

FIRST SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY
MARCH, 2011

TECHNOLOGY IN SOCIETY
(Common—Except DCP and CABM)

[Time : 3 hours

(Maximum marks : 100)

PART—A

(Answer *all* questions in one or two sentences. Each question carries 2 marks)

- | | Marks |
|--|----------|
| I (a) List the contributions of India in Civil Engineering during Indus Valley Civilization. | |
| (b) History has reserved two roles for Arabs in the story of science and technology. What are they ? | |
| (c) List the important renewable energy options. | |
| (d) Define appropriate technology. | |
| (e) What is the advantage of geosynchronous orbit ? | (5×2=10) |

PART—B

(Answer any *five* questions. Each question carries 6 marks.)

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|--|----------|
| II (a) The challenges faced by engineers in Egypt were different from those faced by engineers of Mesopotamia. Give details on this statement. | |
| (b) Middle ages is considered as dark age for science and not so in the case of technology. Write examples to support this. | |
| (c) In Roman civilization Roman cities needed large volume of water for their daily use. Discuss how they met this situation. | |
| (d) Discuss the impact of mobile phones on society. | |
| (e) Examine the role played by big corporation in developing technology. | |
| (f) Explain how electricity has influenced communication revolution. | |
| (g) Discuss whether solar energy can meet future energy demands. | (5×6=30) |

PART—C

(Answer *one* full question from each unit. Each carries 15 marks)

UNIT—I

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|--|---|
| III (a) Discuss the salient features of Indus valley civilization. | 8 |
| (b) Describe Roman contributions in the development of technology. | 7 |

OR

		Marks
IV	(a) Write in detail about the contributions made by China in the development of technology.	8
	(b) Give the details of major contributions made by Greek civilization in the development of technology.	7
UNIT—II		
V	(a) Examine the development of mills over the ages and its influence on development of technology.	8
	(b) Leonardo Da Vinci is treated as a symbol of the spirit of renaissance even though he is known as an artist. Why?	7
OR		
VI	(a) The demand for iron is related to industrial revolution. Give your comments on this statement with suitable examples.	8
	(b) Coal is considered as the fuel for industrial revolution. Comment on this statement.	7
UNIT—III		
VII	(a) The development in space exploration started with the use of an ancient Chinese rocket. Discuss the technological developments or rocketry.	8
	(b) Give the promises and threats of Nano Technology on society.	7
OR		
VIII	(a) Explain the renewable energy options available for use in future.	8
	(b) Examine how internet is transforming the society.	7
UNIT—IV		
IX	(a) Explain how technology shapes society.	10
	(b) Describe about the impact of technology on the environment.	5
OR		
X	(a) Describe the results of green revolution in India and its impact on society.	8
	(b) Examine the impact of technology on culture.	7