1.	For service entrance conductors, the	minimum size of copper wires	the code allows is
	a. 3.5 mm ² b <mark>. 5.5 mm²</mark>	c. 8.0 mm ²	d. 14 mm ²
2.	The maximum number of disconnects location is a. 4	s the code allows per service g c. 8	rouped in any one d. 10
3.	In general, switches shall be so wired a. grounded b <mark>. ungro</mark>	l that all switching is done in the <mark>runded</mark> c. both a and b d. neit	
4.	When circuit breaker are installed in e certain percentage. What is this percentage. a. 60% b. 80%		e usually derated to a d. 70%
5.	Which of the following requires a moinal automatic and a moinal automatic au	sture seal at all points of termir b. bare conduc d <mark>. mineral-inst</mark>	ctor feeders
6.	For a feeder supplying household coor maximum unbalanced load on the ne load on the ungrounded conductors. a. 40% b. 50%		
7.	A is a protective device for I surge current, and it also prevents co repeating these functions. a. surge arrester b. auto f	ntinued flow of follow current w	
8.	volts between conductors.		
	a. 24 b <mark>. 50</mark>	c. 120	d. 150
9.	Service conductors between the stree entrance run underground is known a a. drop b. loop		nnection to the service d. cable
10.	EMT installed in a wet location, shall a. protected against corrosion c. raintight type		sistant
11.	Dual-voltage motors that have a diffe voltages shall be marked with the coo kva per horsepower. a. highest b. average		
12.	Conductor A.W.G. numbers vary a <mark>. inversely</mark> b. proportionally	to the ampacity. c. directly	d. bi-laterally
13.	Type TC power and control cable ma a. in outdoor locations when sup b. as open cable on brackets c. where exposed by physical dama d none of these	ported by a messenger cable	

d. none of these

14.	 Raceways on the outside of buildings shall be a. watertight and arranged to drain c. raintight and arranged to drain 	 b <mark>. weatherproof and covered</mark> d. rainproof and guarded
15.	. Receptacles mounted on need not be gro a. outdoor circuits b. garage walls c. <mark>po</mark>	
16.	. Which of the following may not be used in damp o a. AC armored cable b. EMT c <mark>. or</mark>	
17.	. The ampacity of a 125 mm ² IGS cable is a <mark>. 119</mark> b. 168 c. 21	_ amperes. 5 d. 255
18.	Which of the following is the maximum allowable r appliance where the branch overcurrent device is means? a. 1/8 hp b. ¼ hp c. ½	used as the appliance disconnecting
19.	Elevator traveling cables for operating on necessary to maintain concentricity. I. signal II. control a. I only b. II only	circuits shall contain nonmetallic fillers as c <mark>. both I and II</mark> d. neither I nor II
20.	. How would you seal unused ko's in panels and bo a. cardboard c. tape	xes? b. duct seal d. <mark>metal plugs and plates</mark>
21.	 Liquidtight flexible conduit shall not be permitted _ a. in hazardous locations b. in high temperature areas c. in exposed and concealed work d. where installations requires flexibility or provide the statement of th	
22.	. Hoistway is a in which an elevator or du a. shaftway b. hatchway c. we	umbwaiter is designed to operate. ell hole d <mark>. all of these</mark>
23.	 Where devices containing disconnecting means a shall be provided to operate the disconnecting me is permitted? a. devices cannot be mounted out of reach c. ladders 	
24.	is defined as properly localizing a fault equipment affected, accomplishing by choice of se a. monitoring b. coordination	
25.	Conductors for festoon lighting shall be of theI. thermoplasticII. rubber covereda. I onlyb. I or II only	type. III. shielded c. II or III only d. <mark>I, II, or III</mark>
26.	 A receptacle outlet installed outdoors shall be loca outlet cover or plate. a. persons c. metal 	ated so that is not likely to touch the b. water accumulation d. none of these

27.	Metal enclosures to protect from phys grounded.	-	equired to be
	a. service conductorsc. cable assemblies	b. feeders d. none of these	
28.	switches shall be used for capacitor sw a. Isolation c. Shunt	itching. b. Group-operated d. High-voltage	
29.	The secondary circuits of wound-rotor AC moto etc. shall be considered as protected against ov a. disconnect c. breaker		
30.	Branch circuit conductors supplying a single mo percent of the motor full-load current ra a. 80 b. 100		not less than <mark>d. 125</mark>
31.	Conductors supplying two or more motors shall load current rating of all the motors plus group.		
	a. 15 b <mark>. 25</mark>	c. 40	d. 50
32.	plugs driven into holes in masonry, con used. a. metal b. plastic	icrete, plaster, or similar ma c. leather	iterials shall not be d. wooden
33.			
34.	Service entrance cables, where subject to phys the following?		ected in which of
	I. EMT II. IMC III. rigid m a. III only b. II and III	etal conduit c <mark>. I, II and III</mark>	d. I and III
	Operation at loads, and intervals of time, both of definitions of		vide variation is the
	a. varying duty c. cycle	b. demand factord. periodic duty	
36.	Underground cable installed under a building sl the outside walls of the building.		
	a. sleeve b. duct bank	<mark>c. gutter</mark>	d. raceway
37.	A unit of an electrical system which is intended be a	to carry but not utilize elect	ric energy would
	I. light bulb II. snap switch III. a. I only b. III only	. device IV. receptacl c. I, II and IV	e d. II, III, and IV
38.	boxes shall not be used where con- locknuts or bushings are to be connected to the		g the use of
	a. round b. shallow	c. device	d. gang

 Lampholders installed over a. porcelain 	highly combustible mate b. low smoke	erial shall be of the c. switched	type. d <mark>. unswitched</mark>	
40. When an outlet is removed conductors supplying the oral tapedc. shorted together		or raceway, the sections b <mark>. dead-ended</mark> d. removed from the ra		
 41. Circuits used only for the o supply to fire pump equipm overcurrent device where s a. shall be permitted c. not stated in the code 	ientto be cor separately provided with b. sha	nnected on the supply sid		
	istible dust f water pors may be present in t <mark>ignitible fibers or flyings</mark>	he air		
43. The maximum number of q a. two b <mark>. fou</mark>	uarter bends in one run r c. five	of EMT is e d. nor	e of these	
 44. Which of the following elec a. 3.5 mm² 	trical conductor has the b. 8.0 mm ²	highest resistance c. 2.0 mm ²	d. 5.5 mm ²	
 45. In the schedule of loads for motor circuits, which of the following is NOT included? a. Type of motor b. Motor as numbered or identified in the power layout c. Motor's manufacturer d. Number of phase 				
 What is the allowable ampained and exposed to an ambien a. 45 A 		opper conductor with an a	area of 8.0 mm ² d. 60 A	
47. If the project is extensive a the issuance of the electric shall not be longer than ho a. 7	al permit need not be iss	sued immediately. Howe		
48. Location which are hazardo a. Class I	ous because of the prese <mark>b. Class II</mark>			
49. Operation at substantially a a. periodic duty b. inte			t time duty	
50. The minimum insulation level for the neutral conductors of solidly grounded systems shall be				
a. 600 V	b. 300 V	c 500 V	d. 1,000 V	