

## LIFE SCIENCES - PAPER 1- QUICK FIXES

### DIFFERENCES BETWEEN MITOSIS AND MEIOSIS

| <u>MITOSIS:</u>                                                            | <u>MEIOSIS:</u>                                       |
|----------------------------------------------------------------------------|-------------------------------------------------------|
| • Mitosis involves 2 cell divisions                                        | • Mitosis involves 1 cell division                    |
| • Mitosis gives rise to somatic cells                                      | • Gives rise to somatic cells                         |
| • Cells produced are haploid                                               | • Cells produced are diploid                          |
| • Differs according to gender                                              | • Has no gender specification                         |
| • 2 phases                                                                 | • One phase                                           |
| • 4 daughter cells formed                                                  | • 2 daughter cells formed                             |
| • Half the number of chromosomes to the parent cell                        | • Same number of chromosomes in parent cell           |
| • All cells formed are genetically different to each other and parent cell | • Genetically identical to each other and parent cell |
| • Cells responsible for genetic variation in reproduction                  | • Cells responsible for growth and repair             |

### DIFFERENCES BETWEEN MEIOSIS I AND MEIOSIS II

| <u>MEIOSIS I</u>                                                         | <u>MEIOSIS II</u>                                            |
|--------------------------------------------------------------------------|--------------------------------------------------------------|
| • Crossing over occurs in prophase I                                     | • No crossing over occurs                                    |
| • Chromosomes arranged at the equator in homologous pairs in metaphase I | • Chromosomes arranged singly at the equator in metaphase II |
| • Homologous chromosomes pairs separate                                  | • Sister chromatids separate                                 |
| • Whole chromosomes are pulled to opposite poles in anaphase I           | • Chromatids are pulled to opposite poles in anaphase II     |
| • 2 diploid daughter cells produced                                      | • 4 haploid daughter cells produced                          |

### THE IMPORTANCE OF MEIOSIS

- Production of haploid gametes
- The halving effect of meiosis overcomes the doubling effect of fertilisation, thus maintaining a constant chromosome number from one generation to the next
- Mechanism to introduce genetic variation through:
  - Crossing over
  - The random arrangement of chromosomes at the equator

### ABNORMAL MEIOSIS

#### Non-disjunction and its consequences

- Non-disjunction of chromosome pair 21 during Anaphase I in humans to form abnormal gametes with an extra copy of chromosome 21
- The fusion between an abnormal gamete (24 chromosomes) and a normal gamete (23 chromosomes) may lead to Down syndrome

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*Study Guide for CTET Paper 2 (Class 6 - 8 Teachers) Mathematics/ Science with Past Questions* Disha Experts,2020-02-04      *22 Topic-wise CTET Paper 2 Social Science/ Studies Previous Year Solved Papers (2024 - 2011) Class 6 - 8 Teachers | Child Development & Pedagogy, English & Hindi Language* Disha Experts,2024-10-22 The First edition of the book 22 TOPIC WISE CTET Paper 2 Social Science Studies Solved Papers 2024 2011 English Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024 The past 22 CTET Solved papers included are June 2011 Jan Section II Social Science has 38Topics Section III English 11 Topics Section IV Hindi has 10 Topics The detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPET CGTET UKTET HPTET BTET PTET and other STET Exam

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web jun 30 2021 once the load balancer receives a request it determines which server in a pool is available and then routes the request to that server by routing the requests to available servers or servers with lower workloads load balancing takes the pressure off stressed servers and ensures high availability and reliability

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pass myapp1

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web fias tcp micros fidelio interface application over tcp smdr cdr data format and connection settings this data is being extracted with help of the advanced pbx data logger software only it may not applicable for other software titles selecting the correct parser for fias tcp micros fidelio interface application over tcp

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web fias stands for fidelio interface application specification it is globally accepted interface enabling seamless integration of property management system used for hotel operation with third party applications like wifi access by guests

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web nov 22 2018 the most popular pms systems support a tcp network protocol called fias which allows integration with pbx uc systems fias was developed by micros now oracle to allow communication between its pms fidelio and external systems such as pbxs keys management systems and pos

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web note fias is supported by the following pms systems from oracle hospitality oracle hospitality suite 8 any version oracle hospitality opera pms ver 4 x audience hotel property vendors integrating to oracle pms interface using fias protocol revision history date description of change november 2017 initial publication

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web oracle s fias fidelio interface application specification is a protocol specification used by different hospitality pms systems to exchange data this driver interprets check in and check out events and optionally exposes all received raw fias messages to

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web description fidelio is the hotel management system from company micros fias is the interface and the protocol allowing the communication with a saia pcd both serial rs232 and tcp ip communication are possible

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web fias or fidelio interface application specification is a protocol that can be used by any system to exchange data with opera pms and suite8 using the list of specified data types third party vendors can create functionality that will be supported in opera hotel interface ifc8

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web pop surrealism is an exhibition of work by 73 artists whose surrealist tendencies are informed by popular culture both pop art and surrealism have remained extremely influential on twentieth century art the artists in pop surrealism look deep into representations of contemporary culture mutating them with a surrealist s eye