THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF ENGINEERING TECHNOLOGY
MASTER OF TECHNOLOGY IN INDUSTRIAL ENGINEERING – LEVEL 7
FINAL EXAMINATION – 2007/2008
MEX 7118 – TECHNOLOGY MANAGEMENT
DATE : *28 APRIL 2008*
TIME : *0930 hrs – 1230 hrs*
DURATION: *Three (03) hours*

Answer any five (05) questions. All questions carry equal marks

Q1

(a) Explain the relationship between Science and Technology.

(b) Where are technology applied and what purpose is it applied?

Q2

(a) Define the area of study of the following disciplines Sociology, Economics, Psychology, Politics and Culture.

(b) Explain how they influence the formation, evolution and contribution of Technology to Society.

Q3

(a) It is said that the direction of the development of technology is mostly dependent on human ethics. Explain what is ethics and how true is the above point of view.

(b) What should be the ethical ingredients that technocrats should develop within themselves to strength the socially beneficial development of technology?.

Q4

(a) Differentiate the meaning of the concepts of Invention of Technology, Innovation of Technology and Technology Transfer.

(b) Explain the relevance of the term *Appropriate Technology* in the transfer of technology from the developed countries to developing countries

Q5

Explain in detail and critically comment on the following concepts;

(a) The relationship between organisational entropy and organisational processors.

(b) Social influences as a result of technological development.

Q6

(a) There is a never ending battle between the technocrats and the so called environmentalist. Should there be a battle and what should be the nature of this battle?

(b) What are the ethical and moral issues involved in resolving environmental issues in the application and propagation of technology?

Q7

Taking Sri Lanka as a nation identify, analyse and critically comment on the factors that influence (both good and bad) the application of appropriate technology to the development of Sri Lanka.

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