length of: Concave lens mirror Convex obtaining the image of a distant object experimentation 11. Students will have a better understanding of the concept in a better way by observing the changes that take place in front of their eyes during the execution of the experiments. You will receive votes of transition from your teacher. Experimentally shows that carbon dioxide is administered during breathing. Take the path of a ray of light that passes through a rectangular glass plate for different corners of incidence. CBSE Class 10 scientific practices play an important role in the development of your knowledge. Objective: it covers the objective of the experiment. You will undoubtedly receive passing votes in CBSE Class 10 Practical Sciences. Experiment 5. Please use these notes or study material for your knowledge and preparation of the exam, use it for better preparation for the exam. Study the dependence of the potential difference (V) through a resistor on the current (i) passing through it and determine its resistance and also the plot of a graph between V and I. because the sulfur dioxide is collected by moving towards The high of the air? Which by -product of fermentation is useful in the beer industry? Without practical work, science is nothing. Calculations: the calculations are made according to the observation using the formulas. Experiment 12. It also includes diagrams to present the pictorial vision of the experiment. Revised CBSE Class 10 Science Practical Planning Schemes 2022 For Finaning 1 & elatoI elatoI ĩhram 50 ollofroP ĩhram 50 octarp oroval ĩhram 50 + ĩhram 50 tñemssessA cidoireP emehcS emehcS 01 anretni enoizatulav id essalc .obuges id otacidni " Ā anretni enoizatulav al rep arutacram id amehcs ol2 Detailed brands CBSE class 10 Syllabus Practical 2022 for term 1 and term 2 you should know that the practices are linked to the concept taught in the theoretical classes. Prepare temporary support of a peel to show the stoma. The process of execution of the activity is mentioned in the passages. We hope you respect the ā Ē āĒ our hard work. After clicking on this button you will be redirected to Google Drive, where you can download these notes (Biology Class 10 PDF practices notes ") by clicking on the upper corner of the right side. They track the path of the rays of light through a Glass prism. To download the NCERT manual of the class 10 scientific kit in PDF format Click the link below; Download the scientific manual kit Ncert 10 PDF Each activity in the NCERT 10 Scientific Manual Kit is explained in detail and covers the following Points: The materials necessary to carry out the activity. CBSE Class 10 Chemistry Practicals 2022 for term 1 and term 2 here you can check the CBSE 10 science practicals for chemistry 2022 by term 1 and term 2. Scientific laboratory manual CBSE 10 2022 For term 1 and term 2 you will find the following points in each experiment in the CBSE manual class 10 Science Lab 2022 for the term 1 and the term 2. Theory: cover the principles, L and read or the basic theories behind each experiment. Study on mobile devices and tablets can damage your eyes. How are the magnetic field lines of a thread that transport the straight current different from the field lines of a bar magnet? The last part covers the work of the project, with a total of 111 projects. Experiment 15. Here we are only providing the connections of study material that is already available on the internet. List of experiments for science cbse 10 science practicals experiment 1 find the pH of the following samples using the onegordi onegordi atulid enomil id occus id enoizulos otulid ocionate odica id enoizulos atulid HOaN enoizuloS ociorolcordi odica erulid :elasrevinu erotacidni/Hp Fo yticapac gñinaelc evitarapmoc eht fo yduts .woleb nevig Sa suballys eht ni Slacitcarp 51 Foot esirpmoc Slacitcarp EcneiCs 01 SSALC ESBC .shparg eht Ward ot eval yam uoy, stem Nõitavresho Ruoy Si Tahw 2 Mret & 1 Mret ROF 2202 Sñoitseq Tnatropmi Lacitcarp EcneiCs 01 SSALC ESBC 2 Mret & 1 Mret ROF 2202 EcneiCs 01 SSALC ESBC ROF Sknil Tnatropmi Rehto ā ā Ē.woleb nwohs et. sgnidaer elbatrofmoc rof)woleB neviG(Ā ĀřdP setoN lacitcarP 01 ssalc ygoloiBĀ Āfo tuo tñirp a ekat uoy tseugus eW 4 tñemirepX .dennacs ron detaerc rehtien .koob siht nwo ton seod)ni.setonnettirwdnah/;spth(ew. 2 mret & 1 mret rof 2202 scisyhp rof Slacitcarp ecneicics 01 ssalc esbc eht kcohc nac uoy ereh 2 mret & 1 mret rof 2202 slacitcarp scisyhp 01 esbc esbc .tik launam ecneic Fo Sliated eht ĩla dnif ĩliw uoy.cte, sloot , Erawssalg, Slacimehc, Smeti Larege Dna Cifitneic Sah tik tik tik eht? 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