

ENGINEERING DEPARTMENT

CANDIDATE RECORD

23.3 Assessment - Understand the selection and rating of circuit protection

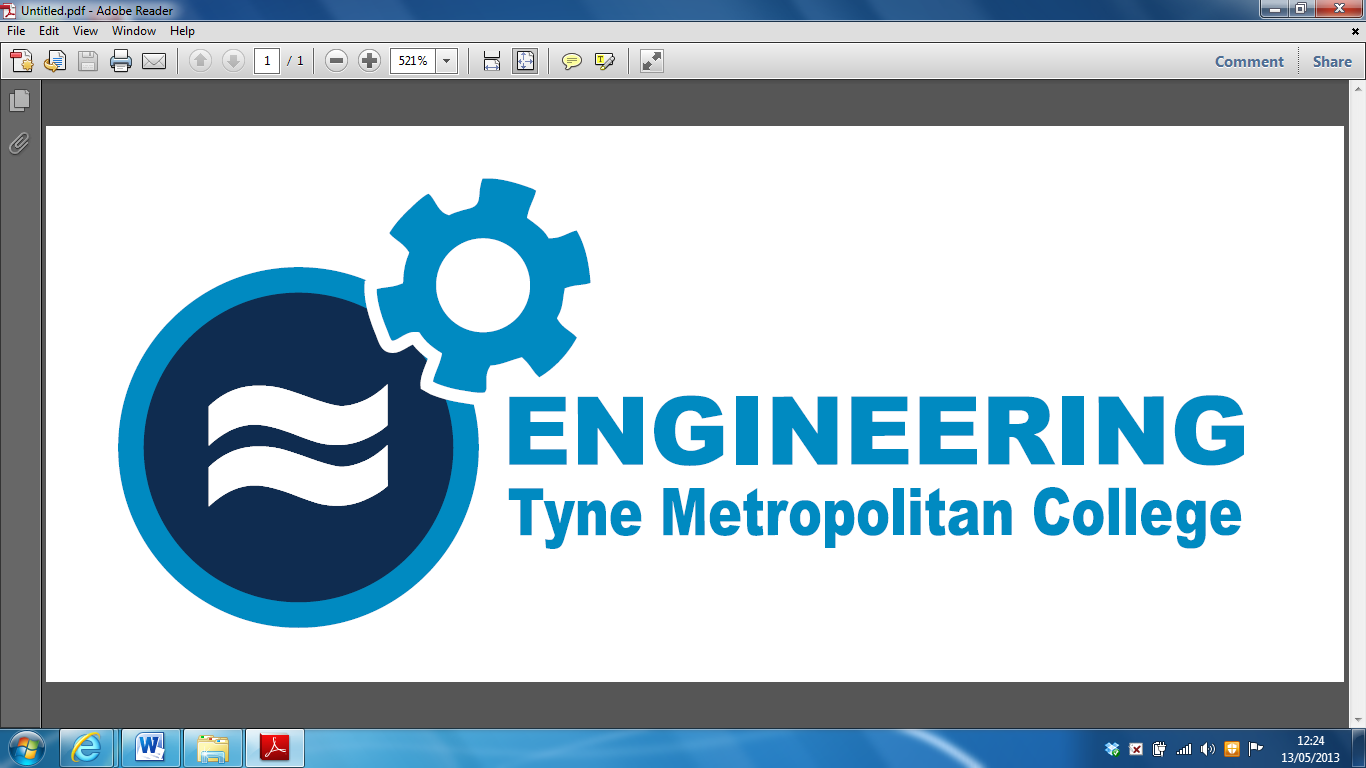
EAL First Certificate

Level 2

ELECTRICAL INSTALLATION METHODS, WIRING & CIRCUIT PROTECTION

Engineering Technology NETI/23

#### CANDIDATES NAME \_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Group\_\_\_\_



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| Q1 A shower is rated at 8000 Watts and connected to a 230 V supply, the current drawn is, | | | |
| a. | | 35Amps | |
| b. | | 3.5Amps | |
| c. | | 355 amps | |
| d. | | 35 Ohms | |
| **Q2** An imbalance between the line and neutral conductors is monitored by a, | | | |
| a. | | | Residual current device |
| b. | | | Residual circuit device |
| c. | | | Resistance circuit device |
| d. | | | Resistance current device |
| Q3 what do fuses protect against | | | |
| a. | | heating effect | |
| b. | | no-voltage | |
| c. | | eddy current | |
| d. | | over current | |
| Q4 What is the advantage of circuit breakers when compared to fuses is that, they can be easily, | | | |
| a. | | Disposed of | |
| b. | | Adjusted | |
| c. | | Reset when tripped | |
| d. | | Locked on | |
| Q5 A 3Kw/230V load will be protected by a fuse rated at, | | | |
| a. | 10A | | |
| b. | 23A | | |
| c. | 13A | | |
| d. | 12A | | |
| Q6 A consumer unit contains the circuit overcurrent protection and a Main, | | | |
| a. | | Energy meter | |
| b. | | Switch | |
| c. | | Thermostat | |
| d. | | Programmer | |
| Q7A Fuse or a circuit breaker detect which faults | | | |
| a. | | Overloads, short circuits and Earth faults | |
| b. | | Earth faults only | |
| c. | | Overloads, short circuits only | |
| d. | | Short circuits and Earth faults only. | |
| Q8 A fuse holder identified with a blue dot will have a current rating of | | | |
| a. | | 12A | |
| b. | | 16A | |
| c. | | 10A | |
| d. | | 15A | |

|  |  |
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| Q 9 Circuit breakers to BSEN 60898 rely upon the, | |
| a. | magnet effect to operate only |
| b. | magnetic or heating effect to operate |
| c. | capacitive effect to operate |
| d. | lighting effect to operate |
| Q10 Socket outlets in domestic dwellings have additional protection by using | |
| a. | a 300m RCD |
| b. | a 100mA RCBO |
| c. | a 500mA RCBo |
| d. | a 30mA RCD |

