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GUJARAT TECHNOLOGICAL UNIVERSITY M. E. - SEMESTER – III • EXAMINATION – WINTER 2012

Subject code: 734001 Date: 30/12/2012 **Subject Name: Rubber Waste Utilisation** Time: 10.30 am - 01.00 pm**Total Marks: 70 Instructions:** 1. Attempt all questions. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. Discuss the different types & specifications of the wastes. 0.1 **(14) Q.2** Discuss the Environmental impacts of tyre stock piles. (07)Write about the Classification of the processing, recycling & disposal of **(b)** (07)scrap tyres. OR (b) Describe in detail about Potential impacts of each stage of the life (07)cycle of rubber products. Explain in detail about Pyrolysis process. Q.3**(14)** OR Q.3(a) Discuss in detail about the Secondary uses for Waste Tyres. (07)(b) Explain in detail about the production of Rubber Granulate from (07)Waste & Discuss its application in detail. Discuss in detail about Rubber waste disposal options. **Q.4 (14)** OR (a) Write in detail about the application of Recycled Gum Rubber. **Q.4** (07)Mention about the Risks of rubber waste disposal to worker health & (07)**(b)** safety. Describe the different methods of devulcanising (Reclaiming) cured rubbers. 0.5 **(14)** OR Discuss the four federal acts for under the environmental protection Q.5 (08)laws which governing a Rubber plants operation steps. What are the Impacts of Tyres in energy recovery? **(b)** (06)
