

paper code: U35g-112-CT1

**Marking Scheme for TY Btech EE-I Course (Course Code= CVUA31172 Pattern 2017)**

Q.1 a	State the various controlling devices for particulate matter Explain of any one with all the details with diagram compulsory	2 Marks 4 marks
Q. 1 b	Q=A.V= Find Area A =300 sq m  Area of one bag= $\pi * D * h = 4.377$ sq m  No of bags= $300/4.377 = 69.49 = 70$ bags	2 Marks 2 Marks 2 Marks
Q.1 c	Explain the following terms in brief. (i) Sound Pressure Level (ii) Sound Power Level (iii) Sound Intensity Level (iv) Threshold of hearing	1 Marks 1 Marks 1 Marks 1 Marks
Q.2 a)	State the various controlling devices for gaseous pollution. Explain any one in detail.	2 Marks 4 marks
Q.2 b)	b) Analyze the sound pressure levels resulting from combining two sound levels 50 dB and 50 dB.	6 Marks
Q.2 c)	Explain various techniques used to control Noise Pollution with respect to Source, Transmission and Receivers end	4 Marks
Q.3 a)	Estimate forecast population by 2011 and 2021 Table indicating the following Average increase in population Average in Incremental Increase  $P_n = P + nP_0 + \frac{n(n+1)}{2} * \bar{h}$  P at 2011= 57000 P at 2021= 67000	3 Marks 1 Marks 2 Marks
Q 3 b)	various characteristics of solid Waste- Physical , Chemical etc	4 Marks
Q 3 c)	factors affecting generation of Solid Waste	4 Marks
Q4 a)	Find out the population after one, two and three decades beyond the last known decade.  Table showing the Year, Population and Increase in population.	2 Marks



	$P_n = P_0 + n.\bar{X}$ <p>Population at 2000= 52500  Population at 2010=58000  Population at 2020=63500= 63500*0.8= 50800</p>	1 Marks  1 Marks 1 Marks 1 Marks
Q4 b)	Explain the components of Municipal Solid Waste- Garbage, Trash, Rubish, Ashes etc	4 Marks
Q4 c)	State the various disposal methods of Solid Waste. Explain any one in detail.	1 Marks  3 Marks