Question 1 Load torques can be classified into how many types? Correct Feedback: Incorrect Feedback: Choose one answer.
 ○ 1. Three Feedback: ● 2. Two Feedback: ○ 3. Four Feedback: ○ 4. Five Feedback:
Question 2 Torque inversely varies with the speed in the windage load torque component. Choose True or False. 1. True 2. False
Question 3 What type of force handles for active torques? Choose one answer. 1. Strong nuclear forces 2. Weak nuclear forces 3. Gravitational forces 4. Electrostatic forces
Question 4 Passive torques always oppose the motion of the driven machine. Choose True or False. 1. True 2. False
Question 5 What is the condition for the steady-state operation of the motor? Choose one answer. 1. Load torque > Motor torque 2. Load torque < < < Motor torque 3. Load torque = Motor torque 4. Load torque < Motor torque
Question 6 Choose the correct one. (* stands for multiplication, J represents the moment of inertia, w represents angular speed). Choose one answer. 1. J*d(w)/dt = Load torque - Motor torque 2. J*d(w)/dt = Load torque + Motor torque 3. J*d(w)/dt = Motor torque - Load torque 4. J*d(w)/dt = Load torque * Motor torque

Question 7

Calculate the power developed by motor using the given data: Eb= 20V and I= 10 A. (Assume rotational losses are neglected)

	Choose one answer.
Que	stion 8
	Which one is an example of variable loss? Choose one answer. 1. Windage loss 2. Hysteresis loss 3. Armature copper loss 4. Friction loss
Que	stion 9
	The unit of the torque is Choose one answer. 1. N-m 2. N-m2 3. N-m/sec 4. N-Hz
Que	stion 10
	Calculate the value of the torque when 10 N force is applied perpendicular to a 10 m length of roc
	fixed at the center.
	Choose one answer. ■ 1.100 N-m
	2.200 N-m
	○ 3.300 N-m
	○ 4. 400 N-m
Que	stion 11
Quo	What is the dimensional formula for torque?
	Choose one answer.
	● 1. [ML2T-2]
	○ 2. [MLT-2]○ 3. [M1L2T-3]
	○ 4. [LT-2]
~	- Car 40
Que	stion 12 If the starting torque of the motor is less than the load torque, the motor will fail to start.
	Choose True or False.
	1. True
	○ 2. False
Que	stion 13
	Duty cycle (D) is
	Choose one answer.
	1. Ton÷Toff
	● 2. Ton÷(Ton+Toff)
	∴ 3. Ton÷2×(Ton+ Toff) ∴ 4. Ton÷2×Toff
	♥♥II,=01♥II

Question 14	
The unit of angular acceleration is rad/s2.	
Choose True or False.	
1. True	
○ 2. False	
Question 15	
Calculate the shaft power developed by a motor using the given data: $Eb = 50V$ and $I = 60$ A. Assum	ıe
frictional losses are 400 W and windage losses are 600 W.	
Choose one answer.	
○ 1. 4000 W	
● 2. 2000 W	
◯ 3. 1000 W	
○ 4. 1500 W	
Question 16	
Function of power modulator is	
Choose one answer.	
1. Modulates flow of power	
2. acts as converter	
3. both	
O 4. none of the above	
Question 17	
Parts of electrical drive	
Choose one answer.	
1. Power Modulator, electrical motor, source, control unit	
2. Electrical Motor, source, control unit	
3. Electrical Motor, source, control unit, ramp generator	
4. Electrical Motor, source, control unit, converter, ramp generator	
Question 18	
Choice of Electrical Drives depends on	
Choose one answer.	
1. steadystate operations requirement	
2. transient operations requirement	
3. both	
○ 4. none	
Question 19	
In forward motoring	
Choose one answer.	
1. Power Positive and Torque positive	
2. Power Negative and Torque positive	
3. Power Positive and Torque Negative	
4. Power Negative and Torque Negative	
Question 20	
In forward Braking	
Choose one answer.	
1. Power Positive and Torque positive	
2. Power Negative and Torque positive	
3. Power Positive and Torque Negative	
4. Power Negative and Torque Negative	

Question 21 In reverse motoring
Choose one answer. 1. Power Positive and Torque positive 2. Power Negative and Torque positive 3. Power Positive and Torque Negative 4. Power Negative and Torque Negative
Question 22
In reverse braking Choose one answer. 1. Power Positive and Torque positive 2. Power Negative and Torque positive 3. Power Positive and Torque Negative 4. Power Negative and Torque Negative
Question 23
Number of components of load torque are Choose one answer. 1. 2 2. 3 3. 4
O 4. 5
Question 24 friction torque can be resolved intonumber of components. Choose one answer.
Question 25
in fans ,compressors, the load torque is proportional to speed squared Choose True or False. ■ 1. True ○ 2. False
Question 26
Electric drive operates inmode/s. Choose one answer. 1. steady state 2. acceleration with starting 3. deceleration including stopping 4. all
Question 27
Acceleration and deceleration are transient mode Choose True or False. ■ 1. True ○ 2. False
Question 28
Flectrical drive is becoming more and more popular because

Electrical drive is becoming more and more popular because Choose one answer.

 1. It is simple and reliable 2. It provides smooth and easy control 3. It is cheaper in cost 4. All of the above
Question 29
Electric motor and control system are the basic elements of the electric drive. Choose True or False. 1. True 2. False
Question 30
What is Load Equalisation?
Choose one answer.
1. Process of smoothing the fluctuating load Resease of removing the load.
2. Process of removing the load3. Process of changing the voltage level
4. Process of changing the speed