

School of University Polytechnic

**Diploma in Civil Engineering
Semester End Examination - Aug 2024**

**Duration : 180 Minutes
Max Marks : 100**

Sem V - N1DB504T - Earthquake EngineeringGeneral Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

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| 1) | Define shear wall? | K1(2) |
| 2) | Demonstrate the phenomenon of liquefaction. | K2(4) |
| 3) | Explain irregularity in structure. | K2(6) |
| 4) | Illustrate the point to be keep in mind while designing earthquake resistant building as per IS 13920? | K3(9) |
| 5) | Illustrate the terms: Risk | K3(9) |
| 6) | Debate the learnings from past earthquake? Explain with example of any real earthquake | K5(10) |
| 7) | Point out the way to make masonry structures more seismically resilient. | K4(12) |
| 8) | Prove: National Policies can reduce the damage due to disaster. Also mention some schemes by government. | K5(15) |
| 9) | Evaluate the need of retrofitting in RCC building? | K5(15) |
| 10) | Explore body waves and surface waves. | K6(18) |