| CLASS: | BTECH |
| :--- | :--- |
| BRANCH: | CIVIL |

TIME: 02 Hours

SEMESTER:IV
SESSION : SP/2023

SUBJECT: CE420 AIR POLLUTION CONTROL

## INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates

::::::24/02/2023::::::M

Alr Quallity Index (AQ) Categodes and Ranges

| Gutegery | Ag | $8 \mathrm{hr} \mathrm{O}_{3}$ (ppm) | $\begin{gathered} \hline \text { fir } Q_{3} \\ \text { ippmid } \end{gathered}$ | $\begin{gathered} 34 \mathrm{hr} \text { PM } 2 \text { 2 } \\ \left(\mu \mathrm{g}^{\prime} \mathrm{m}\right) \end{gathered}$ | $\begin{gathered} 24-\mathrm{hr} \mathrm{PM}_{11} \\ \left(\mu \mathrm{~g} \boldsymbol{\mathrm { b }} \mathrm{~m}^{3}\right) \\ \hline \end{gathered}$ | $\begin{aligned} & 8-\operatorname{lir} \mathrm{CO} \\ & \|\mathrm{pm}\| \end{aligned}$ | $\begin{gathered} 24-\mathrm{hr} 5 \mathrm{O}_{2} \\ \|\mathrm{pmm}\| \end{gathered}$ | 1-15 $\mathrm{NO}_{2}$ (рри) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cood | 0-90 | 0000-0.064 | - | 0.0-15.4 | 0-54 | 0.0-4.4 | 0.000-0.134 | - |
| Malcrex | 51-190 | $0065-0.034$ | - | 15.5-40.4 | 55-154 | 4.5-9.4 | Q035-0. 44 | - |
| Univalithy for sonsivive Croups | 101-150 | 0085-0.104 | 0.125-0.164 | 40.5-65.4 | 155-254 | 9.5-12.4 | 0.145-0.224 | - |
| Unlualthy | 151-200 | Q.105-0. 124 | Q. K5-0204 | 65.5-150.4 | 255-354 | 12.5-15.4 | 0.225-0.304 | - |
| Very Unheadtly | 201-300 | 0.125-0.374 | 0.205-0.404 | 150.5-250.4 | 355-424 | 15.5-30.4 | $0.305-0.614$ | 0.65-1.24 |
| Hurudous | 301-400 | use 1 hr | 0.405-0.504 | 250.5-350.4 | 425-504 | 30.5-40.4 | a.605-0.304 | 1.25-164 |
|  | 401-900 | asc 1-hr | $0.05-0.004$ | 300.5-900.4 | 905-604 | 40.5-90.4 | $0.005-1.04$ | 1.65-204 |

