

STD XII - CHEMISTRY

Time : 3 hrs.]

MARCH - 2013

[Marks : 70

SECTION - I

Q. 1. Select and write the most appropriate answers from the given alternatives for each sub-question :

[7]

- (i) In body centred cubic structure the space occupied is about _____.
 (a) 68% (b) 53% (c) 38% (d) 32%
- (ii) For a gaseous reaction the unit of rate of reaction is _____.
 (a) L atm s^{-1} (b) $\text{atm mol}^{-1} \text{s}^{-1}$ (c) atm s^{-1} (d) mol s
- (iii) Which of the following compounds contains S = O as well as S = S bonds?
 (a) Sulphuric acid (b) Thiosulphuric acid
 (c) Sulphurous acid (d) Thiosulphurous acid
- (iv) Which of the following solutions shows maximum depression in freezing point?
 (a) 0.5 M Li_2SO_4 (b) 1 M NaCl (c) 0.5 M $\text{Al}_2(\text{SO}_4)_3$ (d) 0.5 M BaCl_2
- (v) For a chemical reaction $dS = -0.035 \text{ kJ/K}$ and $dH = -20 \text{ kJ}$. At what temperature does the reaction turn nonspontaneous?
 (a) 5.14 K (b) 57.14 K (c) 571.4 K (d) 5714.0 K
- (vi) The standard e.m.f. of the following cell is 0.463 V

$$\text{Cu}_{(s)} \mid \text{Cu}^{++}_{(aq)} (1\text{M}) \parallel \text{Ag}^{++}_{(aq)} (1\text{M}) \mid \text{Ag}_{(s)}$$
 . What is the standard potential of Cu electrode?
 (a) 1.137 V (b) 0.337 V (c) 0.463 V (d) -0.463 V
- (vii) Fe_2O_3 is reduced to spongy iron near the top of blast furnace by _____.
 (a) H_2 (b) CaO (c) SiO_2 (d) CO

Q. 2. Answer any SIX of the following :

[12]

- (i) Distinguish between crystalline solid and amorphous solid.
- (ii) State Kohlrausch Law and write mathematical expression of molar conductivity of the given solution at infinite dilution.
- (iii) Write cell reactions in lead storage battery during discharge.
- (iv) Draw structures and write geometry of PCl_3 and PCl_5 .
- (v) Prove that $\Delta H = \Delta U + \Delta nRT$. What is the condition under which $\Delta U = \Delta H$?
- (vi) Mention names and formulae of two ores of aluminium.
- (vii) Derive the relationship between relative lowering of vapour pressure and molar mass of nonvolatile solute.
- (viii) What is pseudo first order reaction? Give one example of it.

Q. 3. Answer any THREE of the following :

[9]

- (i) Calculate the mole fraction and molality of HNO_3 in a solution containing 12.2% HNO_3 . (Given - atomic masses : H = 1, N = 14, O = 16)
- (ii) Consider the reaction -



What are the values of the following at the same time ?

- (a) $-\frac{d[\text{I}^{-}]}{dt}$ (b) $-\frac{d[\text{S}_2\text{O}_8^{2-}]}{dt}$ (c) $-\frac{d[\text{I}_3^{-}]}{dt}$

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Hussin A.Rothana



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these regions of growth are good for studying the cell cycle because at any given time you can find cells that are undergoing mitosis in order to examine cells in the tip of an onion root a thin slice of the root is placed onto a microscope slide and stained so the chromosomes will be visible the cells you ll be looking at in this activity

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compare and contrast mitosis and meiosis both mitosis and meiosis are involved in making new cells both start with diploid 2 sets of chromosomes o interphase occurs before both duplicating chromosomes before division o both mitosis and meiosis go through pmat prophase metaphase anaphase telophase meiosis goes through pmat twice i

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the cell cycle results in the formation of two genetically identical daughter cells from the division of a parent cell in this lab you will be observing plant cells onion in the various stages of mitosis and make time calculations based on the data you collect

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observing mitosis analysis and conclusion questions 1 mitosis is much the same in animal cells as in the plant cells you have examined what can you infer from this about the origins of mitosis a i can infer that the start of cell all came from one cell and where that cell came from we do not know but it was the start from that cell it when through the process of binary fission

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mitosis introduction in this lab you will examine the dividing root tip cells of an onion you will examine the specimen to identify the various phases of the cell cycle to see which phases cells spend more time in and you will answer related analysis questions to further your understanding of the eukaryotic cell cycle pre lab

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sep 14 2021 the process of mitosis is only a short period of the lifespan of cells mitosis is traditionally divided into four stages prophase metaphase anaphase and telophase the actual events of mitosis are not discreet but occur in a continuous sequence separation of mitosis into four stages is merely convenient for our discussion and organization

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jul 25 2019 procedure 1 create a data table with the following headings across the top number of cells percentage of all cells time min and the stages of mitosis down the side prophase metaphase anaphase telophase 2 carefully put the slide on the microscope and focus it under low power 40x is preferred 3

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feb 23 2022 many cells will be in various stages of mitosis number of words 244 words aim to study the image of onion cells under a microscope and identify actively dividing cells throughout mitosis during the cell cycle s phases materials and

methods refer to the practical activity handout dna observing mitosis results

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discuss the answers to the questions with a partner think pair share and then the class activity 2 observe the stages of mitosis in onion root cells plant cells also use mitosis for growth maintenance and repair

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after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and meiosis recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in animal and plant cells

mitosis in real cells the biology corner - Dec 16 2022

the onion root is also a good place because this is the area where the plant is growing remember that when cells divide each new cell needs an exact copy of the dna in the parent cell this is why mitosis is only visible in cells that are dividing like the whitefish embryo and the onion root tip mitosis can take several hours to complete

lab 9 eukaryotic cell division mitosis and - May 21 2023

exercise 1 observing mitosis under the microscope examine prepared slides of both plant cells onion allium root tip and animal cells whitefish blastula under the microscope at 400x

onion root tip mitosis stages experiment and results - May 09 2022

in general mitosis occurs through several stages that include prophase divided into prophase and prometaphase metaphase anaphase telophase because of the rapid rate at which onion root tips grow as a result of rapid cell division it s possible to observe and identify the different stages of mitosis

core practical 3 observe mitosis in root tips pearson qualifications - Jul 23 2023

observe mitosis in root tips practical activities have been safety checked but not trialled by cleapss users may need to adapt the risk assessment information to local circumstances core practical 3 observe mitosis in root tips objectives know how to prepare a temporary slide of a root tip to observe mitosis

observing mitosis snab biology - Oct 14 2022

feb 7 2017 view under a microscope and identify the stages of mitosis results calculations the percentage of cells in each stage of mitosis can be observed and noted down a mitotic index can also be formed number of cells containing visible chromosomes total number of cells in the field of view conclusion

solved exercise 2 observing mitosis in cells chegg com - Jun 22 2023

exercise 2 observing mitosis in cells in this exercise you will observe the steps of mitosis in both plant and animal cells procedure review the images of onion root tip cells undergoing the different phases of mitosis shown in figure 10 figure 10

study of mitosis in onion root tip cells cell division process - Jun 10 2022

to study and demonstrate the mitotic type of cell division using the onion root tip cells mitosis results in the formation of two daughter cells that are identical to each other learn how the experiment is carried out

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