

# Chapter 1

## 1.1 - Introduction to Cell Biology

<p>What is cell theory?</p>	<ul style="list-style-type: none"> <li>- Cells are the fundamental building blocks of all living organisms</li> <li>- Cells are the basic units of life</li> <li>- Cells are derived from other cells (by cell division)</li> </ul>
<p>Explain the three types of cell division.</p>	<ol style="list-style-type: none"> <li>1. <b>Mitosis</b> - two identical daughter cells, occurs in ALL body cells. Allows for growth and asexual reproduction in unicellular organisms.</li> <li>2. <b>Meiosis</b> - four unique daughter cells with ½ DNA and results in sex cells. Allows for sexual reproduction in most multicellular organisms.</li> <li>3. <b>Binary fission</b> - allows for reproduction in prokaryotes/bacteria cells</li> </ol>
<p>What are the eight functions of life?</p>	<p><b>GHRIMMEN</b>  <b>G:</b> Growth  <b>H:</b> Homeostasis  <b>R:</b> Reproduction  <b>I:</b> Irritability/response  <b>M:</b> Movement  <b>M:</b> Metabolism  <b>E:</b> Excretion  <b>N:</b> Nutrition</p>
<p>Apply the eight functions of life to paramecium</p>	<p><b>Growth</b> - increases in size, cytoplasm, # of organelles until cell division  <b>Homeostasis</b> - contains contractile vacuoles which regulate water; maintains internal environment through diffusion across the plasma membrane  <b>Reproduction</b> - asexual, binary fission  <b>Irritability/response</b> - cilia wave and propel cell in reaction to the environment  <b>Movement</b> - cilia propels cell around, cytoplasm flows through cell  <b>Metabolism</b> - aerobic cellular respiration in</p>

# Ib Biology Hl Question Bank

**Xiang Xie**



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leaders if the symbol has a leader click once to place the leader then click a second time to place the symbol multiple leaders while dragging the symbol and before placing it press ctrl the note stops moving and a second leader is added while still

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texture

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conventional method for designing surface finish as per is 696 surface texture specified by indicating the following a roughness value i e ra value in mm b machining allowance in mm c sampling length or instrument cut off length in mm d machining production method and e direction of lay in the symbol form as x m c r

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for jis symbols specify roughness ra roughness rz rmax for gost symbols you can also select use for notation displays the surface finish symbol 0 5 times larger than the default size add default symbol displays the default surface finish symbol in parentheses format use document font

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bs en iso 1302 2002 geometrical product specifications gps indication of surface texture in technical product documentation for notes on surface roughness use link surface roughness notes the symbol indicates the surface finish requirements and shows a machining allowance requirement of 3mm on all surfaces

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let s take a look how the jis defines each type of plating such as chrome plating and zinc plating the jis defines the types grades and symbols for electro galvanizing as shown in the table below

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1 positions of auxiliary symbols for surface symbol a surface roughness value cut off value or reference length machining method grain direction surface undulation etc are indicated around the surface symbol as shown in fig 1 below fig 1 positions of auxiliary symbols

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surface symbol symbol indicating a surface where removal processes are prohibited symbol indicating a surface that requires a removal process examples of indicating the ra upper limit a b c example of indicating grain direction examples of indicating ra upper limit and lower limit a b examples of indicating the machining method

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jan 6 2021 the basic surface finish symbol is a check mark with the point resting on the surface to be specified variations of this symbol provide additional instructions as described in the table below figure 5 surface finish symbols basics

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surface finish symbols you can specify the surface texture of a part face by using a surface finish symbol you can select the face in a part assembly or drawing document surface finish symbols are formed by combining the symbol and lay direction direction of lay

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use the toolbox surface finish symbol dialog box to configure the surface finish symbols you add to drawings to open the toolbox surface finish symbols dialog box do one of the following click surface finish symbols mechanical toolbox toolbar

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may 28 2023 the surface finish symbol standards refer to the internationally recognized guidelines and conventions for representing surface finishes on engineering drawings there are mainly two standards iso 1302 asme y14 36 you can follow the above standards when you need to use surface finishing symbols for your drawings

**understanding surface roughness symbols keyence america** - Jun 16 2023

understanding surface roughness symbols symbols that indicate the surface texture of machined and structural parts are used in industrial diagrams the pictorial representation using these symbols is defined in iso 1302 2002 this section will explain how to write these symbols to indicate surface textures terminology explanation