



# Sample Questions

## Construction & Maintenance Electrician

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6. When installing a solar photovoltaic array which type of cable is required for interconnecting modules?  
(Refer: CEC Table 11)
- A STOO  B SJOO  
 C SEWF-2  D SJOW
7. Which of the following is the voltage rating, temp rating and use of TEW equipment wire?  
(Refer CEC Table 11)
- A 600V, 60degrees, wet location  B 640V, 75degrees, wet location  
 C 340V, 105degrees, hard usage  D 600V, 105degrees, not for hard usage
8. Why are the individual pairs of UTP and STP cable twisted?
- A Twisting increases bandwidth  B Twisting decreases crosstalk  
 C Twisting helps the installer identify the pairs  D Twisting adds strength to the fragile cable.
9. What is the minimum size of single-conductor aluminum-sheathed cable that can be used for a consumer's service?  
(Refer: CEC Rule 6-304)
- A #3 awg  B #4 awg  
 C #5 awg  D #6 awg
10. Neutral supported cables shall be supported in spans of not more than this meter in length?
- A 34  B 24  
 C 28  D 38
11. When installing single conductor metal-sheathed cables which of the following is an acceptable method for reducing the sheath current?
- A Bond all of the sheaths together with # 6 AWG bare copper.  B Float the sheaths at the load end.  
 C Bond the sheath to all non-current carrying components.  D Use the sheath as the bonding conductor.

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12. Which of the following types of flexible cords is suitable to supply a temporary panel?  
(Refer: CEC Table 11)
- (A) SJ  (B) SJOW  
 (C) SOW  (D) STO
13. What is the maximum voltage rating of type MI Mineral-Insulated Cable?  
(Refer: CEC Table D1)
- (A) 750 volts  (B) 300 volts  
 (C) 600 volts  (D) 500 volts
14. What is the minimum size of neutral support cable (NS75 aluminum) that can be used to supply a 100A 208V three phase four wire service? (Refer: CEC Table 36A)
- (A) #6  (B) #2  
 (C) #3  (D) #1
15. Warning notices shall be placed on exposed portions of high voltage cables at a spacing not to exceed this amount m?  
(Refer: CEC 36-006)
- (A) 12  (B) 10  
 (C) 16  (D) 8
16. A heating cable set is to be buried in concrete to melt the snow that may accumulate on a walkway leading into a building. What is the minimum depth of the cable set if the area is not subject to vehicular traffic?  
(Refer: CEC 62-306)
- (A) 50mm  (B) 100mm  
 (C) 70mm  (D) 120mm
17. What is the maximum voltage rating of type MI Mineral-Insulated Cable?  
(Refer: CEC Table D1)
- (A) 600 V  (B) 750 V  
 (C) 300 V  (D) 1000 V



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24. What CEC Table would be used for determining ampacity of single armoured cable Aluminum conductor that is run in free air?

(A) Table 1.

(B) Table 4.

(C) Table 2.

(D) Table 3.

25. What is the maximum voltage between any 2 conductors of a non-metallic sheathed cable?  
(Refer: CEC 12-502)

(A) 600V

(B) 300V

(C) 250V

(D) 200V