



Provincial Department of Education - North Western Province

Third Term Test 2020

Grade 10

Science I

Time = one hour

Name / Index number :

- Answer all questions.
- In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which you consider as correct or most appropriate.
- Mark a cross (x) on the number corresponding to your choice in the answer sheet provided.

01. The proteins which catalyze the chemical reactions in a cell or body are known as,
1) High proteins. 2) Amino acids
3) Enzymes 4) Antibodies
02. What are the factors which affect the pressure created by a liquid column?
1) Vertical height of the liquid column, Density of liquid and Gravitational acceleration.
2) Liquid volume, Density of liquid and Gravitational acceleration.
3) Density of liquid, Gravitational acceleration and Weight of liquid column.
4) Vertical height of the liquid column, Density of liquid and Up thrust.
03. The maximum number of electrons that may present in M energy level of first 20 elements in the periodic table is,
1) 2 2) 8 3) 18 4) 32
04. A and B diagrams show replicas created by students to show two organelles of a typical cell. These replicas represent.
1) Golgi body and mitochondria
2) Chloroplast and endoplasmic reticulum
3) Endoplasmic reticulum and Golgi complex
4) Mitochondria and chloroplast
05. The nature of motion of a fruit which was released from its petiole is,
1) Uniform velocity
2) Uniform deceleration
3) Uniform acceleration
4) Acceleration which increases gradually
06. What is the disease which is sexually transmitted by a bacterium?
1) AIDS 2) Gonorrhea 3) Genital warts 4) Herpes



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Nature Inspired Cooperative Strategies for Optimization (NICSO 2007) Natalio Krasnogor, Vincenzo Nicosia, Mario Pavone, David Alejandro Pelta, 2008-05-14 Biological and natural processes have been a continuous source of inspiration for the sciences and engineering. For instance, the work of Wiener in cybernetics was influenced by feedback control processes observable in biological systems. McCulloch and Pitts' description of the artificial neuron was instigated by biological observations of neural mechanisms. The idea of survival of the fittest inspired the field of evolutionary algorithms, and similarly, artificial immune systems, ant colony optimisation, automated self-assembling programming, membrane computing, etc., also have their roots in natural phenomena. The second International Workshop on Nature Inspired Cooperative Strategies for Optimization (NICSO) was held in Acireale, Italy, during November 8-10, 2007. The aim for NICSO 2007 was to provide a forum where the latest ideas and state of the art research related to cooperative strategies for problem solving arising from Nature could be discussed. The contributions collected in this book were strictly peer reviewed by at least three members of the international programme committee to whom we are indebted for their support and assistance. The topics covered by the contributions include several well-established nature-inspired techniques like Genetic Algorithms, Ant Colonies, Artificial Immune Systems, Evolutionary Robotics, Evolvable Systems, Membrane Computing, Quantum Computing, Software Self-Assembly, Swarm Intelligence, etc.

Affective and Schizophrenic Disorders Michael R. Zales, 1983 International Aerospace Abstracts, 1988 **Revista de administração de empresas**, 1989 *PNS Exam Papers*, 2011 **GNS II Exam Papers**, 2011 GNS III Exam Papers, 2011

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