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**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY
UNIVERSITY EXAMINATIONS 2023/2024**

EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE

TMM 3101: PATHOGENIC MICROBIOLOGY II

DATE: DECEMBER 2023

TIME: 3 HOURS

THE INSTRUCTIONS

Answer any Four (4) questions

Each question carries 25 marks

1. COVID-19 caught the world unaware but since then several prevention and control strategies have been identified to manage and reduce the spread and severity of viral respiratory infection pandemics. Outline any four Broader measures that can be applied in preparedness for a viral respiratory infection pandemic in a residential aged care facilities
2. Molecular diagnostic technology provides an improved choice for the diagnosis of infectious diseases compared to traditional diagnostic techniques, discuss
3. Describe what whole virus vaccines are and how they could be used against an infection
4. Anti-infectives are medicines that work to kill germs directly or prevent them from multiplying and growing, Several broad types of anti-infective drugs exist, depending on the type of organism targeted; describe any 4 anti-infectives.
5. Quality control and quality assurance jobs are all about ensuring the medication has been manufactured correctly and is safe to use, as well as having its desired effect, though these words are used interchangeably in pharmaceutical settings, they are different. Bring out this difference
6. From testing urine, to microscopy, to molecular testing, the sophistication of diagnostic techniques has come a long way and continues to develop at break-neck speed. Discuss

