

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 |

