Joint Director, Vocational Education & Training, Regional Office, Nasik-2 PRACTICAL EXAMINATION - QUESTION PAPER

Duration: 60 Minutes (Time -1	•	Date : 21/01/2020
Seat No		Total Marks -80
Instructions: (1) All questions are compulsory (2) Questions are of multiple choi alphabet from A,B,C, D alter circle against each question r (3) There is no negative marking (4) Any name or any symbol or paper, if observed it will be tr	ce type having A,B,C, D alterr rnatives of a correct answer number in answer sheet. for wrong answer. marking of any type is not	natives . You have to select one and darken the corresponding
Q.01 DC Generators are installed (A) Iron losses (C) Sparking	near the load centers to reduce B) Line losses D) Corona losses	9
Q.02 which of the following moto (A) D.C. Shunt motor (B) D.C. Series motor (C) Single Phase Induction Mo (D) Reluctance Motor	•	refrigerators?
Q.03 A 18 V Power supply is conn flow in the coil is (A)1mA (B) 10 mA	nected across a coil with a wind (C)100 mA	ling resistance of 180Ω. Current (D)1A
Q.04 Which of the following moto (A) Repulsion Motor (C) Hysteresis Motor	ors is used in Mixer. (B) Reluctance Motor	
Q.05 A 330 pF capacitor and a 22 voltage across the 330pF capacitor (A) 3 V (B) 6V	acitor is	cted across 6V DC source. The (D) 0V
 Q. 06 Power Factor of an electrical (A) R/Z (B) Cosine of phase angle differ (C) Ratio of useful current to to (D) all of the above 	al circuit is equal to rence between current and Vol	
Q. 07 On which of the following fa(A) Resistance of the conducto(C) Length of the conductor		•
Q. 08 Which is Zero temperature(A) Aluminium(C) porcelain	co-efficient of resistance? (B) Carbon (D) Manganin	

Q.	09 Laminated cores in electrical machir(A) Copper loss(C) Hystersis loss	nes are used to reduce (B) eddy current loss (D) All of the above	
Q.	10 Generally Grounding is provided for (A) Only for the safety of the equipmen (B) Only for the safety of the operating (C) Both (A) and (B) (D) None of the	t personnel	
Q.	11 When the specific gravity of the elec is in	-	educed to 1.1 & 1.15, the cell
	(A) Charged state(C) Both (A) and (B)	(B) Dis-Charge state(D) Active State	
Q.	12 Which of the following motors is No.(A) D.C.Series Motor(C) Squirrel cage Induction motor	n-Self starting (B) Synchronous motor (D) wound round inductior	n motor
Q.	13 Star-Delta starting of motors is not p (A) Single phase motor (C) Low horse power motors	oossible in case of (B) Variable speed motors (D) High speed motors	
Q.	14 For 12V and 40mA, the Power is (A) 480 mW B) 0.480W	(C) 480,000μW	D) all of the above
Q.	15 A 12 volts are applied across a resis the resistor	stor. A current of 3mA is mea	sured, what is the value of
Q.	(A) 4Ω B) 400Ω 16 The purpose of providing an Iron co (A) Provide support to windings (B) Reduce hysteresis loss	(C) $4k\Omega$ re in transformer is to	D) 4.4Ω
Q.	(C) Decrease the reluctance of magnetic17 Which method can be used for absol(A) Lorentz method(B) Re	lute measurement resistance leigh method	duce eddy current losses
Q.	(C) Ohm's Law (D) What 18 Two copper conductor have equal lead times that of the other. If the conductor the resistance of other conductor will be	r having small cross sectiona	
Q.	(A) 160 ohms (B) 80 ohms 19 A UJT has (A) Two PN lyngtion (B) and PN lyng	`,	(D) 10 ohms
Q.		Above the principle of (B) Thermo couple instrum	
Q.	(C) Moving Iron instrument21 Two 1.2 kΩ resistors are in series ar resistor. The total resistance is	()	
	(A) 138Ω (B) 1389Ω	(C) 5700Ω	(D) 880Ω

Q	22 A double Squir A) Two rotors mo (B) Two parallel w (C) Two parallel v (D) Two series wi	ving in opposite vinding in stator vinding in rotor				
Q	23 An OR gate had its Truth table is (A) 6	s 6 inputs. The no	umber of input		(D) 128	
Q	24 Which of the fo (A) Lathe Machine (C) Locomotive	ollowing applicat	ion requires hig	jh starting fugal Pump	torque	
Q	 Q. 25 if the field of D.C. shunts motor gets opened while motor is running (A) The speed of motor will be reduced (B) The armature current will reduce (C) The motor will attain dangerously high speed (D) The motor will continue to run at constant speed 					
Q	 Q. 26 Speed control of a Universal motor is achieved by (A) Varying field flux with tapped field winding (B) Connecting rheostat in series (C) Applying variable voltage by means of silicon controlled rectifier (D) All of the above method 					
Q	 Q. 27 In a three phase induction motor, the number of poles in the rotor winding is always (A) Zero (B) More than the number of poles in stator (C) Lass than the number of poles in stator (D) Equal to the number of poles in stator 					
Q	28 Minimum volta (A) Unity (C) Leading	(1	curs when the p B) Lagging D) Zero	oower facto	r of the load	İS
Q	29 Iron loss in D.C (A) Speed (C) Voltage	C. machines are ir	(B) Load	ariations in & Voltage	1	
Q	30 0.025W mean (A) 25 kW (C) 2500 μW	S	(B) 0.0002 (D) 25 mV			
Q	31 The field coils (A)Mica (C)Cast Iron	of DC generators	are usually mad (B) Coppe (D) carboi	r		

Q.	32 5HP, 50Hz, 3 phase, 440V, 4 pole induction motor are available for the following RPM		
	(A) 1500 RPM (C) 750 RPM	(B) 1800 RPM (D) 3000 RPM	
Q.	33 The insulating material for a ca(A) low cost(C) High Mechanical Strength	able should have (B) High dielectric Strength (D) All of the above	
Q.	2. 34 A squirrel cage induction motor is not selected when (A) Initial cost is main consideration (B) Maintenance cost is main consideration (C) Higher starting is main consideration (D) All Above considerations are involved		
Q.		anode is usually made of B) Aluminium (D) Graphite	
Q.	36 A power transformer is usually (A) KW (B) KVAR	y rated in (C)KWh (D) KVA	
Q.	37 The An induction motor is (A) self starting with zero torque (B) self starting with High torque (C) self starting with low torque (D) Non self starting		
Q.	38 The capacitors used in single p (A) Voltage rating (C) Polarity Marking	phase capacitor motors have no (B) Dielectric Medium (D) Definite value	
Q.	39 Which of the following motor(A) Capacitor run motor(C) Capacitor start motor	will have relatively higher power factor (B) shaded pole motor (D) split phase motor	
Q.	40 which of the following loss in a (A) Mechanical loss (B) core lo	DC generator is dissipated in the form heat oss (C) Copper loss (D) All of the above	