

CBCS SCHEME

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BAU405D

Fourth Semester B.E./B.Tech. Degree Examination, June/July 2025 Earth Moving Equipment

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Briefly explain the construction and working of Excavator.	10	L2	CO1
	b.	Discuss the types of earth moving equipments for construction and write their respective activities.	10	L3	CO1
OR					
Q.2	a.	Describe the working and construction of motor grader and explain.	10	L2	CO1
	b.	Briefly explain the various attachments of tractors. Mention their application.	10	L2	CO1
Module – 2					
Q.3	a.	Describe the generalized fuel injection system used in Earth Moving Vehicle.	10	L2	CO2
	b.	Sketch under carriage system of earth moving vehicle and list the components.	10	L3	CO2
OR					
Q.4	a.	Illustrate with a neat sketch, explain the construction and working of turbocharger.	10	L3	CO2
	b.	Briefly explain the air suspension and rubber suspension.	10	L2	CO2
Module – 3					
Q.5	a.	List out the different types of transmission system and explain any one.	10	L3	CO2
	b.	Discuss the construction and working of Hydrosift Automatic transmission.	10	L3	CO2
OR					
Q.6	a.	Describe the purpose of PTO shaft in tractors.	10	L2	CO2
	b.	Illustrate the need of final drive and state its various considerations.	10	L2	CO2
Module – 4					
Q.7	a.	Discuss the function of : i) Direction control valves ii) Flow control valves	10	L3	CO3
	b.	Write the different types of pumps used in hydraulic system and explain any one type with figure.	10	L3	CO4
OR					
Q.8	a.	Write a short note on : i) Hydraulic Actuators ii) Hydraulic Motors	10	L3	CO4
	b.	Explain with a neat sketch of depth and draft control system.	10	L3	CO4
Module – 5					
Q.9	a.	Explain the factors affecting the productivity of a Bull dozers.	10	L2	CO5
	b.	Discuss the different methods of selection of earth moving equipments.	10	L2	CO5
OR					
Q.10	a.	List out the various types of safety measures adopted for earth moving vehicle.	10	L3	CO5
	b.	Briefly explain the types of maintenance and its importance.	10	L2	CO5
