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Code No: 136DV JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, November/December - 2020 SOIL MECHANICS (Civil Engineering) Answer any five questions All questions carry equal marks						A
$A_{\frac{1}{2}}$	Explain about soil formatic Explain about Liquid Limi				[15]	Д
3.	Explain about laboratory determination of coefficient of permeability in soils by using constant head test with a neat sketch. [15]					
4.	A horizontal stratified soil deposit consists of three layers. The coefficient of permeability of these layers is 5×10 ⁻⁴ cm/sec, 6×10 ⁻⁴ cm/sec and 8×10 ⁻⁴ cm/sec and their thickness from the ground surface are 3m, 4m and 5m respectively. Determine the average coefficient of permeability for horizontal flow and vertical flow for the stratified layers. [15]					
5.	5. Explain Newmark's influence chart for irregular areas with the help of neat sketch. [15]					
6. A load 800KN acts as a point load at the surface of a soil mass. Determine the vertical stress at a point 3m below and 4m away from the point of action of the load by Boussinesq's theory and Westergaard's theory.						
7. Explain about Terzaghi's one dimensional consolidation theory and its boundary conditions. [15]						
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