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Class Test

| 241-19 | 5-218 Program :Semester : Spring/ Summer/ Year : |
|------------------|--|
| Course Code : | Course Title : |
| Class Test No. : | Signature of the Course Teacher : |
| In biology | industries which accelerat the |

paffodil university

Class Test

don't ID 241-15-918

Program: OSE

Semester : Spring Summer Year 24

Course Code OGE115 Course Title Introduction to Biology and Chemistry (K) Dute 18/02/24

Signature of the Course Teacher :...

Des means Distributed Control System. Oce is a tecnology that help to distribute the system for eaus very easy and step by step. In Biology and chemistry both field use Das to improve them production with low cost and low need of enarray.

Des works in mainly five step.

computer - computer computer product

minimize waste, and facilitate predictive maintecance in a very safe and effect way. We can do simple things but when are arre in the complex landscape then is it is so impotent to use Des for batter result.

Biologist and computer scientest both are deeply The field of science in biology and computer sel and information technology merge into a sing disciplane into the Biaf Bioinformatics.

Biologist are collect molicular information, ONA stracture, RNA stracture for recharge. And They use software to under stand the result or preadict the result. To do this They use goftware, database, superc computer and this are the field of computer seienge using in the field of Biology.

Biolosist arce can not do there job with out useing algoridhoms, data base from different country and many many software app those are made by computer scientist by use many kind of language like Forctan, G++, Java, phytone etc.

At last we can say that, The field of science in Biology and computer science, to



Daffodil International University Faculty of Science & Information Technology Quiz 1, Spring 2024

Course Code: CSE115

Course Title: Introduction to Chemistry and Biology for Computation Batch:66 Term: 1

Level: 1 Time: 40 minutes Marks: 15

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes, program outcomes. All portions of each question must be answered sequentially.]

| 1. | How would you define the captivating domain where biology, computer science, and information technology converge to forge new frontiers? Delve into the concept of this multidisciplinary fusion, exploring its potential to decipher the secrets of genetics, model intricate biological systems through algorithms, and revolutionize healthcare, agriculture, and beyond. Define The field of science in which biology, computer science and information technology merge into a single discipline | [5] | PO2 |
|----|---|-----|------------------|
| 2. | Envision a chemical industry where DCS (Distributed Control System) technology fuses seamlessly with computer systems. How might this innovative integration revolutionize chemical processes, ensuring real-time monitoring and precise adjustments? Summarize the diverse ways in which this advanced DCS-computer synergy could enhance safety protocols, streamline production, minimize waste, and facilitate predictive maintenance in the complex landscape of chemical manufacturing. | [5] | CO2 PO4 L2 |
| 3. | Imagine a convergence of technology and science in the chemical and biology industries. How can applications like 'BioChemSimulate,' powered by the 'GenoOpt Algorithm' and utilizing the 'BioData Nexus' database, revolutionize the process of drug discovery? Explain the algorithm, database name and purpose of 2 software of chemical and biology industries which accelerate the development of novel medicines while minimizing risks and costs? | [5] | CO3 PO1 L1 |