Question Paper Version: A

Fourth Semester B.E./B.Tech. Degree Examination, Dec.2023/Jan.2024 **Earth Moving Equipments**

Time:	1 hr.]	
	-3	

[Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

1. Answer all the fifty questions, each question	n carries one mark
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- Use only Black ball point pen for writing / darkening the circles.
- 3. For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.
- 4. Darkening two circles for the same question makes the answer invalid.

5.	Damaging/overwri	ting, using whiter	ners on the OMR	sheets are strictly
	prohibited.			
1.	Scraper is used for a) Scraping of soils c) execution, transpor	ting and dumping of so	b) excavation only oil d) None of these	у
2.	In early days bulldoze a) steel	ers has blades b) fiber	c) wooden	d) Iron
3.	A is very useful site of work, to make a) Scraper	equipment and it can be the land level, etc.,. b) Grader	c) Bulldozer	d) Excavator
4.		chinery uses as t b) Mechanical drive	the primary source of more c) Hydraulic drive	otion. d) Electrical drive
5.	Which is not the compa) stick	ponent of excavator b) boom	c) zommer	d) side link dog bones
6.	Which application the a) Demolition	excavator is used for b) Material Handling		d) All of the these
7.	Backhoe loaders are u a) chain	isually mounted on, b) stand	c) grapples	d) Tires
8.	Which is not the attac a) bucket	hment of loader b) Hay and silage	c) Grapples	d) Tires
9.		or carries shovel at its l b) clamshell	lower end. c) backator	d) power shovel
10.	is heavy equipme: a) excavator	nt with a longblade that b) grapples	at is used to create a flat c) backator	surface. d) Grader

11.	The is one of the a) Double level curve c) Carbide coated black	d blade	b) Single bevel flat blad) Straight blade	ade
12.	The heavy equipment a) Road roller	used to compact mate b) Power shovel	rials like concrete, soil c) Tractor	gravel d) excavator
13.	The system is nece combustion a) Ignition system		engines in order to p	
14.	combustion engine by	y forcing extra compre	power output and the ssed air into the combu c) Carburetor	stion chamber
15.	Which is not the susp a) wire suspension c) Hydroelastic suspe		b) Air suspension d) Rubber spring susp	pension
16.		tracks as a under carrie b) Traction c)		Less Manoeuvarbility
17.	Which is common air a) Cooler failure	suspension problem? b) Air line failure		d) Sound failure
18.	a) sound	nt to the efficiency of t b) timing	he power production in c) petrol	engine. d) air
19.	Which company Not a) caterpillar	a manufacture of exca b) JBM	e) JCB	d) CASE
20.	VOLVO construction a) Hesargatta	h equipments, India loo b) Peenya	cated in c) Doddaballapur	d) Narasapura
21.	The mechanism used wheels. a) transformation system of transmission system.	tem	b) Energy conversion d) All of the these	
22.	The transmission sys a) countershaft transi c) planetary transmis	mission	rge torque in the most of b) Auxiliary transmis d) compound transmi	sion
23.	One-way clutch is al a) spring clutch	so known as b) single clutch	c) sprag clutch	d) All of these
24.		sed, typically on hear friction based braking b) retros	vy vehicles to augmen system c) retarders	d) airchips
25.	Which is not a type of a) engine	of Retarders? b) hydraulic	c) pneumatic	d) electric

26.				
	a) The passage ways		b) Gear pump	
	c) The governor		d) All of the above	
27.	Select the type of PT	O shaft		
	a) Domestic	b) Metric	c) Shear	d) All of the above
28.	Final drive is a			
-01	a) torque increasing u	ınit	b) torque reduction un	it
	c) speed increasing u		d) speed reduction uni	And the second s
29.	Which gear will prod	uce clicking noise duri	ing teeth contact	ν
	a) worm gear	b) bevel gear	c) helical gear	d) spur gear
20	XXII * 1			
30.			rs are not controlled by	
	a) Rate of flow	b) Pressure	c) Direction of flow	d) Speed
31.	Electromagnetic retai	ders is based on		
	a) Eddy current princ		b) Seeback effect princ	ciple
	c) Induction principle		d) Magnetic levitation	1
22	****			
32.		Tel. 100 (100 (100 (100 (100 (100 (100 (100	ws the outer drive whee	-
	a) Differentials	b) Bevel gears	c) torque tube	d) floating
33.	'PTO' stands for			
	a) Power take-off	b) Push to-out	c) Power trial-off	d) Power take-on
34.	The mechanism which	sh automatically disand	gages the PTO when it	strikes a strong object
JT.			ect thus protecting it fro	
	a) Slip-clutch	b) Non-shear type	c) Shear type	d) Metric
	· · ·		7,7	-,
35.	Gear pump is also ca		Contract of the second	
	a) Positive displacem		b) Negative displacem	ent pump
	c) Displacement pum	p	d) None of the above	
36.	The device which cou	verts mechanical ener	gy of derive into hydrau	ilic energy
	a) Motor	b) Pump	c) Valve	d) None of the above
	4		.1	.,
37.	Select the type of gea	* A. W *		
	a) Balanced	b) Gerotor	c) Unbalanced	d) None of above
38.	What is the function	of the control valve		£
50.	a) To perform two op		ž.	
		nt parameter of the fluid	d	
	c) To control the dire	1		
	d) None of the above			
20	W/la: ala (1 C 1	1	1	1 1 0
39.		lowing are not the mai	n selection criteria of th	e control valves?
	a) Type of actuation c) Space requirement		b) Software support	ditions

40.	A gerotor unit consists of an inner and outer outer rotor has	rotor. The inner rotor	has N teeth, and the
	The state of the s	N + 3 teeth	d) N teeth
41.	a) for new operator b)	Just a set of guideline None of these	es
42.	a) Normal starting and stopping of equipmentb) Only for less fuel conditionc) For hazardous conditionsd) None of the above		
43.			d) Filing
44.	a) government regulations b	ur?) Lesser cost) None of these	
45.	force. a) Hydraulic motor b	draulic fluid to produ) Hydraulic valve) Hydraulic pumps	ace linear motion and
46.	a) Chick for faults b	eavy earth moving equal () Chick series scheduled () All of the these	
47.	a) depending upon type of solid/material b	ent b) Depending on the w l) All of the above	eather condition
48.	If you see warning labels or signs on earth moa) Read and understand what they meanb) Follow all the precautions in the labelsc) Ask other, if you don't understandd) All of the above	ving equipment you s	hould
49.		re called c) Conveyor	d) Dump tracks
50.	a) Vane pumps	elical gears? b) Lobe pump d) External gear pump *	s
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