

QUESTION ONE (20 Marks)

- a) What is the definition of emerging technology (E.T.)? [2 marks]
- b) Justify your answer from (1a) by elaborating on the two definitions of E.T.s as described by Halaweh and Rotolo et al and comparing them with your definition [4 marks]
- c) In your answer from (1b) above compare where the two different authors may overlap in their definitions. Explain further in detail whether they contrast or not with your own definition in terms of: -
- {I} The central underlying concept and coherent meaning of an E.T.
 - {II} Common characteristics of an E.T.
 - {III} Any contradictory characteristics of an E.T.
- [5 marks]
- d) In reference to his statement "technology can still be considered emerging in one context even though it has been considered established in another" list four examples used by Halaweh to justify his position. For each point analyze his views and state whether you agree or not with the same [5 marks]
- e) As an area of study, emerging technologies lack key foundational elements namely a consensus on what classifies a technology as emergent, and strong research designs that operationalize central theoretical concepts. Based on this synopsis of the work done by Rotolo et al, critically and briefly analyze their discussion on the limits of current methodologies for detecting and analyzing emerging technologies [4 marks]

QUESTION TWO (5 Marks)

In his well-known piece, Bill Joy define the Luddites Vs non-Luddites challenge. With reference both to the article and the emerging trend of A.I.'s (Artificial Intelligence) being developed by technology companies today (e.g. Google home assistant, Amazon home assistant), discuss in detail which (if any) of the two over-arching themes of the technology argument is dominant in our time. Explain further how we as a society are addressing issues arising from it

QUESTION THREE (5 Marks)

Does quantum computing in the field of computer science engineering meet the threshold of being defined as an emerging technology? Explain your answer using two points from question 1.

In his response to Joy's pessimistic futurism article, John G. Messerly argues that an unknown future and unknown consequences are closely connected and therefore cannot be speculated upon. In your own words list any four arguments he critiques. In your closing summary convincingly discuss whether or not you agree with each point.

QUESTION FIVE (5 MARKS)

Name two methods/ ways in which technology can be adopted for use in an organization or society. Is it important or even necessary for developing nations like Kenya etc. to study the subject of Emerging trends? If so why and if not why? ✓