



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR

FOURTH YEAR 2ND SEMESTER
MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF SCIENCE AGRICULTURE
ECONOMICS AND RESOURCE MANAGEMENT

COURSE CODE: IAE 491
COURSE TITLE: TECHNOLOGY AND MODERN INDUSTRIAL
SOCIETY

DATE: 14TH OCTOBER 2021

TIME: 9 – 11 AM

INSTRUCTIONS TO CANDIDATES

Answer Question ONE and any other TWO Questions.

TIME: 2 Hours

This paper consists of 3 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

Question One

- a) Using examples where appropriate, distinguish among the following concepts as used in technology and modern industrial society. (3 Marks)
- i. Technology transfer and Technology diffusion (3 Marks)
 - ii. Technology invention and Technology innovation (3 Marks)
 - iii. Industrial revolution and Globalization (3 Marks)
- b) Describe any five characteristics that would influence a person's decision to adopt or reject an innovation (5 Marks)
- c) Explain the difference between traditional and modern industrial society in the context of technological change. (5 Marks)
- d) Describe the process of technological change. (5 Marks)
- e) Intellectual Property Rights (IPR) grant inventors certain exclusive rights over their creations to encourage creative activity for the benefit of society by allowing the inventors a fair return on their investments. Highlight the two major groups of IPR. (6 Marks)

Question Two

- a) Using illustration(s), discuss the 'Diffusion of Innovation Theory'. In your discussion, identify different strategies used to appeal to the different adopter categories. (10 Marks)
- b) Not all inventions are patentable. An invention must meet several criteria to be eligible for patent protection. Discuss any five such criteria. (10 Marks)

Question Three

- a) Technology and human life cannot be separated; society has a cyclical co-dependence on technology. In the context of this statement, discuss the negative effects of technology on the society. (10 Marks)
- b) Technology can be regarded as primary source in economic development. Discuss how the various technological changes contribute significantly in the development of underdeveloped countries. (10 Marks)

Question Four

- a) Discuss the concepts of appropriate and inappropriate technology. (10 Marks)
- b) Discuss the policy recommendations that you would give to a particular developing country with respect to choice of technology. (10 Marks)

Question Five

"Poor choice of technology can worsen unemployment situation particularly in the developing economies". Basing your argument on the above statement discuss the concepts of job creation and job destruction as a result of technological progress. (20 Marks)