GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-III • EXAMINATION – SUMMER 2013

| PDDC - SEMESTER-III • EXAMINATION – SUMMER 2015 | | | | |
|---|----------------|--|----------|--|
| Subject Code: X 30602 Date: 13-0 | | | -2013 | |
| Subject Name: Railway, Bridges and Tunnels | | | | |
| Time: 02.30 pm - 05.00 pm Total Marks: | | | : 70 | |
| Instructions: | | | | |
| | | Attempt all questions. | | |
| | | Make suitable assumptions wherever necessary. | | |
| | 3. | Figures to the right indicate full marks. | | |
| 01 | (\mathbf{a}) | Drow next skatches of a/s of normanant way, bull headed & flat facted | 07 | |
| Q.1 | (a) | Draw neat sketches of c/s of permanent way, bull headed & flat footed rails. | 07 | |
| | (b) | | 07 | |
| | (0) | Explain in detail. | 07 | |
| | | | | |
| Q.2 | (a) | Explain "coning of wheels" with neat sketch. | 07 | |
| - | (b) | Explain various rail failures with neat sketches. | 07 | |
| | | OR | | |
| | (b) | | 07 | |
| | | elevation on the curves of railway track? | | |
| | | | ~- | |
| Q.3 | (a) | | 07 | |
| | | site for a bridge. | 07 | |
| | (b) | с с с | 07 | |
| | | suspension bridge. | | |
| Q.3 | (a) | - | 07 | |
| Z .0 | (b) | | 07 | |
| | (0) | $\sum p = p = p = p = p = p = p = p = p = p $ | 07 | |
| Q.4 | (a) | Derive the formula for economic span of a bridge. | 07 | |
| C | (b) | · · · | 07 | |
| | | ventilation of tunnels. | | |
| | | OR | | |
| Q.4 | (a) | | 07 | |
| | | bridge' Vs 'swing bridge' | | |
| | (b) | Explain dust controlling methods in tunnel. | 07 | |
| 0.5 | (\cdot) | | 07 | |
| Q.5 | (a) | | 07 07 | |
| | (b) | Give classification of tunnels. OR | 07 | |
| Q.5 | (a) | | 07 | |
| v •• | (a) | one method in detail. | 07 | |
| | (b) | | 07 | |
| | (~) | cut. | | |
| | | | | |
