



SCHOOL OF COMPUTING AND ENGINEERING SCIENCES
MASTER OF SCIENCE IN INFORMATION SYSTEM SECURITY
MST 8501: IT PROFESSIONAL ETHICS
END OF SEMESTER EXAMINATION 2024

Date: 16th December 2024 Dr. J. Branya 100 marks Time: 18:00 – 20:30

Answer Question 1 and any other THREE questions

Question 1. Give a short explanation of the following terms highlighting the ethical aspects (40 Marks, 4 marks each)

1. Natural Moral Law,
2. Moral Dilemmas,
3. Virtues,
4. Character,
5. Algorithm Transparency,
6. Ethical Algorithm
7. Accountability
8. Data Bias,
9. Ethical Data ownership,
10. Double Effect Principle,

Question 2. (20 marks) Some companies are **using predictive analytics** to following clients and employees performance. Using the six social ethical principles discuss the legal and positive and negative aspects that such use of data could bring.

PRINCIPLE	EXPLANATION	POLICY	MEASURE

Question 3. (20 marks) Your immediate manager is asking your team to go to another country for at least four weeks for an important project. This will interfere with the family duties and studies and other commitments your colleagues have. Using what you have learned from Giving Voice to Values, present a draft for each of the steps, to train the other members and have a common voice. (2 marks for each explanation, 1 mark for each plan, and 2 extra marks for the introduction to GVV).

PRINCIPLE	EXPLANATION	PLAN

Question 4 (20 marks) Explain how AI can assist to improve people’s five types of internal goods.

Question 5. (20 marks) “Social media use by minors has significantly increased and has been linked to depression and suicidality. Simultaneously, age-adjusted suicide rates have steadily increased over the past decade in the United States with suicide being the second most common cause of death in youth. Hence, the increase in suicide rate parallels the simultaneous increase in social media use. In addition, the rate of non-suicidal self-injury ranges between 14% and 21% among young people. Evidence suggests that self-harming youth is more active on online social networks than youth who do not engage in self-harm behavior.” *The role of online social networking on deliberate self-harm and suicidality in adolescents: A systematized review of literature. doi: 10.4103/psychiatry.IndianJPsychiatry_414_17*

Using the four levels of happiness prepare a draft article to assist secondary teachers to assist students to overcome negative attitudes coming from the use of social media

Level	Explanation	Example

Question 6 (20 marks) IQ, EQ and MQ are the three measurable elements to have a balanced personality. Your company asks you to prepare a recruitment test to access the suitability of candidates for delicate confidential positions. Indicate the elements of each of the three areas you will like to check and examples on how to do it. Finally write a formula to give a differential weight to each.
