GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V EXAMINATION - SUMMER 2025

| Subject Code:3150611 Date:28-0 | | | 05-2025 | |
|--------------------------------|---|--|----------|--|
| Subj | ect N | Name:Transportation Engineering | | |
| Time | Time:02:30 PM TO 05:00 PM Total Ma | | | |
| Instru | | | | |
| | 2. 3. | Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. | | |
| | 4. | Simple and non-programmable scientific calculators are allowed. | MARKS | |
| Q.1 | (a) (b) | | 03 04 | |
| | (c) | • | 07 | |
| Q.2 | (a) | | 03 | |
| | (b) | • | 04 | |
| | (c) | Explain soil stabilization in pavement construction. OR | 07 | |
| | (c) | Draw the sketch of flexible pavement and rigid pavement with description of components. | 07 | |
| Q.3 | (a) | | 03 | |
| | (b) | | 04 | |
| | (c) | Explain determination of penetration value of bitumen. OR | 07 | |
| Q.3 | (a) | Enlist different tests on aggregates. | 03 | |
| | (b) | Give the classification of highway maintenance work. | 04 | |
| | (c) | Explain aggregate impact test. | 07 | |
| Q.4 | (a) | | 03 | |
| | (b) | * | 04 | |
| | (c) | Explain different road user characteristics in traffic engineering. OR | 07 | |
| Q.4 | (a) | Significance of Coning of wheel in Railway. | 03 | |
| | (b) | | 04 | |
| | (c) | Explain various measures for the reduction in accident at curvature on highway. | 07 | |
| Q.5 | (a) | • • | 03 | |
| | (b) | | 04 | |
| | (c) | Explain the classification of Airport in detail. OR | 07 | |
| Q.5 | (a) | | 03 | |
| - | (b) | | 04 | |
| | (c) | Explain the classification of harbor in detail. | 07 | |
