

FEC7: Introduction to Environmental Sciences

References:

**Textbook of Environmental Studies for Undergraduate Courses, E. Barucha,
Universities Press (India) Pvt. Ltd.**

S.No.	Topic	Reference from E. Barucha book
1	Concept and definition of Natural resources and need for their management	2.2.1
2	Forest Resources – Use and over-exploitation, deforestation, case studies, timber extraction, mining, dams and their effects on forests and tribal people	2.2.3 (a) {pg 23-26}
3	Water resources – Use and over-exploitation of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems, Water conservation, rain water harvesting, watershed management.	2.2.3(b) {pg 26-30}
4	Mineral resources – Use and over-exploitation, environmental effects of extracting and using mineral resources, case studies	2.2.3 (c) {pg 30 – 32}
5	Food resources – World food problems, changes caused by agriculture and over-grazing, effects of modern agriculture, fertilizer-pesticide problem, water logging, salinity, case studies	2.2.3 (d) {pg 32 – 35}
6	Energy resources – Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, urban problems related to energy, case studies	2.2.3(e) {pg 35 – 48} 6.2 {pg 167 – 168}
7	Land resources – Land as a resource, land degradation, man induced landslides, soil erosion and desertification	2.2.3 (f) {pg 48 – 50}
8	Definition, types, causes, effects and control measures of air pollution	5.2 .1 {pg 113 – 122}
9	Definition, types, causes, effects and control measures of water pollution	5.2.2 {pg 123-130}
10	Definition, types, causes, effects and control measures of soil pollution	5.2.3 {pg 131 – 135}
11	Definition, types, causes, effects and control measures of marine pollution	5.2.4 {pg 135 – 140}
12	Definition, types, causes, effects and control measures of noise pollution and thermal pollution	5.2.5 {pg 140 – 143}
13	Solid waste management – causes, effects and control measures of urban and industrial waste	5.3 {pg 145 – 150}
14	Social Issues, human population and environment	6.4 {pg 172 – 173}
15	Sustainable Development	6.1 {pg 165 – 167}
16	Climate change, global warming, acid rain, ozone layer depletion	6.6 {pg 182 – 186}
17	Environmental ethics – issues and possible solutions	6.5 {pg 173 – 181}

S.No.	Topic	Reference from E. Barucha book
18	Consumerism and waste products	6.8 {pg 189 – 193}
19	Wasteland reclamation, population growth , problems of urbanisation	6.7 {pg 187 – 189}