

USN								man, engo	Topo Topo Topo Topo Topo Topo Topo Topo	an to table			18AU732
- OSIV	L											30 / T	2024
Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024  Earth Moving Equipments and Tractors													
Water State of Con-	Charles No. of St.		Ea	rth	M	OV	ıng	, Ec	quipments	s and	Trac		
Time: 3 hrs. Max. Marks: 100  Note: Answer any FIVE full questions, choosing ONE full question from each module.													
	N	ote: Ans	wer a	iny I	FIVI	E fui	ll qui	estior	is, choosing ON	E full qu	estion fr	om eacn	moaute.
									Module-1		A	4	
1	a.	Explain	the f	follo	wing	g wit	h sin	nple l	line diagram:		7		
		i) Excavators ii) Motor Grader (10 Marks)											
	b.	Discuss the various attachments of Tractors and mention their applications. (10 Marks)											
•		337'41	-, 1	4 1		1.	11/	dila	OR	1:	0-11-1	1	
2	a.	and app			, exp	piain	tne	cons	truction and wor	rking of E	sundozei	s and m	(10 Marks)
	b.				eren	nt ty	pes	of e	arth moving e	quipment	and me	ention th	
		applicat								( )			(10 Marks)
					$\cap$	<b>/</b>			Module-2	*			
3	a.								systems of engir				(10 Marks)
	b.	With a	neat	diagi	am,	exp	lain t	the w	orking of turboc	chargers. I	Mention	its advan	tages. (10 Marks)
				$\forall$					OR				(10 Marks)
4	a.	With a	heln	ofa	line	diao	ram	expl	ain after cooler	system V	Tention it	s advant	ages (10 Marks)
	b.	Compai											(10 Marks)
		•					4	4	Module-3		A		
5	5 a. Name the basic types of transmission and explain any one types with a neat sk												
	b.	Explain	the	cons	truct	tion	and v	worki	ng of hydroshift	t automati	c transm	ission w	ith a diagram. (10 Marks)
				i i	4	4				A			(10 Marks)
6	a.	Mention	n the	tyne	e an	d an	nlica	itions	of 'PTO' shaft.				(10 Marks)
U	b.	Explain	with	i a ne	eat d	liagr	am o	f hyd	raulic retarders	used in ea	arth movi	ing equip	
		•	.1			Ü		100					(10 Marks)
									Module-4				
7	a.		type	es of	pur	nps	used	in hy	ydraulic system	and expla	ain any c	one type	
	h	figure.	the	func	tion	of i	Flo	w co	ntrol valves ii)	Direction	control	valves	(10 Marks) (10 Marks)
	υ.	Discuss	tile	Turic	11011	01 1	<i>)</i> 1 10	w co.	OR	Direction	COMMO	varves	(10 Marks)
8	a	a. Explain the construction and working of vane type motor with neat diagram.											
Ü	b.								ing of swash pla				(10 Marks) diagram.
					<b>&gt;</b>			8		V			(10 Marks)
.27		D'		J .			. 4.	1.	Module-5	0.4			1:00
9	a.			vari	ous	cons	idera	ations	while selecting	g an earth	moving	equipme	(10 Marks)
	b.	activitie Explain		mair	itena	ance	of ea	arthm	oving equipmen	nts.			(10 Marks)
	٠.	p.mn			4		" J		OR				( )
10	a.	Write t	he ad	lvant	ages	of	main	tainin	ng the earth mov	ing equip	ment.		(10 Marks)
	b.								es adopted for ea			nent.	(10 Marks)