

ANURAG Engineering College

(An Autonomous Institution)

III B.Tech II Semester Supplementary Examinations, Dec-2023/Jan-2024

HIGHWAY CONSTRUCTION MANAGEMENT

(CIVIL ENGINEERING)

Time: 3 Hours**Max.Marks:75****Section – A (Short Answer type questions)****(25 Marks)****Answer All Questions**

	Course Outcome	B.T Level	Marks
1. What are the function of soil as a highway sub grade?	CO1	L1	2M
2. Differentiate base course and surface course.	CO1	L2	3M
3. Give the functions of IRC.	CO2	L1	2M
4. What are the requirements of bituminous materials?	CO2	L1	3M
5. Write the full form of MORTH code?	CO3	L2	2M
6. State the merits of rigid pavements.	CO3	L1	3M
7. How are hill roads formed?	CO4	L2	2M
8. List the famous hill roads in India.	CO4	L2	3M
9. What is bump integrator test?	CO5	L1	2M
10. What is distress in road construction	CO5	L1	3M

Section B (Essay Questions)**Answer all questions, each question carries equal marks.****(5 X 10M = 50M)**

11. A) What do you understand by wet mix macadam? Briefly explain construction steps and quality control checks during the construction of WMM base course.	CO1	L3	10M
OR			
B) What is soil stabilization? What are the different methods of soil stabilization?	CO1	L3	10M
12. A) Discuss the field and laboratory tests for quality control of embankment construction.	CO2	L3	10M
OR			
B) Explain in detail the method of construction of bituminous macadam surfacing.	CO2	L2	10M
13. A) What is the necessity for providing joints in cement concrete pavements? Discuss types of joints with neat sketches.	CO3	L3	10M
OR			
B) What are the requirements of material, plants & equipment's for bituminous pavement construction? Discuss briefly.	CO3	L3	10M
14. A) What is land slide? Give causes, prevention & control measures of landslides.	CO4	L3	10M
OR			
B) Explain with sketches, various methods of drainage of a hill road	CO4	L2	10M
15. A) Describe the procedure of Benkelman beam for evaluation of pavement surface.	CO5	L3	10M
OR			
B) Explain the method of strengthening of existing pavement with flexible overlay.	CO5	L2	10M