10

(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

FIRST YEAR FIRST SEMESTER EXAMINATIONS SPECIAL EXAMINATION

FOR THE DEGREE OF MASTER OF SCIENCE IN CROP PROTECTION

COURSE CODE: BCP 814

COURSE TITLE: WEED SCIENCE & MANAGEMENT

DATE: THURSDAY, 4TH AUGUST 2022 **TIME: 8:00 – 11:00 A.M.**

INSTRUCTIONS TO CANDIDATES

Answer **FOUR** questions
Question **ONE** is Compulsory

TIME: 2Hours

MMUST observes ZERO tolerance to examination cheating

Compulsory

1. Describe a field experiment to confirm whether the weed species *Desmodium incanum* and *Commelina benghalensis*, under independent or combined use as cover crops, have allelopathic effect on *Striga hermonthica* in maize crop [15 marks]

Choose any three

2. Describe a research approach that could be used in selecting phytophagous insect species for classical biological control of an invasive weed [15 marks]

3. Discuss a research approach that could be used to identify the mechanisms of herbicide resistance in weed species within an agroecosystem [15 marks]

4. Discuss five (5) ecological processes by which some weeds could help enhance crop production [15 marks]

5. Explain five (5) mechanisms through which crop plants reduce the negative effects of weeds on growth and yields [15 marks]