Electrical Wiring Industrial canadian 4th Edition Herman Test Bank

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Unit 1–Contract Documents and Drawings

MULTIPLE CHOICE

1.	Which MasterFormata. Division 11b. Division 23c. Division 26d. Division 33	t specifi	cation division	does g	eneral electrica	ıl work	fall under?
	ANS: C BLM: Remember	PTS:	1	DIF:	Easy	REF:	EWI p. 2
2.	For what type of pay amount, regardless of a. lump sum b. unit price c. cost plus fee d. net sum					omplete	a job for a fixed dollar
	ANS: A BLM: Remember	PTS:	1	DIF:	Easy	REF:	EWI p. 3
3.	Which drawing show building?a. drawing E1b. drawing E4c. drawing E6d. drawing E8	rs the el	ectrical ratings	and loc	cation of the tw	o new t	ransformers feeding the
	ANS: A BLM: Higher Order	PTS:	1	DIF:	Moderate	REF:	EWI p. 5
4.	What type of drawinga. one-line diagramb. elevationc. site pland. floor plan	-	the vertical fac	ces of a	building?		
	ANS: B BLM: Remember	PTS:	1	DIF:	Easy	REF:	EWI p. 5
5.	On which drawing an a. E4 b. E6 c. E9 d. E10	e the de	etails about the	cable ti	ray and the con	ductor j	placement in the cable tray?
	ANS: C BLM: Higher Order	PTS:	1	DIF:	Moderate	REF:	EWI p. 7

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6.	A measurement of 50 mm is taken from drawing E3. What length does this represent in the actual building? a. 50 mm b. 500 mm c. 5 m d. 50 m							
	ANS: C Drawing E3 E3 scale is 1:100, 50 mm x 100 = 5000 mm = 5 m							
	PTS: 1	DIF:	Challenging	REF:	EWI p. 7	BLM: Higher Order		
7.	 7. Which drawings contain the information about the building's power distribution? a. elevation drawings b. electrical detail drawings c. lighting and power drawings d. riser diagrams 							
ANS: D Drawing E6								
	PTS: 1	DIF:	Moderate	REF:	EWI p. 7	BLM: Higher Order		
8.	What type of scale ua. architecturalb. engineeringc. metricd. civil	ises feet	and inches?					
	ANS: A BLM: Remember	PTS:	1	DIF:	Easy	REF: EWI p. 7		
9.	According to the Ele a. 50mm b. 100mm c. 1m d. 5m	ectrical l	Elevations and	Details	Drawing E8, w	that is the width of MCC	C-101?	
	ANS: C Drawing E4 E4 scale is 1:20, 50 mm \times 20 = 1000 mm = 1 m							
	PTS: 1	DIF:	Challenging	REF:	EWI p. 7	BLM: Higher Order		
	<u></u>							



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- 10. Refer to the symbol. What does it represent in the industrial building's drawings?
 - a. thermostat
 - b. motorized damper
 - c. combination starter
 - d. unfused disconnect switch

ANS: C Drawing E1

	PTS: 1	DIF:	Moderate	REF:	EWI p. 7	BLM:	Higher Order
11.	Refer to the symbol. a. contactor b. combination star c. switch and fuse d. fused disconnect	ter	oes it represent	in the i	ndustrial build	ing's dr	awings?
	ANS: B Drawing E1						
	PTS: 1	DIF:	Moderate	REF:	EWI p. 7	BLM:	Higher Order
12.	When pricing a job, y units?a. number of appreseb. job site conditionc. lengths of condud. number of device	ntices 1s ctors	f the following	factors	would be cons	idered 1	to adjust the standard labour
	ANS: B BLM: Remember	PTS:	1	DIF:	Easy	REF:	EWI p. 10
13.	After the contract is a a. Change Order b. Material Take-of c. Amended Electri d. Job Specification	f ical Flo		nent aut	horizes a contra	actor to	add an extra receptacle?
	ANS: A BLM: Remember	PTS:	1	DIF:	Easy	REF:	EWI p. 11

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- 14. What designation satisfies the safety standard requirements for all electrical equipment installed in Canada?
 - a. inspected by ESAb. ULC approved
 - c. OHSA compliant
 - d. made in Canada

ANS: B PTS: 1 DIF: Easy REF: EWI p. 12 BLM: Remember

- 15. An electrical job has been completed and has passed the final inspection. When can additional lighting circuits be added?
 - a. when there is a new electrical permit
 - b. when the inspector has given approval
 - c. when there is a Request for Change Order
 - d. any time they are required

ANS: A PTS: 1 DIF: Moderate REF: EWI p. 12 BLM: Higher Order

SHORT ANSWER

1. Briefly describe the difference between an addendum and a change order.

ANS:

An addendum is an addition or clarification issued to bidders *before* the bidding is closed, whereas a change order is a change made to the contract *after* the contract has been awarded.

PTS: 1 DIF: Easy REF: EWI p. 3|EWI p. 11 BLM: Remember

2. According to the industrial building's specifications, what is the requirement for bonding in raceways?

ANS:

According to Technical Specification 26 05 33, a separate bonding conductor must be provided in all non-metallic raceways.

PTS: 1 DIF: Moderate REF: EWI p. 5 BLM: Higher Order

3. What do the specifications say about the electrical contractor's responsibility for the telephone system?

ANS:

Referring to Technical Specification 27 30 00, the contractor must supply and install a complete system of empty conduits (minimum 21 mm) with pull strings, terminal cabinets, pull boxes, and outlets as shown on the drawings or described herein.

PTS: 1 DIF: Moderate REF: EWI p. 5 BLM: Higher Order

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4. What are shop drawings used for?

ANS:

They are provided by equipment manufacturers to show details of custom-made equipment for a specific job.

PTS: 1 DIF: Easy REF: EWI p. 7 BLM: Remember

5. Outline the steps involved when providing a job estimate.

ANS:

The main steps include preparing a material take-off, tabulating and pricing, and then summarizing the costs. Material take-offs mean counting, measuring, and listing all of the material, devices, and equipment required to complete the installation and fulfill the contract. Pricing means assigning actual individual costs for each item, as well as the labour required to install everything. Standard labour units are usually used, as established by various organizations, based on specified working conditions. These units would be adjusted according to actual job conditions. Summarizing the job estimate will also include other costs, such as overhead, tool and equipment rentals, travel, and, of course, profit.

PTS: 1 DIF: Easy REF: EWI pp. 9-11 BLM: Remember

6. What is required if unapproved equipment is to be used on the job?

ANS:

Arrangements must be made for field approval by the inspection authority before it can be installed.

PTS: 1 DIF: Easy REF: EWI p. 12 BLM: Remember