



MACHAKOS UNIVERSITY

University Examinations 2020/2021

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF FASHION DESIGN AND MARKETING

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (COMMUNITY RESOURCE MANAGEMENT)

HCM 306: COMMUNITIES APPROPRIATE TECHNOLOGY AND INNOVATIONS

DATE: 12/8/2021

TIME: 8:30 – 10:30 AM

INSTRUCTIONS:

This paper consists of **five questions**.

Answer Question 1 and any other **two** questions

Question 1 carries 30 marks

Question 2-5 carry 20 marks each

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Explain the following
 - i) Technology hardware
 - ii) Technology software
 - iii) Appropriate Technology
 - iv) Innovation (8 marks)
- b) List four (4) problems associated with modern technology (4 marks)
- c) Describe three (3) examples of appropriate in your community (6 marks)
- d) Outline three (3) characteristics of new media technologies (6 marks)
- e) Explain how agro ecological technology is applied by smallholder farmers for food production (6 marks)

QUESTION TWO (20 MARKS)

- a) Technology is known to improve lives but also has negative effects at family level. Discuss Five (5) such negative effects as discussed in class. (10 marks)
- b) As a program manager at Drylands Natural Resources Centre (DNRC), discuss five (5) effective ways you will apply to foster innovation in the organization (10 marks)

QUESTION THREE (20 MARKS)

- a) Citing relevant examples, discuss 6 benefits of appropriate technologies as discussed in class. (12 marks)
- b) For any business or organization to be sustainable, they should embrace innovation. Briefly Discuss 4 ways in which innovation come about (8 marks)

QUESTION FOUR (20 MARKS)

Turmeric and Neem plants use for medicinal and nutritional purposes are considered as appropriate technology. Outline five (5) uses of each.

QUESTION FIVE (20 MARKS)

- a) As an employee of Caritas Kitui in charge of Outreach program, you have been tasked to promote appropriate technologies among the farmers you're working with. Citing relevant examples Discuss five (5) anticipated barriers of adoption of appropriate technology. (10 marks)
- b) During the last 3 decades, both developing and developed countries have been confronted by problems rooted mainly on technology. Describe 5 major technology challenges facing developing countries (10 marks)