

INTRODUCTION TO EMERGING TECHNOLOGY WORKSHEET ON CH-3 and CH-4

General Guidelines

- Weight: 20%
- Maximum number of pages: 20
- Attempt all Questions
- Date of Paper Submission: 25 May 2012 E.C through the following e-mail: **mekuaninit123@gmail.com**

1. How do you define the word Artificial? And the word Intelligence?
2. What do you think to make the machine think and make a decision like human beings do?
3. Why we need AI at this time?
4. What do you think the main goal of the advancement in AI?
5. Write down some disciplines which AI requires?
6. What do we get from using AI technology instead of previous reactive technology?
7. write down some disadvantages of AI?
8. Is it possible to map the way of human thinking to artificial intelligence components? If your answer is yes, why?
9. List down some influential factors that accelerate the rise of AI?
10. Is AI important to analyze structured or unstructured data?
11. Why is that the advancement in computer processing speed and architecture influence AI?
12. What is the cloud? What do you know about cloud computing?
13. What is the Internet of Things (IoT)
14. What is the advantage and disadvantage of IoT
15. Briefly discussed security requirements at a different layer of IoT?
16. What are the most frequently raised challenges that of IoT has been facing?
17. Explain the functions of each layer of IoT.

18. List and discussed at least three examples of IoT devices and their application?
19. What is the application of IoT in our day today life?
20. What are the main parts of the IoT system?
21. What are the security concerns related to IoT?
22. Explain IoT Protocol stack?
23. What is meant by a smart city regarding the IoT?
24. Give examples of the impact of IoT on our lives?
25. What influence will the IoT have on monetary growth?
26. Why will be the IoT successful in the coming years?
27. What impact will the IoT have on the health care sector?
28. What are the main social and cultural impacts of IoT?
29. What the main challenges of an IoT?
30. What role does the network play in the IoT of everything?
31. Briefly explain intelligence? What it is composed of?
32. Define artificial intelligence?
33. Why we need artificial intelligence?
34. Write down the driving factors which accelerated the rise of AI?
35. List down disciplines which artificial intelligence requires?
36. Write the pros and cons of AI?
37. Who coined the term AI for the first time?
38. Who is Alan Turing? What is his contribution to AI?
39. What are the seven stages of AI? Briefly explain each of them?
40. Based on the level of strength we can classify AI into three, briefly explain each of them?

41. Based on the functionality we can classify AI into four, briefly explain each of them?
42. Briefly explain the mapping of human thinking to artificial intelligence components?
43. Why big data influence the rise of AI?
44. Write down some applications of AI in agriculture, health, education, and business?
45. List down some well-known AI tools and platforms?
46. List down some concrete examples of AI in social media, online shopping, and mobile phone usage?