

Republic of the Philippines
SULTAN KUDARAT STATE UNIVERSITY
College of Computer Studies
Isulan Campus - Isulan, Sultan Kudarat

GEC 003 – FINAL EXAMINATION

NAME: _____ **DATE:** _____

COURSE, YEAR & SECTION: _____

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I. MULTIPLE CHOICE. Select the correct answer and encircle the corresponding letter of your choice from the following items:

1. He is telling us that having one's heart in the right place is not good enough: being a good person requires a kind of practical intelligence as well as a good disposition.
a.) Archimedes
b.) Aristotle
c.) Charles Darwin
d.) Galileo Galilei
2. It defines good life, not from sensate pleasures but comes from living a life of virtue, a life of excellence of character.
a.) Happiness
b.) Contentment
c.) Satisfaction
d.) Blessedness
3. It is an ancient Greek word of the concept of living well and doing well.
a.) Eutychia
b.) Olbios
c.) Makarios
d.) Eudaimonia
4. Which of the following virtues refers to knowing what are just and admirable deeds and are learned through instruction.
a.) Moral virtues
b.) Intellectual virtues
c.) Cardinal virtues
d.) Virtue of temperance
5. This virtue refers to doing what are just and admirable deeds and are learned through habit and practice.
a.) Moral virtues
b.) Intellectual virtues
c.) Cardinal virtues
d.) Virtue of temperance
6. It is the application of scientific knowledge to the practical aims of human life or, as it is sometimes phrased, to the change and manipulation of the human environment.
a.) Technical
b.) Automation
c.) Computers
d.) Technology
7. It is another great product of the innovative minds of the people and an actuated mechanism programmable in two or more axes with a degree of autonomy, moving within its environment in order to perform intended task.
a.) Machine
b.) Android
c.) Robot
d.) Automation
8. It is a robot that performs useful tasks for humans or equipment excluding industrial automation application.
a.) Service Robot
b.) Personal Service Robot
c.) Executive Service Robot
d.) Professional Service Robot
9. It replicate in a computer the actions and functions of biological neurons found in the human body.
a.) Expert Systems
b.) Knowledge Engineering
c.) Neural Network
d.) Artificial Intelligence
10. Which of the following is responsible for the development of standards, codes of practices, guidelines, and recommendations on food safety.
a.) Cartagena Protocol on Biosafety
b.) Codex Alimentarius Commission (Codex)
c.) International Trade Agreement on Labeling of GM food and food products
d.) International Marketing Protocol on Food Products
11. International environmental treaty that regulates the transboundary movements of LMOs.
a.) Cartagena Protocol on Biosafety
b.) Codex Alimentarius Commission (Codex)
c.) International Trade Agreement on Labeling of GM food and food products
d.) International Marketing Protocol on Food Products
12. An agreement that requires exporters of GM food and food products to label their products and give rights to importing parties to reject or accept the GM products.
a.) Cartagena Protocol on Biosafety
b.) Codex Alimentarius Commission (Codex)
c.) International Trade Agreement on Labeling of GM food and food products
d.) International Marketing Protocol on Food Products

13. It is the branch of technology that deals with the manipulation and study of matter at a nanoscale.
 - a.) Chromosome
 - b.) Nanotechnology
 - c.) Nucleic Acid
 - d.) Genetic Code
14. The following are applications of Nanotechnology except:
 - a.) Water Purification Systems
 - b.) Standard Office Supplies
 - c.) Agriculture
 - d.) Medicine
15. These are basic cells that are able to develop into any type of cell in the body.
 - a.) Stem Cell
 - b.) Progenitor Cell
 - c.) Differentiated Cell
 - d.) Specialized Cell
16. This type of stem cell produce only a limited number of human cell types. They replace existing cells in the organ as they wear out and die.
 - a.) Embryonic stem cells
 - b.) Induced pluripotent cells
 - c.) Adult stem cells
 - d.) Mesenchymal stem cells
17. This type of Stem cell are created from leftover embryos that are willingly donated by patients from fertility clinics. This cells are pluripotent meaning they can generate all types of cells in the human body.
 - a.) Embryonic stem cells
 - b.) Induced pluripotent cells
 - c.) Adult stem cells
 - d.) Mesenchymal stem cells
18. This type of stem cell are regular skin, fat liver, nerve, or other cells that scientists have modified to behave like embryonic stem cells.
 - a.) Embryonic stem cells
 - b.) Induced pluripotent cells
 - c.) Adult stem cells
 - d.) Mesenchymal stem cells
19. It refers to the technique that allows genes and DNA to be transferred from one source to another, leading to the production of living modified organisms (LMOs) or genetically modified organisms (GMOs).
 - a.) Hereditary Manipulation
 - b.) Familial Modification
 - c.) Genetic Engineering
 - d.) Genetic Fixation
20. These are the organisms which result when a gene is taken from one organism to another organism in the laboratory for improving its functioning ability or for obtaining desirable results.
 - a.) Genetically Manipulated Organisms (GMO's)
 - b.) Genetically Modelling Organisms (GMO's)
 - c.) Genetically Miniatured Organisms (GMO's)
 - d.) Genetically Modified Organisms (GMO's)

II. IDENTIFICATION. Identify the appropriate terms found in the box that corresponds to the following items below. Write your answers on the blanks provided before the number.

Artificial Intelligence	Irrational/Intellectual
Alan Turing	Biotechnology
Stem Cell	Executive Service Robot
Nichomachean Ethics	Rational/Moral
Information Age	Technology

- _____ 21. It is also called the New Media Age. A period starting in the last quarter of the 20th century when information became effortlessly accessible through publications and through the management of information by computers and computer networks.
- _____ 22. He broke the Nazi code and developed the concept of computers.
- _____ 23. It refers to the use of machines to imitate the way humans think and behave.
- _____ 24. It is the use of biological systems, living organisms or derivatives thereof, to make or modify products or processes for a specific use.
- _____ 25. Undifferentiated cells with the capacity to both differentiate and multiply into the 200 cells types that form a human being.
- _____ 26. It came from the Greek words "techne" and "logos" which mean art and word, respectively.
- _____ 27. It is a service robot for a commercial task, usually operated by a properly trained operator.
- _____ 28. In this ethics, all human activities aim at some good. Every art and human inquiry, and similarly every action and pursuit, is thought to aim at some good; and for this reason the good has been rightly declared as that at which all things aim.
- _____ 29. This part of the soul is the Contemplative part (Intellectual) which deals with eternal truths of science and mathematics and right reasoning corresponds to truth.
- _____ 30. This part of the soul is the Calculative part (Moral) which deals with the practical matters of human life and right reasoning corresponds to proper deliberation that leads to making the right choice.

III. TRUE OR FALSE. Write TRUE if the statement is correct and FALSE if the statement is incorrect.

- _____ 31. Humans are distinctively rational animals, our telos must be based in our rationality.
- _____ 32. The ever-growing society has made people see technology as some form of luxury.
- _____ 33. The roles played by technology these days are very crucial not only to a few but also to everyone.

- _____ 34. The focus of Science & Technology and Society became "information" itself (handling and conveying it).
- _____ 35. Progress in electronics and computers caused information to be one of the most important commodities.
- _____ 36. During Galileo's and Newton's time, people were viewed as complicated mechanical machines. Today, the human mind is pictured as a complicated computer.
- _____ 37. Some of the benefits of Genetically-Modified Organisms include higher efficiency in farming and Increase in harvest.
- _____ 38. One of the potential risk of Genetically-Modified Organisms (GMO) is that human consumption might have the following effects: More allergic reactions, Gene mutation, Antibiotic resistance and Change in nutritional value.
- _____ 39. In medicine, nanotechnology has numerous applications in the development of more effective drugs.
- _____ 40. In the challenges of nanotechnology, due to its size, a nanoparticle is easy to analyze.
- _____ 41. Lack of information and methods of characterizing nanomaterials makes it a challenge to detect its concentration in air or in any matrix of the environment.
- _____ 42. The human body uses stem cells to replace worn out cells.
- _____ 43. Bone Marrow Transplant is a method of stem cell therapy that has been used for many years without controversy.
- _____ 44. Most of the controversies surrounding stem cell research focus on how embryonic stem cells are sourced where critics of stem cell research argue that sourcing stem cells from human embryos is ethical.
- _____ 45. Stem cells are currently being investigated for the treatment of certain cancers such as leukemia (cancer of the bone marrow) and other diseases.

IV. MATCHING TYPE

(Match Column A with Column B. Write the letter of your choice that corresponds to the given statement on the blanks provided before the numbers.)

- | A | B |
|---|----------------------------------|
| _____ 46. It is a service robot used for a noncommercial task, usually by laypersons. | a. Virtue |
| _____ 47. According to Aristotle, it depends on acquiring a moral character, where one displays the virtues of courage, generosity, justice, friendship, and citizenship in one's life. | b. Good Life |
| _____ 48. Two philosophers, Plato and Aristotle, deem it as the as the state in which a person exhibits total virtue. | c. Personal Service Robot |
| _____ 49. He was Plato's student who influenced all later Christian philosophers, including Augustine and Thomas Aquinas. | d. Happiness |
| _____ 50. It refers to the constant practice of good and excellence of character. | e. Aristotle |
| _____ 51. It is a method that consists of taking a denucleated female ovum (egg cell) and implanting a donor nucleus from a somatic (body) cell. | f. Climate Change |
| _____ 52. It refers to long term shifts in temperatures and weather patterns. These shifts may be natural, such as through variations in the solar cycle. | f. Climate |
| _____ 53. These are gases in the earth's atmosphere that trap heat. | g. Somatic Cell Nuclear Transfer |
| _____ 54. It refers to Long term state of atmospheric variables like rainfall and temperature. | h. Weather |
| _____ 55. It refers to short term changes in atmospheric variables such as temperature and rainfall and it is nature's way of balancing forces in the atmosphere. | i. Greenhouse gases |

V. ESSAY (15 points)

56. Explain the concept of Artificial Intelligence (AI).
57. Discuss the benefits and potential risks of Genetically Modified Organisms (GMO's).
58. Explain how can you fight Climate Change?

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