

# **LIFE SCIENCES - QUICK FIX - PAPER TWO**

## **MEIOSIS**

### **STRUCTURE AND ARRANGEMENT OF CHROMOSOMES IN A NORMAL HUMAN KARYOTYPE.**

- Each chromosome comprises two chromatids✓
- held together by a centromere✓
- There are 23 pairs✓/46 chromosomes in human somatic cells✓/body cells
- which are arranged into homologous pairs✓
- that are similar in length✓
- carry genes for the same characteristics✓
- have alleles of a particular gene at the same loci✓ and have the same centromere position✓
- Each somatic cell has 22 pairs/44 autosomes✓ and a pair/2 gonosomes✓/sex chromosomes/X and Y chromosomes
- Autosomes are arranged in pairs from largest to smallest✓ in a karyotype
- Males have XY chromosomes✓
- Females have XX chromosomes✓
- The X chromosome is larger than the Y chromosome✓

### **BEHAVIOUR OF THE CHROMOSOMES DURING THE DIFFERENT PHASES OF MEIOSIS I.**

- During prophase I ✓
- chromosomes pair✓/up/homologous pairs /bivalents form
- Crossing over✓/exchange of genetic material occurs between chromatids✓/adjacent chromosome pairs
- During metaphase I of meiosis
- homologous chromosomes✓/chromosome pairs are arranged at the equator✓/of the cell
- in a random✓ way
- with the chromosome attached to the spindle fibre✓
- During anaphase I ✓
- chromosome pairs separate✓/chromosomes move to opposite poles
- During telophase I ✓
- the chromosomes reach the poles of the cell✓

# 2grd1march Life Science Paper

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Saran,N. Soni**

## **2grd1march Life Science Paper:**

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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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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 micrometers b machining allowance in micrometers c sampling length or instrument cut off length in micrometers 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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to open the surface finish propertymanager do one of the following insert a new surface finish symbol click surface finish on the annotation toolbar or click insert annotations surface finish symbol select an existing surface finish symbol

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may 12 2020 it is suggested to indicate the surface roughness on drawing by symbols the bis recommended symbols for indicating the surface finish are shown in table a for the roughness values greater than 25 $\mu\text{m}$  the symbol is used for roughness value less than 25 $\mu\text{m}$  the equilateral triangular symbol is used

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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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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

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