

Circuit Protection

No 1	A protective device must relate to the characteristics of the circuit it is designed to protect and operate at suitable values of the following except?	Answer
a	Current	
b	Voltage	
c	Time	
d	Temperature	X

No 2	A single – pole fuse, switch or circuit-breaker must be connected in which one of the following conductors?	Answer
a	Protective	
b	Line	X
c	Neutral	
d	Reference	

No 3	The definition of an 'overload current' is which one of the following?	Answer
a	Overcurrent in an electrically sound circuit	X
b	Overcurrent in a circuit with an earth fault	
c	Electric motor starting current	
d	Overcurrent due to a short - circuit	

No 4	A protective device identified as Type D generally refers to which of the following devices?	Answer
a	Semi-enclosed fuses	
b	High rupturing capacity fuses	
c	Circuit - breakers	X
d	Cartridge fuses	

No 5	A protective device designed to protect against overload can be omitted in all of the following situations except?	Answer
a	A circuit supplying a domestic refrigerator	X
b	A circuit supplying fire extinguishing devices	
c	A circuit supplying medical equipment used for life support	
d	A circuit supplying a lifting electro-magnet	

No 6	The disconnection time for a circuit protective device can be calculated using the following information. Which item of information is not required in the calculation?	Answer
a	The circuit disconnection time requirement	
b	Voltage rating of the supply	X
c	The fault current causing operation of the device	
d	The cross-sectional-area of the circuit cable	

No 7	The actual current rating of a protective device indicates	Answer
a	The operating current of the device	
b	The load current of the device	
c	The current rating of the load protected	
d	The sustained current the device can carry	X