

Summer 2018
SOCIETY AND ENVIRONMENT

Time : Three hours

Maximum Marks : 100

*Answer FIVE questions, taking ANY TWO from Group A,
ANY TWO from Group B and ALL from Group C.*

All parts of a question (a,b,etc.) should be answered at one place .

Answer should be brief and to-the-point and be supplemented with neat sketches.

Unnecessary long answers may result in loss of marks.

Any missing or wrong data may be assumed suitably giving proper justification.

Figures on the right-hand side margin indicate full marks.

Group A

- | | | |
|----|--|----|
| 1. | (a) Define and explain Sociology in brief. | 10 |
| | (b) Differentiate Sociology from Political Science. | 5 |
| | (c) "A student of engineering need to study Sociology".
Justify the statement | 5 |
| 2. | (a) Write in brief the origin of caste system in India and its present status. | 10 |
| | (b) Write a critical note on culture. | 5 |
| | (c) Explain the concept of occupation. | 5 |
| 3. | (a) Define and explain in brief Mobility. | 10 |
| | (b) Write in brief the main reasons behind Crime. | 5 |
| | (c) Suggest in brief the ways to achieve Tribal Welfare. | 5 |
| 4. | (a) Suggest in brief five means of skills Development in India. | 5 |
| | (b) Define science, Engineering and Technology. | 5 |
| | (c) Define and explain brief Appropriate – Technology. | 5 |
| | (d) Write a short note on technology Adaptation. | 5 |

Group B

- | | | |
|----|--|----|
| 5. | (a) Explain in brief five causes of water pollution. | 10 |
| | (b) Write in brief the main causes of noise pollution and its effect on mankind. | 5 |
| | (c) Define clearly the sustainable Development. | 5 |
| 6. | (a) Write a critical note on Oxygen Cycle. | 10 |
| | (b) Define and explain Acid rain. | 5 |
| | (c) Define and explain global warming. | 5 |
| 7. | (a) Explain in brief various methods of control solid wastes | 10 |
| | (b) Write a critical note on thinning of Ozone layer and its prevention. | 10 |
| 8. | (a) List five agriculture wastes. Explain in brief heir utilization. | 10 |
| | (b) With a simple flow diagram, describe a method of manufacture particle boards from wastes | 10 |

Group C

9. Answer the following:
- (i) Match the following:
- | | |
|------------------------------------|-------------------|
| (a) World pollution prevention Day | (i) 22 March |
| (b) World Water Day | (ii) 05 June |
| (c) Mother Earth Day | (iii) 02 December |
| (d) World Environment Day | (iv) 22 April |
- (ii) What are the four main castes in India ?
- (iii) Why are plastics harmful to environment?
- (iv) List four consequences of inequality.
- (v) Mention four measures to prevent Brain – Drain.
- (vi) List four chemical elements required by mankind.
- (vii) Define Environment in one sentences

- (viii) Define an environmental pollutant based on Environmental protection Act of Government of India.
- (ix) What is the main causes of Green Houses Effect?
- (x) Match the following:
- | | |
|-----------------------------|-------------------|
| (a) National Science Day | (i) 15 September |
| (b) Clean Ganga Pledge Day | (ii) 28 September |
| (c) National Technology Day | (iii) 02 May |
| (d) Engineer's Day | (iv) 11 May |

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Study materials,
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Winter 2017

SOCIETY AND ENVIRONMENT

Time : Three hours

Maximum marks :100

Group A

- | | |
|--|----|
| 1. (a) Explain various type of social stratification? | 5 |
| (b) What are the main causes of social tension in society? | 5 |
| (c) Explain major attributes of cast system? | 5 |
| (d) Differentiate between society and community | 5 |
| 2. (a) Explain various parameters of social development? | 5 |
| (b) Write five stages of Economics Growth | 5 |
| (c) Narrate the role of science and technology in the development | 5 |
| (d) discuss the role of 'NITI' ayog in economic development of the country. | 5 |
| 3. (a) Discuss the role of ergonomics in technology development. | 5 |
| (b) Explain the factors which are to be considered before the introduction of New technology | 5 |
| (c) What is appropriate technology syndrome ? | 5 |
| (d) Discuss the pitfalls of technology transfer. | 5 |
| 4. (a) Discuss the Euroquip 'T' method of technology transfer | 10 |
| (b) Discuss the factors which contribute to sustainable development. | 5 |
| (c) Discuss various types of occupational hazards | 5 |

Group B

- | | |
|--|---|
| 5. (a) What are the various component of Biosphere ? | 5 |
| (b) Explain characteristics of food chain | 5 |
| (c) Explain different type of ecological pyramid. | 5 |
| (d) Discuss various causes of eco-imbances. | 5 |

6. (a) Discuss causes of environmental pollution . 5
 (b) Explain main source of air pollution. 5
 (c) Narrate various causes of soil pollution . 5
 (d) How 'global warming ' can be controlled? 5
7. (a) Explain various waste disposal methods 5
 (b) What is 3R principle of waste management ? 5
 (c) Write a brief note on Agriculture related environmental pollution 5
 (d) Explain basic component of a pond Ecosystem . 5
8. (a) Discuss how to dispose urban waste properly. 5
 (b) What is Geothermal Energy? Discuss its disadvantages. 5
 (c) What is Solar Distillation? 5
 (d) Define SMOG ? What are its components ? 5

Group C

9. (A) Write the full form of the following 5
 (i) ABM
 (ii) ICAR
 (iii) IRDA
 (iv)NATO
 (v)ZSI
- (B) Match the Author and the Books 5
- | <u>Books</u> | <u>Authors</u> |
|--------------------------------------|-----------------------|
| (i) Truth always prevails | (a) Anuradha Roy |
| (ii) Runs in Ruins | (b) Anupam Kher |
| (iii)The best thing about you is you | (c) NR Narayana |
| (iv)A better India: A Better World | (d) Sunil Gavaskar |
| (v) Sleep on Jupiter | (e) Sadeudin Hashwani |
- (C) (i) The ocean cover _____ of the surface of the earth
 (ii)The role of chlorophyll in photosynthesis is _____
 (iii)Non-conventional source of energy best suited for India is _____
 (iv)Protective foods in our diet are _____
 (v)Blue revolution is related to _____ 5
- (D) (i) Which is the coldest planet in the solar system?
 (ii)Indian organization has designed and build the Dr.APJ Abdul Kalam Memorial?
 (iii) Which is the land of the Rising Sun ?
 (iv) How many square are there in a chess Board ?
 (v)Who discovered the Black Hole Theory? 5

Society and Environment Summer 2017

Time : Three hours

Maximum marks : 100

Group A

1. (a) What principles of Science can be applied to study sociology? 5
 (b) Do you think that social stratification system is changing due to socio-economic challenges 5
 (c) "Unequal distribution of income in the society has created social conflict ". Discuss 5
 (d) As a socially responsible citizen, what needs to be done to eradicate corruption? 5
2. (a) What is social justice? 5
 (b) How gender equality can help the society to resolve conflict? 5
 (c) What are the various parameters of social development? 5

- (d) Discuss the role of 'NITI AYOJ' in economic development? 5
3. (a) What are the main targets for the development process and how it can be achieved? 10
 (b) Do you think that increase in population would affect the development of a country? What need to be done to control the growth rate of the population? 10
4. (a) What are the stages of the development of technology? Differentiate between indigenous technology and appropriate technology. 5
 (b) What are the various criteria that can be considered to select a industry for appropriate technology transfer? 5
 (c) What is bio magnification and its impact on organisms? 5
 (d) What are the factors affecting the climate change? 5

Group B

5. (a) How engineers can contribute to sustainable development? 5
 (b) How grassland ecosystem is different from desert ecosystem? 5
 (c) What is biogeochemical cycle and how life is related with it? 5
 (d) How do we measure air pollution? How it can be prevented? 5
6. (a) Discuss the impact of global warming on agriculture sea water level and marine food. 5
 (b) What is the cause of depletion of ozone layer in atmosphere? 5
 (c) Discuss the physical, chemical and biological effect of thermal pollution. 5
 (d) How do we measure water quality through biological oxygen demand and chemical oxygen demand? 5
7. (a) Discuss the process of deriving energy from municipal solid waste? 5
 (b) What do you understand by 'life-cycle' assessment of a product? 5
 (c) Discuss the role of pollution control boards in maintaining air quality standards. 5
 (d) What are the sources of noise? Discuss its adverse impact on human being 5
8. (a) How recycling of paper, glass and metal can help in solid waste management? 5
 (b) Discuss the process of managing bio-medical waste. 5
 (c) Discuss the role of solar energy in saving the environment. What are the various application of solar energy? 10

Group c

9. (a) write the full form of the following: 5
 (i) NEERI
 (ii) IAEA
 (iii) IUCN
 (iv) NAFED
 (v) WMO

(B) Match the authors and the books (5m)

Books	Authors
a. We the people	(i) Jhumpa Lahiri
b. My country my life	(ii) Chetan Bhagat
c. One life is not enough	(iii) Natwar Singh
d. Half girlfriend	(iv) L K Adwani
e. Unaccustomed earth	(v) Nani Pallainali

- (C) (i) The process of turning gas into liquid is called -----.
 (ii) Pollination by birds is called -----.
 (iii) Yeast used in making bread is known as -----.

- (iv) Gobar gas mainly contains -----.
- (v) -----gave the first evidence of the big bang theory. (5m)
- (D) (i) Which Indian state has the largest inland saline wetland?
- (ii) Who was the first person who invented atomic numbers?
- (iii) What is the unit for measuring speed for data transmission?
- (iv) What is mixed economy?
- (v) Which crop is cultivated for ethanol? (5m)

WINTER 2016
SOCIETY AND ENVIRONMENT

Time : Three hours
Maximum marks : 100

GROUP A

1. (a) Why should a student of engineering study sociology? 14
- (b) Name two major fields of Sociology 4
- (c) Name a famous sociologist. 2
2. (a) Write a short note on caste system in India. 12
- (b) Write the simplest form of Pareto's law mathematically. Explain each term. 8
3. (a) What is plan holiday? 6
- (b) What is rolling plan? 6
- (c) Who gave the idea of planned economy for India? Write a brief note on him. 8
4. (a) Write a brief critical note on Charles Darwin's theory 12
- (b) What are the major four technological developments in India after its independence? 8

GROUP B

5. (a) Write three major sources of water pollution. 6
- (b) How can one minimize one of the three above? Explain in brief. 14
6. (a) Explain in brief the oxygen cycle. 10
- (b) What is Acid Rain? What are its Causes? 10
7. (a) Define sustainability. 8
- (b) How can one protect ozone layer? 12
8. (a) Name four non-metallic materials. 4
- (b) Explain in brief the manufacturing process of sponge iron. 10
- (c) What was the slogan of Brundtland in "Our Common Future"? 6

GROUP C

9. Answer the following 2x10
- (a) What are the contributions of Liebig, Edison, Marcon and Bell?
- (b) State four causes of social tension.
- (c) Name the author of the book, "Planned Economy in India."
- (d) Write four sentences on "Bopal gas tragedy".
- (e) Expand EIA and MINAS.
- (f) Write four sentences on gobar gas plant.
- (g) Name four chemicals which can be derived from industrial wastes.

- (h) Name the dates and months when world celebrates forest day , water day , earth day and environment day.
- (i) What are CO₂, NO_x and SO_x?
- (j) name four major parameters to make an Indian city a Smart City.

SUMMER 2016
SOCIETY AND ENVIRONMENT
Group A

1. (a) Is sociology a science? Explain (5M)
 (b) What is meant by social process? Give some examples (5M)
 (c) Describe the main patterns of social change in Indian society. (5M)
 (d) Differentiate between communalism and regionalism (5M)
- Q. 2. (a) Explain the main causes of poverty in India (5M)
 (b) Differentiate between primary and secondary social groups. (5M)
 (c) Explain the concept of cultural lag with examples. (5M)
 (d) Explain the changes that have taken place in the institution of marriage. (5M)
- Q. 3. (a) Discuss the role of information technology on social relationship. (5M)
 (b) What is role of appropriate technology in meeting the requirements of poor nation's development needs? (5M)
 (c) Discuss the inter-relation of technology growth with socio-economic growth. (5M)
 (d) What do you mean by eco-friendly technology? (5M)
- Q. 4. (a) Discuss the social and ethical responsibilities of an engineer. (5M)
 (b) What is role of NITI Ayog in planning and development? (5M)
 (c) What are the social parameters of development? (5M)
 (d) Do you think that greenhouse gases are causing global warming? Explain. (5M)

Group B

- Q. 5. (a) What is an ecological pyramid? What are different types of ecological pyramid? (5M)
 (b) How one terms 'community' as a social ecosystem? (5M)
 (c) What is biomagnification? Explain in detail. (5M)
 (d) What are the differences between BOD and COD methods? (5M)
- Q. 6. (a) Discuss the role of Central Pollution Control Board (CPCB) in maintaining air quality standards. (5M)
 (b) What is thermal Pollution? What are its adverse effects? (5M)
 (c) What do you mean by a waste water treatment plant? Describe with help of a neat diagram. (5M)
 (d) What is the EL NINO and LA NINA Effect? (5M)
- Q.7. (a) What are the major sources of air-pollution? How are they classified based on the source? (5M)
 (b) How is energy derived from the municipal solid waste? (5M)
 (c) What is hazardous Management? (5M)
 (d) What do you mean by Life Cycle assessment of product? (5M)
- Q. 8. (a) What do you mean by sustainable energy? (5M)
 (b) Discuss the role of engineers in sustainable development. (5M)
 (c) What are the major sectors responsible for polluting Carbon dioxide emissions? (5M)
 (d) In what way companies can help to contribute to reduce emissions to solve problems of climate change? (5M)

Group C

Q. 9. (A) Match the Author and Book

(5M)

- | | |
|------------------------|-----------------------|
| (a) War and Peace | (i) Winston Churchill |
| (b) Gathering storm | (ii) Ernest Hemingway |
| (c) We Indians | (iii) Leo Tolstoy |
| (d) A Farewell to Arms | (iv) Khuswant Singh |
| (e) Vama | (v) Mahadevi Verma |

(B) Match the following

(5M)

- | | |
|---|---------------------|
| (a) Lead character in Bandit Queen | (i) Euclid |
| (b) Father of geometry | (ii) Agriculture |
| (c) M.S. Swaminathan | (iii) Architecture |
| (d) Charles Correa | (iv) Swami Agnivesh |
| (e) Social activist against child labor | (v) Soma Biswas |

(C) Give the full form of the following;

(5M)

- | | |
|----------|----------|
| (a) URL | (b) NSDC |
| (c) UNEP | (d) WIPO |
| (e) ICBM | |

(D) Why are the following personalities famous?

(5M)

- | |
|------------------------|
| (a) Shanti S Bhatnagar |
| (b) Narain Karthikeyan |
| (c) Mira Nair |
| (d) Vinod Khosla |
| (e) Bhim Sen Joshi |

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Email jyothisacademy@gmail.comwww.amieindia.in**Contact us for****Section A & B Regular / Partime Coaching****Study materials,****SOLVED Question bank etc****WINTER 2015****SOCIETY AND ENVIRONMENT****Group A**

Q. 1. (a) What do you mean by sociology?

(5M)

(b) Why social values occupy important position in our life? Discuss briefly?

(5M)

(c) Differentiate between class and caste

(5M)

(d) State the advantages of joint family

(5M)

- Q. 2. (a) What is social stratification? (5M)
 (b) Discuss briefly the causes of social tension (5M)
 (c) What needs to be done to manage conflict in society? (5M)
 (d) How income plays a role in deciding the class? (5M)
- Q. 3. (a) State the parameters of economic development. (5M)
 (b) What is the role of newly formed NITI AYOOG in planning & development? (5M)
 (c) What is economic growth? (5M)
 (d) State briefly the objectives of planning (5M)
- Q. 4. (a) Discuss the role of science and technology in the development of a country. (5M)
 (b) What is the appropriate technology syndrome? (5M)
 (c) Differentiate between “indigenous technology” and appropriate technology (5M)
 (d) What is technology adoption? (5M)

Group B

- Q. 5. (a) What do you mean by “ecology”? State its main objectives. (5M)
 (b) What factors cause eco-imbalance? (5M)
 (c) What is biosphere cycle? State its main characteristics? (5M)
 (d) What is food chain? What are its main characteristics? (5M)
- Q. 6. (a) Explain the causes of soil pollution (5M)
 (b) State the factors responsible for depletion of ozone layer (5M)
 (c) What is sulphurous smog? (5M)
 (d) How can air pollution be controlled (5M)
- Q. 7. (a) What is solid waste? Mention various types of solid waste. (5M)
 (b) State the bad effects of incineration. (5M)
 (c) Explain biomedical waste. (5M)
 (d) Explain various methods of urban waste disposal. (5M)
- Q. 8. (a) State the principles of sustainable development. (5M)
 (b) Write a brief note on solar energy (5M)
 (c) What do you mean by water quality parameter? (5M)
 (d) Explain briefly the role of engineers in sustainable development. (5M)

Group C

- Q. 9. (A) Give the full form of the following abbreviations (5M)
 (i) KYC (ii) SEZ
 (iii) MOU (iv) NEEERI
 (v) OPEC
- (B) Why are the following personalities known for; (5M)
 (i) Sania Mirza (ii) Rattan Tata
 (iii) Uma Bharati (iv) Kailash Satyarthi
 (v) Smriti Irani
- (C) Match the authors and books; (5M)
 (a) Area of Darkness (i) Amrita Pritam
 (b) Coolie (ii) Sarojini Naidu

- | | |
|--------------------|---------------------|
| (c) Pinjar | (iii) Vikram Seth |
| (d) Broken Wings | (iv) Mulk Raj Anand |
| (e) A Suitable Boy | (v) V.S. Naipaul |

(D) Match the books given in Columns A with the authors given in Column B; (5M)

- | Column A | Column B |
|--|-----------------------|
| (a) Between the Lines | (i) Charles Dickens |
| (b) Das Capital | (ii) Nirad Chaudhary |
| (c) An Idealist view of Life | (iii) Karl Marx |
| (d) Autobiography of an Unknown Indian | (iv) S. Radhakrishnan |
| (e) A Tale of two cities | (v) Kuldip Nayyar |

Summer 2015
SOCIETY AND ENVIRONMENT

Group A

- | | |
|---|---|
| 1 (a) Is sociology a science or an art? Elaborate. | 5 |
| (b) What are different types of class that exist in our society? Discuss. | 5 |
| (c) What do you mean by cultural heritage? | 5 |
| (d) Differentiate between community and society. | 5 |
| 2. (a) Discuss the factors responsible for social mobility. | 5 |
| (b) Discuss the role religions in creating social mobility | 5 |
| (c) What are the social responsibilities of engineers? | 5 |
| (d) What are the factors responsible for disintegration of family system in India? | 5 |
| 3 (a) Discuss the parameters of social development | 5 |
| (b) Should planning commission be replaced with a new institution? Has it lost its relevance? | 5 |
| (c) Discuss the role of information technology (IT) in social integration. | 5 |
| (d) How can social media be used to create awareness about the social evils? | 5 |
| 4. (a) What is the role of engineers in economic development? | 5 |
| (b) What do you mean by corporate social responsibility? | 5 |
| (c) What do you mean by technology adoption and technological up gradation? | 5 |
| (d) What is the criterion for assessment of appropriate technology? | 5 |

GROUP B

- | | |
|--|---|
| 5 (a) What do you mean by climate change? What measures can be adopted to reduce the adverse impact of climate change? | 5 |
| (b) Differentiate between deforestation and afforestation. | 5 |
| (c) What are the causes of soil pollution? How can it be prevented? | 5 |
| (d) What do you mean by biosphere cycle? | 5 |
| 6 (a) How seasons change? | |
| (b) What do you mean by atmosphere ? Discuss the atmosphere of earth . | 5 |
| (c) What is the measures request for the protection of ozone layer? | 5 |
| (d) What are the consequences of environmental degradation? | 5 |
| 7 (a) Discuss the source of renewable energy? | 5 |
| (b) Discuss various type of agriculture waste. How can it be used for generating energy? | 5 |
| (c) What are the different types of industrial waste? | 5 |
| (d) What are the different types of urban waste disposal system? | |

- 8 (a) What is green growth in the context of India's forest policy? 5
 (b) What is the objective celebrating World Environment Day on June 5 every year? 5
 (c) What is carbon credit and carbon footprint? 5
 (d) What do you mean by clean technology? 5

Group C

- 9 (A) Give the full form of the following abbreviation: 5x1
 I. SAARC
 II. ESCAP
 III. NEPA
 IV. NCEPC
 V. UNCTAD
- (B) Write the name of the author of the following books : 5x1
 I. The Gardener
 II. India Divided
 III. Mother India
 IV. Pin jar
 V. Satyarthha Prakash
- (C) Why are the following personalities known? 5x1
 I. Abdul Gaffar khan
 II. W C Bannerjee
 III. James Watt
 IV. V V Giri
 V. Watt Disney
- (D) Name the inventers of the following? 5x1
 I. X-ray
 II. Small pox Vaccine
 III. Microscope
 IV. Electric iron
 V. Microphone

WINTER 2014 SOCIETY AND ENVIRONMENT

Time : Three hours

Maximum Marks : 100

Group A

- 1 (a) Explain the characteristics of social stratification. (5)
 (b) What is the relationship between society and culture. (5)
 (c) What is social developed. (5)
 (d) What are the attributes of caste system? (5)
2. (a) Discuss the factors which affect social change. Discuss some major social changes in our society. (10)
 (b) What are the main objectives of economic planning? (5)
 (c) What are the obstacles in the path of development for the under developed countries? (5)
3. (a) Describe the role of social reformers in managing social conflicts (5)
 (b) What are the five stages of economic growth? (5)

- (c) What are the factors to be considered before introducing a new technology? (5)
 (d) What is occupation? Classify various types of occupation. (5)

- 4 (a) 'Science and technology help to raise the standard of living of the general mass'. Comment. (5)
 (b) How can industry institute interaction facilitate the transfer of technology from lab to the world? (10)
 (c) What is the criteria for the assessment of appropriate technology? (5)

GROUP B

5. (a) What are the objectives of ecology? (5)
 (b) Differentiate between terrestrial ecosystem and aquatic ecosystem? (5)
 (c) State the effects of soil pollutions (5)
 (d) What is sulphurous smog? What are the components of sulphurous smog? (5)
6. (a) What are the major characteristics of food chain? (5)
 (b) How can Global warming be controlled? (5)
 (c) Describe the important causes for environmental pollution? (5)
 (d) Explain the EL Nino and LA Nino effects on the environment. (5)
7. (a) What do you mean by ecological pyramid? Explain different types of ecological pyramid. (5)
 (b) What are the bad effects of incineration? (5)
 © State the sources of solid wastes. (5)
 (d) Explain biomedical waste (5)
8. (a) Describe the stages of life cycle assessment of a product (5)
 (b) What are the components of sustainable development? (5)
 © Explain the role of engineers in sustainable development (5)
 (d) Discuss different sources of renewable energy. (5)

Group C

9. (A) Give the full form of the following (5x1)
 (i) BARC (ii) IBRD
 (iii) MGNREGA (iv) DRDO
 (v) ASI
- (B) What do you know about the following (5*1)
 (i) Mahesh Bhupati
 (ii) K. Radhakrishnan
 (iii) S.N. Subba Rao
 (iv) Arundhati Roy
 (v) Muhammad Yunus
- (C) Write names of the authors of the following books: (5*1)
 (i) Half Girl Fried
 (ii) One Life is not enough
 (iii) Romeo and Juliet
 (iv) An American Dilemma
 (v) David Copperfield
- (D) Match THE following in column A with column B; (5*1)
 (i) Link (a) Billiard
 (ii) Lob (b) Boxing
 (iii) Hook (c) Tennis
 (iv) Cannons (d) Cricket
 (v) Gully (e) Golf

Summer 2014
SOCIETY AND ENVIRONMENT

Time : Three hours

Maximum Marks : 100

*Answer FIVE questions, taking ANY TWO from GROUP A,
ANY TWO from GROUP B and ALL from GROUP C.*

Figures on the right hand side margin indicate full marks.

Group A

1. a) Discuss why the study of sociology is important in the contemporary society? (5)
b) What type of stratification exist in Indian society? (5)
c) What factors contribute to inequality in income distribution? (5)
d) Discuss the role of family and school in the socialization. (5)
2. a) Discuss the role of religious institutions in conflict management. (5)
b) How proper government help eliminate corruption in the society? (5)
c) Discuss the role of social media in creating a classless society. (5)
d) How are social strata and economic classes related? (5)
3. a) What is the role of government in economic development? (5)
b) What is India's policy on sustainable development? (5)
c) What are the major obstacles in the path of national development in India? (5)
d) "Population growth nullifies the fruits of development" Elaborate the statement in details. (5)
4. a) What was the major focus of 11th Five-year Plan(2007-2012)? (5)
b) What are some of the major indicators to assess the achievement of planning in India? (5)
c) What is the major objective of Human development? How is it measured? (5)
d) What are the major criteria for assessment of appropriate technology? (5)

Group-B

5. a) Discuss the causes of depletion of ozone layer. What is ozone hole? (5)
b) What is the role of Green-house gases in global warming? (5)
c) Difference between fog, smog and mist. (5)
d) What is biological magnification? (5)
6. a) What are the different types of biogeochemical cycles? Discuss about the carbon cycle. (5)
b) What factors contribute to ecological imbalance? (5)
c) What are biotic components of forest ecosystem? (5)
d) What are the different zones of marine ecosystem? (5)
7. a) What are the main consequences of water and air pollution on health and productivity? (5)
b) How are pollutants distributed from its source into environment segments? What is pollution standard index? (5)
c) What is the suspended particulate matter (SPM)? What are the various devices that can be used to control air pollutions? (4 + 6)
8. a) What do you mean by pathogens? What are the different types of pathogenes present in the water? (5)
b) What is noise? Discuss the major characteristics of noise. How is it measured? (5)
c) Discuss the reuse-recycle-recovery (3R) principle of waste management. (5)
d) How can energy be produced from biodegradable solid waste? (5)

GROUP-C

9. a) Give the full forms of the following abbreviations: (5 x 1)
- i) IAEA
 - ii) CTBT
 - iii) TRAI
 - iv) FERA
 - v) GSLV
- b) Write the name of the author for the following books: (5 x 1)
- i) A Passage to India
 - ii) India Wins Freedom
 - iii) Life Divine
 - iv) The Social Control
 - v) Wake-up India
- c) Name the inventor of the following: (5 x 1)
- i) Sea route to India
 - ii) Dynamo
 - iii) Photography(on paper)
 - iv) Stethoscope
 - v) Penicillin
- d) Why are following personalities known: (5 x 1)
- i) Copernicus Nicolas
 - ii) Satish Dhawan
 - iii) Venkartaman Ramkrishna
 - iv) Meghnad Saha
 - v) Marconi Gugilerine

WINTER-2013**SOCIETY AND ENVIRONMENT (AN 204/AD304)****Group A**

1. (a)What is sociology? (5)
- (b)Describe the factors which affect social mobility. (5)
- (c)Explain the main characteristics of caste system (5)
- (d)Why social values occupy important place in our life? (5)
2. (a)What do you mean by social tension?What are the main causes of social tension? (10)
- (b)What is social stratification? (5)
- (c)What is cultural heritage? (5)
3. (a) State the important parameters of economic development. (10)
- (b)Discuss briefly the role of planning in social development (5)
- (c)How income distribution affects the social structure of the society? (5)
4. (a)Differentiate between indigenous technology and appropriate technology? (5)
- (b)What is technology transfer? (5)
- ©Describe briefly the role of science and technology in the rural development. (5)
- (d)Explain technology adaptation and its benefits. (5)

Group B

5. (a)What do you mean by climate change? (5)
- (b)Differentiate between carbon cycle and nitrogen cycle. (5)
- ©State the main causes of eco-imbalance. (5)
- (d)What do you mean by ozone protection? (5)

6. (a) What is environmental degradation? How can it be checked? (5)
 (b) What is air pollution? State the measures to control air pollution. (5)
 (c) What do you mean by earth day and earth hour? (5)
 (d) Describe briefly the concept of carbon footprint and carbon credit. (5)
7. (a) What is industrial waste? How can industrial waste be minimized and managed? (5)
 (b) Explain hazardous waste? (5)
 (c) How will you measure the water quality? (5)
 (d) State the uses of agriculture waste. (5)
8. (a) Discuss the concept of biodiversity? (5)
 (b) What is solar energy? (5)
 (c) What is sustainable energy? What are the sources of sustainable energy and explain them in detail. (5)

Group C

9. (A) Give the full form of the following: (5x1)
 (i) GPS (ii) IREDA (iii) ICSSR (iv) OECD (v) UNED
- (B) Write the names of the authors of following books; (5x1)
 (i) My Experiment with Truth (ii) Discovery of India
 (iii) The wealth of nations (iv) Das capital
 (v) Asia Drama
- (C) What do you know about the following (5x1)
 (i) Mira Nair (ii) Sam Pitroda
 (iii) Amratya Sen (iv) Vishwanath Anand
 (v) Rakesh Sharma
- (D) Match the following in column A with column B; (5x1)

Column A	Column D
(i) Acoustics	(a) Study of cells
(ii) Cytology	(b) Study of figures
(iii) Statistics	(c) Study of metals
(iv) Ergonomics	(d) Science of work
(v) Metallurgy	(e) Study of sound

SUMMER 2013 SOCIETY AND ENVIRONMENT

Time: Three hours

Maximum Marks: 100

Group A

1. (a) Explain various types of social stratifications. 5
 (b) 'Social values occupy important position in social change' – discuss the statement in Detail. 5
 (c) Define occupation. Classify the occupation. 5
 (d) Describe the demographic factors which cause the social mobility. 5
2. (a) What are the main functions of sociology? 5
 (b) Explain the main characteristics of caste system. 5
 (c) What is joint family system? Discuss the merits and demerits of this system. 10
3. (a) What are the major objectives of economic planning in India? 5
 (b) What is the role of science and technology in the development process of a country? 5
 (c) What are the five stages of economic growth? 5

- (d) What are the measure recommended for human resource development? 5
4. (a) What are the factors to be considered before introducing a new technology? 5
 (b) Differentiate between technology transfer and technology development 5
 (c) What is appropriate technology syndrome? 5
 (d) What are the societal responsibilities in conflict management? 5

Group B

5. (a) What do you mean by ecology? Discuss its objectives. 5
 (b) What factors cause eco-imbalance? 5
 (c) Explain different types of ecological pyramid? 5
 (d) What is the importance of sedimentary cycles in the biosphere? 5
6. (a) What is environmental degradation? How can environmental degradation be Controlled? 5
 (b) What is 'global warming'? Discuss the impact of global warming on climate and Agriculture. 5
 (c) Explain the causes of soil pollution. 5
 (d) What are the different types of air pollution? 5
7. (a) What is solid waste? Mention various types of solid waste. 5
 (b) Discuss various methods of urban waste disposal. 10
 (c) What are the various sources of water pollution? 5
8. (a) What are the principles of sustainable development? 5
 (b) Write a brief note on 'Solar Energy'. 5
 (c) Differentiate between natural and artificial ecosystem. 5
 (d) What is Food Web? Explain with the help of an example. 5

Group C

9. (a) Give the full form of the following abbreviations: 5 x 1
 (i) NABARD
 (ii) SAIL
 (iii) MSME
 (iv) UNESCO
 (v) IAEA
- (b) Why are the following personalities known for? 5 x 1
 (i) Ban ki-moon
 (ii) Ms Park Geun-hye
 (iii) Cyrus P. Mistry
 (iv) E Sridharan
 (v) Ms Pratibha Roy
- (c) Match the books given in column A with the authors given in column B: 5 x 1
- | Column A | Column B |
|-----------------------|---------------------|
| (i) Between the Lines | (a) Charles Dickens |
| (ii) Das capital | (b) Nirad Chaudhary |

- (iii) An idealist View of life (c) Karl marx
 (iv) Autobiography of an Unknown Indian (d) S. Radhakrishnan
 (v) A Tale of Two Cities (e) Kuldip Nayar

(d) Match the trophies given in column A with the sports given in column B: 5 x 1

Column A	Column B
(i) Aga Khan Cup	(i) Golf
(ii) Davis Cup	(ii) Hockey
(iii) Ranji Trophy	(iii) Football
(iv) Rovers Cup	(iv) Lawn Tennis
(v) Walker Cup	(v) Cricket

Winter 2012

SOCIETY AND ENVIRONMENT

Group A

1. (a) What is the basis of defining sociology as a science? 5
- (b) Why one should study sociology? 5
- (c) What do you mean by nuclear family? What are the advantages and disadvantages of a nuclear family? 5
- (d) How globalization has helped the transformation of societal norms and values? 5

2. (a) How is social stratification relevant in today's world? 5
- (b) 'Economic Class' has emerged as a strong indicator of social status today. Discuss. 5
- (c) What do you mean by 'social' class'? What are its main features? 5
- (d) What do you mean by 'welfare state'? What is the role played by income distribution in a welfare state? 5

3. (a) What is conflict? Is it always destructive? Can we have constructive conflict? How can conflict be managed in a society? 10
- (b) What are the causes of social tension? 5
- (c) What do you understand by the social responsibility of a person in a civil society? 5

4. (a) What are the major obstacles for the developing countries in the path of national development? 5
- (b) Discuss the main parameters of development. 5
- (c) Differentiate between 'indigenous technology' and 'appropriate technology'. 5
- (d) What do you understand by the term 'technology transfer'? What are the steps required to transfer technology from the laboratory to field? 5

Group B

5. (a) What is food chain? Discuss its major characteristics? 5
- (b) What are the factors responsible for depletion of ozone layer? 5

- (c) What do you mean by 'clean technology'? 5
- (d) What is climate change? What efforts have been made to stabilize climate change for a sustainable energy future? 5
- 6 (a) What is e-waste? How can we reduce and manage e-waste 5
- (b) What do you mean by 'earth hour' and 'earth day'? 5
- (c) What are the efforts needed to maintain biodiversity? 5
- (d) Discuss about the nitrogen cycle. 5
- 7 (a) What are the major air pollutants? Discuss their diverse impact our life. 5
- (b) Discuss the impact of global warming on ecological system. 5
- (c) How is nitrogenous or photochemical smog formed? 5
- (d) How do we measure the water quality? 5
- 8 (a) What do you mean by solid waste management? 5
- (b) What do you understand by hazardous waste? How is it managed? 5
- (c) What is sustainable energy? What are the sources of sustainable energy? 5
- (d) What is environmental social responsibility? 5

Group C

- 9 (A) Discuss About the following personalities : 4x1
- (i) Kalpana Chawla
- (ii) Baba Amte
- (iii) Bhupen Hazarika
- (iv) Indra Nooyi
- (B) Give full form of the follow 4x1
- (i) ESCAP
- (ii) CBDT
- (iii) MICR
- (iv) NAFED
- (C) Answer the following: 4x2
- (i) Who coined the slogan 'Jain Jawan Jai Kisan'?
- (ii) What is considered as the nobel prize for conservation ?
- (iii) Who founded as the Indian Statistical Institute ?
- (iv) Who gave the symbol for rupee ?
- (D) Explain the following concepts: 2x2
- (i) Brain drain
- (ii) Black money

WINTER 2011
SOCIETY AND ENVIRONMENT
Group A

- | | |
|--|-----|
| 1. (a) Why should the engineers study and know the 'society'? | 12. |
| (b) What is meant by social stratification? What are its salient features? | 8 |
| 2. Write in detail the evolution of 'occupation'. | 20 |
| 3. (a) List major reasons behind international crimes. | 10 |
| (b) Suggest steps to minimize the international crimes | 10 |
| 4. (a) What are the present methods to control population in India ? | 10 |
| (b) How far have we achieved? | 5. |
| (c) How far have we failed? | 5. |

Group B

- | | |
|--|-----|
| 5. (a) Explain the major outcomes of European and French industrial revolutions. | 15. |
| (b) How have the liberalization, privatization and globalization helped India? | 5 |
| 6. Write a critical essay on ecosystem. | 20 |
| 7 (a) What is ozone ? | 5. |
| (b) Mention the factors responsible to destroy the ozone layer. | 15 |
| 8. (a) Define sustainable development | 5 |
| (b) Write briefly on the technology of sustainable energy | 15. |

Group C

- | | |
|---|------------------------------------|
| 9. Answer the following in brief | 10 × 2 |
| (i) Define anthropology. | |
| (ii) What is black magic? | |
| (iii) Match the following : | |
| (A) Tertiary sector | (a) Communist manifesto |
| (B) Karl Marx | (b) Dr. B.R. Ambedkar |
| (C) Untouchability | (c) Mahatma Gandhi |
| (D) Pandit Nehru | (d) Socialistic pattern of society |
| (iv) Define vertical social mobility | |
| (v) What is an agrarian society | |
| (vi) Name the odd ones | |
| (a) Poverty | |
| (b) Population | |
| (c) Economic growth | |
| (d) Pollution | |
| (vii) List three major life supporting elements | |
| (viii) What is the reason behind hearing loss ? | |
| (ix) Define acid rain and e-wastes. | |
| (x) Fill in the blanks. | |

We have inherited the world from our forefathers but have borrowed it for our

.....

SUMMER 2011
SOCIETY AND ENVIRONMENT
Group A

1. (a) Justify the statement that sociology studies social process. 10
(b) Define and explain in brief the medical sociology. 5
(c) Who formulated the Humanities and social Science (HSS) curriculum for IIT Kanpur in 1962 5
2. (a) Explain in detail the social stratification. 10
(b) What are the major factor elimination slowly the caste system in India 10
- 3 (a) Where in brief the consequences of mobility. 10
(b) Give main reasons behind crime in India. 5
(c) Suggest concrete steps to control crime. 5
4. (a) What are the characteristics of under-development. 10
(b) India is a developed nation among under –developed nation among developed nations, Analyse, assess and comment on this statement 10

Group B

5. (a) What are the main causes of whater pollution in India 10
(b) Write a short note on ‘Sustainable Development’ 10
6. (a) What are the objective of ecology 10
(b) Explain the N₂ cycle. 10
7. (a) Explain clearly the adverse effect of oxides of sulphur. 7
(b) Write chemical equations for (a), where applicable. 3
(c) Write in brief at least there simple techniques to control pollution due to solid wastes. 10
8. (a) Write ten types of agricultural waste in India . 10
(b) Write five sours to obtain energy from the ocean. 10

Group C

9. (A) Match the following: 4×1

(a) DrM. Visvesvaraya	(i) Politics
(b) Shakespeare	(ii) Engineer
(c) Kautilya	(iii) Public Servant
(d) Pt. Jawaharlal Nehru	(iv) Literature
- (B) Explain following general terms used in India: 4×1
 - (a) MHRD
 - (b) NAAC
 - (c) NBA(QA)
 - (d) DOE
- (C) Define ‘Plan Holiday’ and ‘Rolling Plan’ 2+2
- (D) Define the following in 2-3 sentences 4×2
 - (a) Photosynthesis
 - (b) Greenhouse effect
 - (c) Fungi
 - (d) CFCs

WINTER 2010
SOCIETY AND ENVIRONMENT

Group A

1. (a) Differentiate between sociology and anthropology. (5)
 (b) "Sociology is the science of society". Justify this statement. (5)
 (c) How is social system and social institution different from each other? (5)
 (d) How stratification takes place in Indian society? (5)
2. (a) What do you mean by social conflict? How can it be removed? (5)
 (b) What are the hurdles of the development process? (5)
 (c) How do you like to assess the planning for social development? (5)
 (d) Discuss the relationship of population growth and social development (5)
3. (a) What are the criteria of indigenous technology and foreign technology assessments? (5)
 (b) What do you mean by appropriate technology? What are the pitfalls of technology transfer? (10)
 (c) Different between technology transfer and technology development. (5)
4. (a) Discuss the role of women in social development. How can women empowerment help in the process of social development? (10)
 (b) What are different stages of economic growth of a society? What measures can be recommended to achieve the targets of economic growth? (10)

Group B

5. (a) Describe the sulphur cycle? (5)
 (b) Can we call community as social ecosystem? Justify your answer. (5)
 (b) How ecological factors affect the environment? (5)
 (c) What are different types of ecological pyramid? (5)
6. (a) What are major from of environmental degradation and consequences? (5)
 (b) Define the following concept (i) pollution (ii) contaminants (iii) speculation (iv) threshold unit value, and (v) pollution standard index. (10)
 (c) What are pesticides? How are pesticides spread in the environment? (5)
7. (a) How are public health and the solid waste related? (5)
 (b) How is energy derived from the municipal solid waste? (5)
 (c) What do you mean by hazardous waste? What are the characteristic features of hazardous waste? (5)
 (d) What do you mean by the 'life cycle assessment' of a product? (5)
8. (a) What are the rules of sustainable development ? (5)
 (b) What do you mean by sustainable energy? (5)
 (c) What is geothermal energy? Where are these located? (5)
 (d) What do you mean by solar distillation and solar pond? (5)

Group C

- 9..(A) Answer the following in brief: (5 × 1)
- (i) What is tropical winds?
 - (ii) What is mesosphere?
 - (iii) What is Bhaskara II ?
 - (iv) What is RAM?
 - (v) What is the effect of deficit financing on economy?
- (B) Give full from of the following abbreviations? (5 × 1)
- (i) NEERI (ii) ASSOCHAM (iii) BIFR (iv) FEMA (v) GATS
- (C) What for these personalities famous for? (5 × 1)
- (i) Madhavacharya (ii) Stephen Hawking
 - (II) Lee Lacocca (iv) Medha Patekar
 - (v) Vikram Sarabhai

- (D) Answer the following in one word: (5 × 1)
- (i) The words 'Satya Meva Jayate' are taken from.....
 - (ii) The Indian Military Academy is located at.....
 - (ii) The national calendar of India is based on.....
 - (iv) Who certifies a site on the Internet as a secure site?.....
 - (v) Blood circulation in human body was discovered by

SUMMER 2010
SOCIETY AND ENVIRONMENT
Group A

1. (a) What is the importance of sociology in modern times ? 5
(b) Give major characteristics of community.
(c) Define cultural heritage.
(d) What is the difference between caste and class?
2. (a) What are the main social responsibilities of an individual? 5
(b) 'Social tension has increased with the advancement of science and technology.'
Do you agree? Give reasons.
(c) What are the advantages of joint family system?
(d) What is manpower planning?
3. (a) What are the parameters for social development? 5
(b) Discuss the role of science and technology in social development.
(c) Do you favour women's empowerment ? If yes, give reasons.
(d) 'The use of computer has revolutionized our social structure.' Comment on this Statement with examples.
4. (a) What do you understand by indigenous technology? 5
(b) What is biotechnology ? What are its fields of application?
(c) Explain the concept of appropriate technology. How is it assessed?
(d) What changes would you recommend in our science / technology policy in the light of recent development in the field of nuclear power?

Group B

5. (a) What are the main components of ecosystem? Describe in brief. 5
(b) Explain the carbon-dioxide cycle. 5

(c) What are the adverse effects of eco-imbalance? 5
(d) Write briefly the effects of environmental degradation on climate. 5
6. (a) Explain briefly the mechanism for depletion of ozone layer. 5
(b) Suggest few steps for wildlife preservation. 5
(c) What is food-chain ? 5
(d) What is CNG and what are its main uses? 5
7. (a) Define industrial wastes. 5
(b) State the effects of deforestation. 5
(c) Sustainable economic development could go only with a stable political system and strong political will. Examine this statement. 5
(d) What is acid rain? Discuss its causes. 5
8. (a) What is ecology? State its significance. 5
(b) Discuss the ill-effects of environmental pollution. 5
(c) State the different sources of renewable energy. 5
(d) Discuss how energy is derived from municipal solid waste? 5

Group C

9. (A) Why the following personalities known for ? 5×1
 (1) M.F. Hussain
 (2) Ratan Tata
 (3) Sunder Lal Bahuguna
 (4) Amartya Sen
 (5) B.Subbarao
- (B) Give full forms of the following: 5×1
 (1) NEERI
 (2) DST
 (3) NCHER
 (4) UNCTAD
 (5) AICTE
- (C) Name the authers of the following books : 5×1
 (1) Gitanjali
 (2) My Experiment with Truth
 (3) Kamayani
 (4) Wealth of Nations
 (5) Discovery of India
- (D) Define the following terms: 5×1
 (1) Psychology
 (2) Anthropology
 (3) Statistics
 (4) Geology
 (5) Philology

WINTER 2009**SOCIETY AND ENVIRONMENT****Group A**

1. Differentiate between the following: (4× 5)
 (a) Sociology and Psychology.
 (b) Class and caste
 (c) Association and institution.
 (d) Society and Community
2. (a) What do you by social tension ? What are the main causes of social tension? (10)
 (b) What is social stratification? Name different types of social stratification. (10)
3. (a) Discuss the role of science and technology in the rural development. (10)
 (b) What are the parameters of the development of a country? (5)
 (c) Discuss briefly the role of planning . (5)
4. (a) What do you mean by technology transfer? (10)
 (b) How do you like to transfer the technology from laboratory to field? (10)

Group B

5. (a) What is biosphere cycle? (5)
 (b) Different between carbon cycle and nitrogen (5)
 (c) State different types of ecosystem. (5)
 (d) Explain the meaning of ecological imbalance (5)
6. (a) What is meant by 'environmental degradation'? Suggest measures to control environmental degradation? (10)
 (b) What is global warning? Suggest measures to control global warming. (10)

7. (a) What is solid waste ? Name the chief sources of solid waste . (10)
 (b) Explain hazardous waste? (5)
 (c) Write a note on 'life cycle assessment' of a product. (5)
8. (a) What is solar energy/ Discuss different application of solar energy? (10)
 (b) Define sustainable development. What are the measures for planning sustainable development? (10)

Group C

9. Answer the following in brief : (10 × 2)
- Importance of sociology
 - Define culture.
 - What is social mobility?
 - Advantages of joint family.
 - Role of women in society.
 - What is SMOG?
 - What is recycling of plastic?
 - Chipko movement achievements.
 - Causes of soil pollution.
 - Justice and equity in society. Comment of this statement.

SUMMER 2009

SOCIETY AND ENVIRONMENT

Group A

- (a) What do you understand by social system and social institution? (5)
 (b) 'Sociology is a science of society'. Comment on this statement. (5)
 (c) What do you mean by social stratification? What are its salient characteristics? (5)
 (d) What is social class? How is it different from economic class? (5)
- (a) What is social tension? What are the different causes of social tension? (5)
 (b) Discuss the role of science and technology in the development process of society (5)
 (c) What are the objectives of planning? What needs to be done to plan objectives? (5)
 (d) What do you mean by human resource development? (5)
- (a) What are the criteria for assessment of appropriate technology? (5)
 (b) What do you mean by technology transfer? What are its pitfalls? (5)
 (c) What are the reasons for failure of technology transfer from laboratory to field ? (5)
 (d) Discuss the development of science and technology in India before independence. (5)
- (a) What are the different parameters of development? (5)
 (b) How does conflict arise in society? How can it be managed? (5)
 (c) How does population become responsible for the development of our country? What are the measures required to contain the growth rate of population? (5)
 (d) Difference between a developed, developing and undeveloped economy? (5)

Group B

- (a) Why is the study of ecology so important? (5)
 (b) What is ecosystem? What are the different types of ecosystem? (5)
 (c) What are the main characteristics of food chain? Classify different types of food chain. (5)
 (d) What do you understand by ecological pyramid? What are the different types of ecological pyramid? (5)

6. (a) What do you mean by bio magnification ? What are its different stages? (5)
 (b) Differentiate between phosphorus cycle and sulphur cycle. (5)
 (c) What is eco imbalance? How are people responsible for it? (5)
 (d) What are the biotic components of forest ecosystem? (5)
7. (a) Discuss the different components of marine ecosystem with example. (5)
 (b) What are the different sources of environmental pollution? (5)
 (c) What do you mean by the air pollution? How can it be controlled? (5)
 (d) What is global warming? Discuss its impact on climate, agriculture, and marine food. (5)
8. (a) What is smog? What are different types of smog? (5)
 (b) What is the biomedical waste? What are the methods of biomedical waste management? (5)
 (c) What are the different sources of renewable energy? (5)
 (d) What do you mean by sustainable development? What are the rules of sustainable development? (5)

Group C

9. (A) Define the following terms: (5×1)
 (i) Seismology (ii) Polygraph
 (iii) AIDS (iv) Firmwave
 (v) Genetics
- (B) What are the uses of these scientific instruments? (5×1)
 (i) Audiometer (ii) Fathometer
 (iii) Salinometer (iv) Theodolite
- (C) Choose the correct answer for the following: (5×1)
 (i) What organism kills and eat other organism?
 (a) predator (b) parasite
 (c) decomposer (d) producer
 (ii) Which one of the following is a greenhouse gas?
 (a) Nitrogen (b) Oxygen
 (c) Methane (d) Inert gas
 (iii) Acid rain is caused due to mixing of rain water with
 (a) SO₂ AND NO_x (b) CO₂
 (c) CO (d) O₂
 (iv) Biological Oxygen Demand (BOD) determines the health of
 (a) air (b) water
 (c) soil (d) solid waste
 (v) Which one of the following is the fossil fuel?
 (a) Gobar gas (b) Coal
 (c) Methane (d) Soil
- (D) Write the full form of the following:
 (i) SAARC (ii) FERA
 (iii) GATT (iv) NEERI

Winter 2008
SOCIETY AND ENVIRONMENT
GROUP A

1. (a) What is social stratification? Discuss the main characteristics of social stratification (5)
 (b) Discuss various factors which contribute to social mobility. (5)
 (c) Describe the essential elements of a community (5)
 (d) Distinguish between institution and association. (5)
2. (a) Discuss various parameters of social development which help in understanding the change in a developing society. (10)
 (b) Discuss the five stages of economic growth for a traditional society become an advanced society (5)
 (c) Explain the role of science and technology in the development process. (5)
3. (a) Discuss the main objectives of economic planning in India (5)
 (b) Explain the course which are responsible for the migration of large number of people from rural to urban areas (5)
 (c) What are factors responsible for social change in the society? (5)
 (d) Discuss the contribution made by public sector organization in India's economic development after independence (5)
4. (a) Discuss various non-conventional sources of energy. (10 M)
 (b) Explain various methods of technology transfer. (5M)
 (c) Explain the criteria to be considered while selecting industry for appropriate technology transfer (5M)

Group B

5. (a) How ecological factors affect the environment? (5M)
 (b) Discuss various types of biogeochemical cycle. (10 M)
 (c) What is a 'food web'? (5M)
6. (a) Discuss various causes of environmental pollution. (5M)
 (b) Explain the main sources of air pollution. (5M)
 (c) Discuss adverse effects of global warming on the environment? (5M)
 (d) What are the methods used for soil conservation? (5M)
7. (a) Discuss various types of solid wastes. (5M)
 (b) What are biomedical wastes? Discuss various methods of their disposal. (10M)
 (c) What are the tests carried out to determine the quality of water? (5M)
8. (a) Discuss the basic components of sustainable development? (5M)
 (b) Explain the role of engineers in sustainable development. (5M)
 (c) What is 'Pyramid of Biomass'? (5M)
 (d) Write a note on human resource development in India. (5M)

Group C

9. Answer the following in brief: (2 × 10)
 - (i) Differentiate between material culture and non material culture?
 - (ii) Why is family relationship breaking in Indian society?
 - (iii) Write the functions of Planning Commission?
 - (iv) What are the characteristics of modernization?
 - (v) Differentiate between abiotic and biotic factors?
 - (vi) What is greenhouse effect?
 - (vii) What is CO₂ cycle?
 - (viii) What are the effects of noise pollution?
 - (ix) Define incineration
 - (x) Differentiate between deforestation and reforestation.

Summer 2008
SOCIETY AND ENVIRONMENT
Group A

1. (a) Describe in brief the caste system in India and the main factors which gave made it now flexible (5)
- (b) Based on Max Weber's theory, outline the important factors responsible to identify the class system. (5)
- (c) Describe in brief the present class structure in India (5)
- (d) What are the main causes for income inequality and its consequences? (5)
2. (a) Explain the major impediments to development (10)
- (b) What are the possible measures to be taken in India to check brain drain? Explain (10)
3. (a) How can we apply technology for rural development in India ? Explain in detail. (10)
- (b) According to Pandit Nehru, ' Planning without action is futile and action without planning is futile' Justify this statement. (5)
- (c) Make a judicious assessment of India's tenth Five Year plan. (5)
4. (a) How are appropriate technology and technology adaptation defined and explained ? (10)
- (b) Outline some aspects of technology transfer? (10)

Group B

5. (a) What are the main components of ecosystem ? Describe in brief. (10)
- (b) Explain the carbon dioxide cycle. (5)
- (c) What are the adverse effects of eco-imbalance? (5)
6. (a) What is a food chain ? (5)
- (b) Write briefly the effects of environmental degradation climate. (10)
- © What are the e-wastes and how can we minimize these? (5)
7. (a) Define and explain industrial wastes (5)
- (b) Explain briefly the mechanism for depletion of ozone layer (5)
- © Write a short note on 'gobar gas' (5)
- (d) How can we derive wealth from fly ash? Write in brief. (5)
8. (a) Define and explain acid rain. (5)
- (b) Write a short note on 'afforestation'. (5)
- © Define and explain sustainable development. (5)
- (d) Write the chemical equation for conversion of coke/coal to methanol. (5)

Group C

9. Answer the following in brief: (2 × 10)
 - (i) Differentiate sociology from political science.
 - (ii) What is the main difference between a caste and a class?
 - (iii) Draw a empirical Lorenz curve for equal distribution of income.
 - (iv) What is rolling plan.
 - (v) What was the ultimate outcome of industrial revolution in Europe ?
 - (vi) List major four needs of mankind.
 - (vii) Define ecology.
 - (viii) What are SO_x and NO_x ?
 - (ix) Define biomethanisation
 - (x) What is CNG and what are its main uses?

WINTER 2007
SOCIETY AND ENVIRONMENT

Group A

1. (a) What do you understand by the term socialization? How is it different from 'Socialism'? (5)
 (b) Differentiate between 'culture' and 'tradition'? (5)
 (c) Is sociology a science? How is it different from psychology? (5)
 (d) What do you mean by cultural heritage? Explain. (5)
2. (a) What are the factors responsible for social change? (5)
 (b) Differentiate between 'social change' and social development. (5)
 (c) What are the parameters used to measure social development? (5)
 (d) What are the causes of social tension? (5)
3. (a) What are the objectives of planning? (5)
 (b) What do you mean by manpower planning? (5)
 (c) Discuss the role of science and technology in development. (5)
 (d) Do you think that five year plans have met their objectives? Briefly explain. (5)
4. (a) What are the criteria for assessment of imported technology? (5)
 (b) What do you mean by technology transfer? (5)
 (c) What is the appropriate technology syndrome? (5)
 (d) What can be done to facilitate the transfer of technology in rural sector? (5)

Group B

5. (a) What are the factors responsible for ecological imbalance? (5)
 (b) What are the causes of noise pollution? What can be done to prevent it? (5)
 (c) What do you mean by 'Biosphere Cycle'? (5)
 (d) What is global warming? What are its effects? (5)
6. (a) Differentiate between afforestation, deforestation and reforestation. (5)
 (b) What are the measures required to protect the ozone layer? (5)
 (c) What do you mean by industrial waste? (5)
 (d) Discuss the role of engineers in pollution control. (5)
7. (a) Discuss the technology policy of India. (5)
 (b) What can be done to prevent waste from agricultural products? (5)
 (c) How is soil polluted? What are the measures required to prevent soil pollution? Do you think that excessive use of pesticides / fertilizers be banned. (5)
 (d) 'Pesticides' are damaging and polluting the rivers and oceans. Discuss. (5)
8. (a) We need a strong 'political system' and 'political will' for sustainable development. Discuss. (5)
 (b) Discuss the alternative sources of energy. (5)
 © What is 'quality of life'? (5)
 (d) What is wild life preservation? How it helps in sustainable development? (5)

Group C

9. (A) Write the full form of the following words (1× 5)
 (i) NEERI (ii) WTO (iii) FICCI (iv) OPEC (v) ICAR
- (B) Write the authors of the following books (1× 5)
 (i) Affluent Society (ii) Area of Darkness
 (iii) The Gardener (iv) Macbeth (v) Odyssey
- (C) Write about the following personalities (1× 4)
 (i) Fa-hien (ii) Galileo (iii) Dhyani Chand (iv) Walt Disney
- (D) Match the following (1× 4)

- | | |
|-----------------|-------------|
| (i) Yeast | 1. Protozoa |
| (ii) Amoeba | 2. Algae |
| (iii) Chlorella | 3. Bacteria |
| (iv) Salmonella | 4. Fungi |

- (E) What do you know about the following terms: (1×2)
 (i) Dermatology (ii) Ornithology.

SUMMER 2007
SOCIETY AND ENVIRONMENT

Group A

1. (a) What do you understand by the term 'social stratification'? (M5)
 (b) What is society? Discuss its characteristics? (M5)
 (c) Define culture. What is cultural lag? (M5)
 (d) Trace the relationship between religion and culture? (M5)
2. (a) Sociology is a scientific study of society and human behaviour. Discuss. (M5)
 (b) What is social mobility? What factors are responsible for social mobility? (M5)
 (c) Is conflict the result of inequality in society? (M5)
 (d) Discuss the characteristics and effect of caste system. (M5)
3. Differentiate between the following:
 (a) Human society and Animal society. (M5)
 (b) Formal group and Informal group (M5)
 (c) Institution and Association. (M5)
 (d) Competition and Conflict. (M5)
4. (a) How has industrialization affected the joint family system? (M6)
 (b) What is appropriate technology? How will you select a technology for rural population? (M7)
 (c) Information technology has played a major role in social development. Discuss. (M7)

Group B

5. (a) What is planning? How an engineer can help in better planning of resources? (M5)
 (b) Discuss Human Relation Approach (M5)
 (c) What is ecosystem? How are human activities responsible for degradation of ecosystem? (M5)
 (d) Discuss oxygen cycle diagrammatically? (M5)
6. (a) What are natural resources? Explain? (M5)
 (b) How is population growth a cause for resources depletion? (M5)
 (c) Define reuse and recycling. What are the benefits of recycling? (M5)
 (d) What is e-Waste and biodegradable waste? (M5)
7. (a) What is greenhouse effect? Discuss its causes, consequences and control measures. (M5)
 (b) What, according to you as an engineer, is an ideal waste management system in urban as well as in rural areas? (M10)
 (c) What is sustainable development? What are the political challenges being faced by sustainable development? (M5)
8. (a) Describe pollution. Explain the causes and effects of air pollution. (M5)
 (b) Nature has its own way to keep balance in itself. Discuss. (M5)
 (c) How is public awareness an important factor in managing the environment? (M5)
 (d) Discuss technology adaptation in India in view of Indian environment? (M5)

Group C

9. Answer the following questions:
 (i) Write full form of the following (1×5M)
 (a) CPCB
 (b) UNICEF

- (c) UPSC
(d) EIA
(e) TERI
- (ii) Why are the following personalities known for? (1×5M)
(a) N.R. Narayan Murty
(b) R.S. Rathore
(c) Sunita Williams
(d) Bob Woolmer
(e) L.N. Mittal
- (iii) Name the authors of following books: (1×5M)
(a) Broken Wings
(b) India of My Dreams
(c) Adhe Adhure
(d) The old Man and The Sea
(e) The Power and The Glory
- (iv) What do you know about these terms: (1×5M)
(a) Sericulture
(b) Joule
(c) Land of rising sun
(d) Aryabhata
(e) 8th September

Winter 2006
SOCIETY AND ENVIRONMENT
GROUP A

1. (a) Do you agree with the statement that sociology is the study of social relationship? (M6)
(b) Discuss the social characteristics of primary and secondary groups with suitable examples. (M 8)
(c) Define the concept of social conformity, variation, and deviance. (M6)
2. (a) Explain the concept of social stratification. How it is related to mobility? (M5)
(b) Discuss the impact of social change (M5)
(c) Differentiate between Custom and Tradition. (M5)
(d) Discuss the relationship of sociology and psychology (M5)
3. (a) What do you mean by social conflict? (M5)
(b) Is social inequality is a result of class, caste and occupation? (M5)
(c) Do you agree that information technology has improved our effectiveness at workplace? (M5)
(d) Discuss the advantage of joint family system. Why it is disintegrating today? (M5)
4. (a) What are the major factors responsible for social development? How it has been influenced by economic environment? (M7)
(b) What is Planning? Do you think that five years plans have met their objectives (M7)
(c) What is appropriate technology? How can we identify appropriate technology for rural population? (M6)

Group B

5. (a) What is greenhouse effect? State its effects briefly. (M6)
(b) What is Bio-sphere cycle? (M6)
(c) What are the causes of ecological imbalance? How it can be prevented? (M8)

6. (a) What do you mean by environmental degradation? What are its causes? (M8)
 (b) How noise pollution effect our health? (M6)
 (c) What can be done to protect ozone layer? (M6)
7. (a) Differentiate between afforestation, deforestation and reforestation. (M5)
 (b) 'Use of plastic should be banned.' Do you agree with this statement. (M5)
 (c) Discuss the role of Pollution Control Board in protecting the environment (M5)
 (d) What can be done to stop the discharge of industrial waste into our rivers? (M5)
8. (a) What can be done to minimize the waste from agricultural products? (M5)
 (b) What are sources of alternate energy? (M5)
 (c) What do you understand by the term sustainable development? (M5)
 (d) What is the role of engineers in effective disposal of waste in urban areas? (M5)

Group C

9. (A) Write the full forms of the following: (M5)
 (a) SAARC
 (b) WAN
 (c) NDA
 (d) RITES
 (e) UPSC
- (B) Name the authors of the following books: (M5)
 (a) Origin of Species
 (b) A Passage to England
 (c) Wake up India
 (d) The wonder that was India
 (e) Mother
- (C) Why these personalities are famous for? (M5)
 (a) Aurobindo Ghosh
 (b) Rajendra Prasad
 (c) V.V. Giri
 (d) Zakir Hussain
 (e) Sarojini Naidu
- (D) Match the following Columns for diseases: (M5)
- | Column I | Column II |
|----------------|------------------|
| (a) Airborne | (1) Tetanus |
| (b) Waterborne | (2) Tuberculosis |
| (c) Contact | (3) Cholera |
| (d) Wound | (4) Syphilis |

SUMMER 2006
SOCIETY AND ENVIRONMENT.

Group A

- | | |
|---|----|
| 1. (a) Do you agree with the statement that man is a social animal? | 8 |
| (b) What is social mobility? | 6 |
| (c) Discuss the factors that bring social change. | 6 |
| 2. (a) Differentiate between the following: | 8 |
| (i) Association and Institution | |
| (ii) Mores and Folkways. | |
| (b) Discuss the major characteristics of caste system. | 6 |
| (c) What is Cultural Lag | 6 |
| 3. (a) What is manpower planning? | 10 |
| (b) Briefly describe technological development in India after independence. | 10 |
| 4. (a) Discuss the role of science and technology in social development. | 8 |
| (b) Discuss the technology policy of India. | 7 |
| (c) What is e-commerce? | 5 |

Group B

- | | |
|---|---|
| 5. (a) What are the causes of global warming? State its effects briefly. | 8 |
| (b) How is ozone layer being depleted? | 6 |
| (c) What is ecology? | 6 |
| 6. (a) What are the factors responsible for ecological imbalance? | 6 |
| (b) Name the different sources of air pollution | 6 |
| (c) Write a note on wildlife preservation. What measures would you suggest in this regard? | 8 |
| 7. (a) State the effects of deforestation. | 6 |
| (b) Do you like to ban Gutka-panmasala legally? How will you proceed? | 6 |
| (c) Use of plastic bags is causing incalculable loss to human being as well as animals. Comment and suggest methods to replace it. | 8 |
| 8. (a) Write a note on pollution problems from automobile exhausts. | 6 |
| (b) Is political stability necessary for sustainable economic development? Discuss it in the context of present political situation in India. | 8 |
| (c) What do you understand by industrial wastes? How can these be treated? | 6 |

Group C

- | | |
|---|-------------------|
| 9. (a) Why the following personalities are known for? | 1 × 5 |
| (i) Sunderlal Bahuguna | |
| (ii) Amartya Sen | |
| (iii) Bill Gates . | |
| (iv) Medha Patkar | |
| (v) Greg Chappell. | |
| (b) Write the author(s) of the following books: | 1x5 |
| (i) India Wins Freedom | |
| (ii) Asian Drama | |
| (iii) Discovery of India | |
| (iv) Midnight's Children | |
| (v) Anandmath | |
| (c) Match the item in Column A with Column B: | 1x5 |
| <i>Column A</i> | <i>Column B</i> |
| (i) Das Kapital | (1) J.K.Galbrath |
| (ii) Wealth of Nations | (2) Arundhati Rai |
| (iii) A God of Small Things | (3) ShivKhera |

- (iv) You Can Win
(v) A China Passage
- 4) Adam Smith
5) Karl Marx

(d) Write full forms of the following:

- (i) WHO
(ii) FIR
(iii) EU
(iv) MOU
(v) RBI

WINTER 2005
SOCIETY AND ENVIRONMENT

Group A

1. (a) What is social stratification? Explain in brief. 6
(b) Write a critical note on the origin of caste system in India and the recent changes taking place in caste system. 8
(c) Give an account of the current trends with respect to occupation. 6
2. (a) What are the consequences of inequality and how can these be reduced? 8
(b) What are the major causes of social tensions? Write in brief. 8
(c) Write in brief the most effective methods of population control. 4
3. (a) Define Plan Holiday and Rolling Plan. 5
(b) Explain Green Revolution. 5
(c) What are the genuine steps required for 'Garibi Hatao'? 10
4. (a) Describe the technological developments during the 20th century. 12
(b) List the major criteria for assessment of appropriate technology. 8

Group B

5. (a) What are the six classes of the components of ecosystems ? Describe in brief. 8
(b) Write a critical note on biosphere cycles and explain the carbon dioxide cycle. 12
6. (a) List the main causes of eco-imbalance. Suggest the remedies to prevent them. 8
(b) Explain in brief the causes for environmental degradation in India. 8
(c) Suggest the methods to control the noise pollution. 4
7. (a) How is the ozone layer being destroyed and how to prevent it ? (8)
(b) Describe in brief the sanitary land-filling method for solid waste disposal. 12
8. (a) What do you understand by urban wastes ? How can these be treated? 8
(b) What are the salient features of the Brundtland Report, 'Our Common Future'? 6
(c) Write a critical note on technology for sustainable energy. 6

Group C

9. Answer the following: 2 x 10
- (i) Define culture.
(ii) What is social mobility?
(iii) Write the Pareto's law mathematically.
(iv) Define engineering and technology.
(v) Mention two e-wastes.
(vi) What is CNG?
(vii) As per the white paper of the UK Government, how many indicators are there for a better quality of life?

(viii) Write the *correct* answer:

Thermal power plants use

- (a) coal
- (b) oil
- (c) uranium
- (d) all of these.

(ix) The Institution of Engineers (India) can be called

- (a) a Society
- (b) an Association
- (c) a Trust
- (d) none of these

(x) Write the odd one:

- (a) nitrogen
- (b) phosphate
- (c) oxygen
- (d) potash.

SUMMER 2005
SOCIETY AND ENVIRONMENT

Group A

1. (a) Is Sociology a science? Discuss. (5)
- (b) Discuss the relationship of Sociology with other social science. (5)
- (c) Differentiate between Folk ways and Mores. (5)
- (d) Differentiate between Culture and Civilization. (5)
- 2.(a) What are the major form of stratification system? (5)
- (b) What do you mean by social mobility? What are the different types of mobility? (5)
- (c) What are the recent changes in the Caste System? (5)
- (d) Discuss the changing role and functions of family. (5)
3. (a) Explain the meaning of 'work'. 'Work is a central focus in society'. Comment. (5)
- (b) Differentiate between 'Science' and 'Technology'. (5)
- (c) 'The process of production and consumption take places in a social change. (5)
- (d) Discuss the impact of technological and cultural factors on social change. (5)
4. (a) What is planning ? How it can be made more effective? (5)
- (b) Discuss the criteria for the assessment of appropriate technology (5)
- (c) What do you mean by 'Scientific Management' ? (5)
- (d) 'Technology adaptation depends upon a number of factors.' Comment. (5)

GROUP B

5. (a) What do you mean by 'Biosphere Cycle'? (5)
- (b) What factors contribute to ecological imbalance? (5)
- (c) What preventive measures are required for ecological balance? (5)
- (d) What do you understand by the term 'Global Warming'? (5)
6. (a) Does over population create environmental degradation? Explain. (5)
- (b) What is noise pollution? How it can be controlled? (5)
- (c) What measures are necessary for the protection of ozone layer? (5)
- (d) What efforts are required by the industries to minimize the impact of industrial waste on society? (5)

7. (a) What can be done to better utilize urban waste? (5)
(b) What need to be done to preserve our agriculture products, so that is not wasted? (5)
(c) What are the roles of engineers to better manage the waste? (5)
(d) What is Environment? What are the major causes of soil pollution? (5)
8. (a) What do you mean by sustainable development? (5)
(b) What is the role of technology to create sustainable energy? (5)
(c) What can be done to preserve and save the natural material for long-term sustainability? (5)
(d) What do you mean by 'Social forestry'? (5)

GROUP C

9. Answer the following:
- (i) Explain the full form of the following words (1×4)
(a) ITES (b) GATT (c) CSIR (d) UNDP
- (ii) Name the authors of the following books. (1×4)
(a) Seven habit of the following books
(b) You Can Win
(c) Human Society
(d) Area of Darkness
- (iii) Explain why these personalities are famous (1×4)
(a) Amartya Sen (b) V.V. Giri
(c) Gopal Krishna Gokhale (d) Aurobindo Ghosh
- (iv) Who are associated with the following discoveries? (1×4)
(a) Fountain Pen (b) Microphone (c) Thermometer (d) Typewriter
- (v) Explain the following (1×4)
(a) Astrophysics (b) Horticulture (c) Mycology (d) Oncology

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