



WelTec

Te Whare Wānanga o te Awakairangi

EE3103 3

Resistance, resistivity and resistors workbook



Student name

ASSIGNMENT 2

EE3103 Resistance, resistivity and resistors assignment 2

1) Explain in your own words “tolerance”

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2) Explain the difference between “power rating” and “power dissipation”

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3) Why are colour codes used on resistors

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4) What does Brown, red, orange mean as coloured bands on a resistor

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5) What is the advantage of a 5 band resistor colour code system

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6) What is the minimum voltage applied for an insulation resistance test

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7) How does length affect insulation resistance

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8) Give 3 examples of what can cause a cable to fail an insulation resistance test?

- A)
- B)
- C)

9) With the aid of a graph explain how a VDR protects electrical equipment

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10) What is the effect on a cable of exceeding the **voltage** rating

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11) What is the effect on a cable of exceeding the **current** rating

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