Unity University

Arega Campus

Emerging Technologies Group Assignment #2

Total Mark : 15%

Instructions

i. *These questions are based on Chapter 1 and 2. But you are required to read more from books and online materials to answer them.*
ii. *This assignment is a group assignment. You must form group of 5 people to work on it.*
iii. *Copying from other group will nullify your result.*
iv. *Submission date will be announced soon*
v. *You can submit PDF copy of your report via email or telegram.*

Questions

1. Compare and contrast Agricultural, Industrial and Technological civilization by putting into context its society namely Agrarian, Industrial and Information Society respectively. Elaborate how agricultural and industrial civilization contributed to the Technological (Information) society.
   In which category do you think Ethiopia falls and why?

   Additional reference:
   Toffler, Alvin. (1980). The third wave. New York: Morrow,
   (Summary of the book is attached to this assignment)

2. What is human computer interaction (HCI) and why is it important? Discuss how HCI changed across computers generations and it contributed to advancement of the technology. Don't forgot associating it with ergonomics.

3. Data Science is high paying job which requires multiple skills and interdisciplinary teams. If you are asked to lead a Data Science Project
   a. What would be composition of project team you will organize in terms of skills, educational background and work experience
   b. What type of Data Science projects you can work on? List all possible projects.
   c. Take one project example and explain data science life cycle it involves

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Questions

1. Do you think that it is good to make yourself exposed to every information on the internet? Why? Discuss your view clearly.

2. What are the most common ethical rules that must be applied in all technologies? Explain.

3. What are the Advantages and Disadvantages of Blockchain Technology? List and explain its possible real-life application in Ethiopia.

4. Explain why the following technologies are important to development of Ethiopia and how.
    a. Nanotechnology
    b. Biotechnology
    c. Cloud computing
    d. Quantum computing
    e. Computer Vision
    f. Cybersecurity