| SB | Roll | No |
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| S.D. | NOII | NO |

EARTHQUAKE RESISTANT BUILDING CONSTRUCTION 6th Exam/Civil/5132/6851/Nov'17

| Duratio | on: 3Hrs. M.Ma | arks:75 | | |
|------------------------|--|-----------|--|--|
| | SECTION-A | | | |
| Q1. a) F | Fill in the blanks. | x15=15 | | |
| i. | Waves can pass through solid only. | | | |
| ii. | . As per IS 1893: 2002, India is divided into seismic zones. | | | |
| iii. | . Richter scale expresses of earthquake. | | | |
| iv. | | | | |
| ٧. | is used as a retrofitting material for repair of cracks. | | | |
| vi. | . The vertical distance between epicenter and hypocenter is | | | |
| vii. | | | | |
| viii. | Strength of structure should be along the height of building. | | | |
| ix. | Delhi comes under seismic zone. | | | |
| х. | The waves can pass through solids but fail to propagate through fluids are | · | | |
| b) State true or false | | | | |
| xi. | . Collision of adjacent buildings is called liquefaction. | | | |
| xii. | i. Bhuj earthquake was occurred in 2006. | | | |
| xiii. | . A focus is also called hypocenter. | | | |
| xiv. | Magnitude of a particular earthquake can vary from place to place. | | | |
| XV. | . Flexible buildings have greater fundamental periods. | | | |
| | SECTION-B | | | |
| Q2. Atte | • • • | x5=30 | | |
| a. | What do you understand by earthquake and tectonic plate? | | | |
| b. | What do you mean by P-waves and S-waves and its properties? | | | |
| C. | Define retrofitting and what are its advantages? | | | |
| d. | · · · · · · · · · · · · · · · · · · · | | | |
| e. | | | | |
| f. | Explain the construction and working of seismograph. | | | |
| g. | | | | |
| h. | What is the liquefaction of soil? Discuss briefly. | | | |
| SECTION-C | | | | |
| Q3. Atte | | 0x3=30 | | |
| i. | · | | | |
| ii. | • | erations? | | |
| iii. | · | | | |
| iv. | | | | |
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