



UNIVERSITY OF GHANA

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DEPARTMENT OF OPERATIONS AND MANAGEMENT INFORMATION SYSTEMS

MBA/MPHIL MIS SECOND SEMESTER EXAMINATIONS: 2019/2020

OMIS 602: SOCIAL AND LEGAL IMPLICATIONS OF INFORMATICS (3 CREDITS)

ANSWER ALL QUESTIONS

TIME ALLOWED: A TWO-DAY TAKE HOME EXAMS

NOTE: IN-TEXT CITATIONS AND REFERENCES ARE A MUST

Question 1 (a) State and explain **THREE (3)** key technology trends that raise social, legal and ethical issues in society.

(15 marks)

(b) *"It can be nearly impossible to assess all the potential applications of a technology, good and bad, and that's both the beauty and the horror of the issue"* ~ Shon Burton (HiringSolved). Using specific examples, briefly discuss this assertion.

(10 marks)

Question 2 (a) There is a growing phenomenon of what has been described as “deepfakes” on the internet. Briefly explain what deepfake is and state at least **THREE (3)** threats it poses to society.

(13 marks)

(b) Technological singularity is envisaged to happen in a future point in time.

- (i) Briefly explain the concept of technological singularity.
- (ii) Using **TWO (2)** examples, explain why technological singularity may already be prevailing in society.

(12 marks)

Question 3 Discuss the disruptive impact of Artificial Intelligence (AI) on economics, culture and society. What Management, Organisational and Technological measures can be employed to survive the threats of AI?

(25 marks)

Question 4 (a) Patent wars among leading technology companies have led some commentators to favour abolishing patent entirely. Examine the case for this point of view, and the suitability of copyright protection of software.

(15 marks)

(b) Discuss the extent to which advances in computing technologies have undermined Patent and Copyright Laws.

(10 marks)

Question 5 Internet censorship suppresses what can be accessed, published, or viewed on the Internet. Though the internet is home to more than 3 billion people, there are still countries that have a total ban or restrict access to certain web pages. Discuss **FIVE (5)** reasons why some countries restrict access to the Internet?

(25 marks)