**ARTEC 2021 Reading Assignment 1**

**Paper**

Liljeros, F., Edling, C. R., Amaral, L. A. N., Stanley, H. E., & Aberg, Y. (2001). The web of human sexual contacts. *Nature*, 411(6840), 907-908.

**Questions**

1. What social network the authors investigated?
2. How did the authors collect data for analysis?
3. Which year and which country the data was collected?
4. State two key properties of a scale-free network.
5. How possibly the results presented in the paper are applied in a safe-sex campaign?
6. In the paper, the authors have mentioned a few factors which might explain why some respondents have more sexual partners than the others. What are they?
7. Describe the mechanism of preferential attachment in the formation of a scale-free network. (Look up the information from the references cited in the paper.)
8. Comment, with explanation, if the investigation could be replicated by you.
9. *Nature* is a prestigious journal. It has been indexed in the Web of Science. What is the journal impact factor (JIF) of *Nature,* according to the latest Journal Citation Report (JCR).
10. State three journal articles, published in 2021, which have cited this paper.

**Due Date and Submission**

The answers have to be compiled by a word processing software. The electronic document, preferred in WORD or PDF format, must be submitted to the following email account (pfsum@yahoo.com.hk) on or before September 19, 2021.

The email heading and the filename must be conformed to the following formats.

Heading: ARTEC2021\_StudentID\_Assignment01

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Suppose a student his/her student ID is 8109026102. The following formats will be the email heading and the filename.

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