

Fifth Semester B.E. Degree Examination, December 2012
Manufacturing Process – III

Time: 3 hrs.

Max. Marks: 100

*Note: Answer FIVE full questions, selecting
at least TWO questions from each part.*

PART – A

1. a. With neat sketches, explain the classification of metal working processes on the basis of force applied. (10 Marks)
 b. Derive an expression for true stress and true strain. (05 Marks)
 c. An aluminum alloy having σ_u (uniaxial flow stress) as 500 MPa is subjected to three principal stresses, σ_x (Tensile) 200 MPa, σ_y = 100 MPa (Tensile), σ_z = 50 MPa (compressive) and shear stress = 50 MPa, will the material exhibit yielding. If not, what is the safety factor? (05 Marks)
2. a. Discuss the effect of various parameters on metal working process. (10 Marks)
 b. Explain deformation zone geometry. (05 Marks)
 c. Determine engineering strain, true strain and reduction.
 i) For a bar which is doubled in length.
 ii) For a bar which is halved in length. (05 Marks)
3. a. Derive an expression for forging pressure and load in open die forging by slab analysis in sliding friction at the interface and draw friction hill. (10 Marks)
 b. A circular disc of lead of radius 150 mm and thickness 50 mm is forged to half its original thickness by open die forging. Determine the maximum forging force if the coefficient of friction between job and the die is 0.25. The average yield stress is 4 N/mm². (05 Marks)
 c. Explain briefly the forging defects. (05 Marks)
4. a. With a neat sketch, explain different types of rolling mill arrangements. (10 Marks)
 b. Calculate rolling load if steel sheet is not rolled 30% from a 40 mm thick slab using (900 mm) diameter roll. The slab is 760 mm wide. Assuming μ = 0.3, the plain strain flow stress is 140 MPa at entrance and 200 MPa at the exit during rolling and 200 MPa at the exit during rolling and power required for hot reduction. Take N = 100 rpm and λ = 0.5 for hot rolling. (10 Marks)

PART – B

5. a. Write a note on estimation of redundant work in drawing. (07 Marks)
 b. Explain with a neat sketch, tube drawing process. (07 Marks)
 c. Explain optimal cone angle and dead zone formation in drawing. (06 Marks)
6. a. With a neat sketch, explain backward extrusion process. Why power involved in backward extrusion is much lesser than direct extrusion. (06 Marks)
 b. With a neat sketch explain impact extrusion process. (06 Marks)
 c. List out defects in extrusion and explain any one. (08 Marks)
7. a. Explain the following operations with neat sketches: i) Rubber forming ii) Stretch forming. (10 Marks)
 b. With neat sketches, explain the following dies:
 i) Progressive dies ii) Combination dies. (10 Marks)
8. a. With a flow chart explain the operations involved in making powder metallurgy parts. (08 Marks)
 b. Explain with a neat flow chart powder metallurgy process.

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the West as a main justification for Muslim residence in the West the wasati approach is pragmatic facilitating and integration minded whereas the salafi calls for strict application of religious norms and for introversion The volume examines diverse and highly debated juristic issues including the permissibility of naturalizing in non Muslim states participating in their electoral systems and serving in their militaries and police forces the permissibility of taking mortgages and student loans the permissibility of congratulating Christians on Christmas or receiving Christmas bonuses and the permissibility of working in professions that involve breaching of religio legal prohibitions e g serving pork Discussions highlight the diversity within contemporary Islamic jurisprudence and introduce new nuances to highly charged concepts such as proselytizing integration and multiculturalism

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observing mitosis lab background in a growing plant root the cells at the tip of the root are constantly dividing to allow the root to grow because each cell divides independently of the others a root tip contains cells at different stages of the cell cycle this makes a root tip an excellent tissue to study the stages of cell division

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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 phases of mitosis mitosis questions bacterial binary fission science biology library cell division the cell cycle and mitosis mitosis questions google classroom this cell is in which stage of mitosis choose 1 answer a b c d e

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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

2 2 observing mitosis biology libretexts - Sep 25 2023

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

dna observing mitosis name siti nur fazlina noordeen - Mar 07 2022

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

stages of mitosis in onion root cells lab manual for biology - Jul 11 2022

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

lab 8 the modeling and microscopic observation of mitosis and - Nov 15 2022

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

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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

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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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