SEAT No._ (49)

No. of Printed Pages: 2

SARDAR PATEL UNIVERSITY VALLABH VIDYANAGAR **B. Sc. SIXTH SEMESTER EXAMINATION** 2018

SATURDAY 31st MARCH

10:00am to 01:00 pm

| | USC | 06CENV 03 | |
|------------------------------------|-----------------------|-----------------------------|----------------------------------|
| | WASTE I | MANAGEMENT | |
| written in | n the provided answe | including multiple choice | AL MARKS 70 questions) should be |
| | lowing multiple cho | • | (10) |
| • | ainly a part of | - | , |
| | | ry (c) Primary | (d) Pre-Primary |
| 2. pH is a ch | | | |
| (a) Chemical | (b) Physical | (c) Biological | (d) Hazardous |
| 3. Mainly there are | types of feasi | ibility assessments | |
| (a) 04 | (b) 03 | (c) 02 | (d) 01 |
| 4. are biodeg | graded to carbon diox | xide, water and methane | |
| (a) Proteins | (b) Lipids | (c) Fibers | (d) Carbohydrates |
| 5 of solid w weight or dry ma | · - | ssed as mass of moisture j | per unit mass of |
| (a) Moisture conten | t (b) Volum | ne (c) Particle size | (d) Density |
| 6. Hammer mills, slare used for | | r, grinders, chippers, rasp | mills, hydro pulpers |
| (a) Mechanical com | ponent separation | (b) Mechanical size and | shape alteration |
| (c) Magnetic separa | ation | (d) Dewatering | |
| 7. Animal waste is | included in Category | of Schedule 1 | |
| (a) 1 | (b) 3 | (c) 2 | (d) 4 |
| | source of hazardous | | |
| (a)Traders | (b) Generat | ors (c) Treators | (d) Disposers |
| 9. Pulp is refined by | y which unit? | | |
| (a) Screed | ` ' | (c) Beater | ` ' - |
| 10. The process of the is known as | | hread from one type of pa | ckage to another |
| (a) Slashing | (b) Weaving | (c) Winding | (d) Scouring |
| | | (1) | (P.T,O·) |

| Q2. Answer the following questions. (Any ten) | (20) | |
|---|------|--|
| 1. What is CETP? | | |
| 2. Explain in brief primary treatment for waste water | | |
| 3. State the working of Trickling filter | | |
| 4. What are industrial wastes? | | |
| 5. Enlist the different categories of municipal solid waste | | |
| 6. Write about, on site handling of solid waste | | |
| 7. Define biomedical waste | | |
| 8. What is incineration? | | |
| 9. Define hazardous waste according to EPA | | |
| 10. Describe the picking and carding method | | |
| 11. Enlist the sources of waste from dairy industry | | |
| 12. Explain the bleaching process in pulp and paper industry | | |
| Q.3. Discuss the ownership and management for CETP development | (10) | |
| OR | | |
| Q.3. (a) With the help of a labeled diagram explain stabilization in pond | (05) | |
| (b) Discuss the biological treatment of waste water | (05) | |
| Q.4. Write note on: | | |
| (a) Recycling of paper | (06) | |
| (b) Land filling | (04) | |
| OR | | |
| Q.4. Write note on: | | |
| (a) Transfer stations and different methods to transport solid waste | | |
| (b) Types of collection systems for solid waste | | |
| Q.5. (a) Explain different categories of biomedical waste according to | | |
| Schedule 1 | | |
| (b) Discuss the colour coding and type of container for disposal of | (04) | |
| biomedical waste | • | |
| OR | | |
| Q.5. (a) Discuss the characteristics and reactivity of hazardous waste | (06) | |
| (b) Describe wet air oxidation method | (04) | |
| Q.6. (a) Explain the recovery by Kraft process | | |
| (b) Discuss the chemical treatment for removal of colour in pulp | | |
| and paper industry | | |
| OR | | |
| Q.6. Explain the treatment of cotton and woolen textile mill waste | (10) | |
| | | |