

B.Sc. (NEP) - Sem-I
SEC08 / STUG01ELE005 - Electronics (E-waste Management)

P. Pages : 2

Time : Two Hours



GUG/W/24/15904

Max. Marks : 40

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Draw well-labelled diagrams wherever necessary.

Either:

1. a) What is E-Waste? Explain Indian and global scenario of e-waste. 4
b) Explain composition of e-waste. 4

OR

- c) Explain E-waste generation in India. 4
d) Explain possible hazardous substances present in e-waste. 4

Either:

2. a) Explain hazardous waste rules 2003 regarding Management and Handling. 4
b) State any four E-waste management rules 2015. 4

OR

- c) Explain roles and responsibility of Consumer about E-waste management. 4
d) What is Extended Producer Responsibility (EPR)? Explain in brief. 4

Either:

3. a) Write short note on historic methods of waste disposal: 4
i) dumping ii) burning
b) Explain recycling technologies of waste. 4

OR

- c) What is Landfill in waste disposal? Explain. 4
d) Explain optimal planning for computer waste. 4

Either:

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|-----------|----|---|----------|
| 4. | a) | Explain emerging recycling and recovery technologies. | 4 |
| | b) | State guidelines for environmentally sound management of E-waste. | 4 |

OR

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|--|----|---|----------|
| | c) | Write short note on environmentally sound treatment technology for E-waste. | 4 |
| | d) | What is integrated E-waste recycling? Explain. | 4 |

5. Attempt **any eight** of the followings.

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|----|---|----------|
| a) | Name any two hazardous substances present in e-waste. | 1 |
| b) | State any two compositions of e-waste. | 1 |
| c) | State any two health implications of e-waste. | 1 |
| d) | State the any two responsibilities of manufacturer? | 1 |
| e) | What is the maximum time limit for storage of e-waste in India? | 1 |
| f) | What is hazardous substance? | 1 |
| g) | What is e-waste shorting? | 1 |
| h) | What is e-waste recycling? | 1 |
| i) | Give any two examples of computer waste. | 1 |
| j) | Name any two emerging technologies for waste management. | 1 |
| k) | What is new technology for recycling? | 1 |
| l) | What is meant by environmentally sound technologies? | 1 |
