**Week 3 Exercise 21 22 Worksheet**

Exercise 21

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| What is the maximum current rating for sockets in Group 4 of AS/NZS 3123? |

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| What is the difference between Group 5 and Group 6 sockets according to AS/NZS 3123? |

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| Can a socket in Group 2 of AS/NZS 3123 be used for a load that requires a neutral conductor? Justify your answer. |

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| What is the maximum current rating for a three-phase, round-pin socket with a neutral circuit according to AS/NZS 3123? |

Exercise 22

Refer to AS/NZS 3000:2018 Clauses 4.3.2 to 4.3.5 to answer these multiple-choice questions:

* + 1. What is the maximum voltage for low-voltage installations covered by AS/NZS 3000:2018?
	1. 120 V
	2. 230 V
	3. 480 V
	4. 1000 V
		1. What is the minimum conductor size for fixed wiring installations in buildings with a demand of 100 A or less?
1. 2.5 mm²
2. 4 mm²
3. 6 mm²
4. 10 mm²
	* 1. What is the minimum insulation resistance required for conductors and cables at installation?
5. 0.5 MΩ
6. 1 MΩ
7. 2 MΩ
8. 5 MΩ
	* 1. What is the maximum distance between supports for a single-core cable with a copper conductor and a nominal cross-sectional area of 16 mm²?
9. 1.5 m
10. 2.0 m
11. 2.5 m
12. 3.0 m
	* 1. What is the maximum distance between supports for a multicore cable with a copper conductor and a nominal cross-sectional area of 4 mm²?
13. 0.6 m
14. 0.9 m
15. 1.2 m
16. 1.5 m