PHYSICS

Std. X   Marks--20

 Answer the following questions. (Qn1to 5
carries one score each)

1. 10 resistors of 5ohms each are connected in parallel. calculate the effective resistance
2.   Which material is used to make heating coil in heating appliances?
3.   what is the unit of electric power?
4.   which of the following should be connected parallel to a device in a circuit?
      (voltmeter ammeter galvanometer)
5.If 120 coloumb charge is flowing
      through a circuit in 2 minutes, what wil
      be   the current in the circuit?
6. which material is used as filament in filament bulb ? what are the properties to make it
suitable for being used what are the properties to make it suitable for being used as a
filamentas?   (5)
7.   **Match the following**

Device	Energy change	Effect of electricity
1. Electric bulb	a	lighting effect
2. electric heater	b	c
3. mixer grinder	electrical energy to mechanical energy	d
4. battery(while charging)	e	f

                        (6))

8. 0.2A   current flows through a resistor of resistance 100 ohm for 2 minute.
 a) Calculate the heat generated in the circuit.
  b) what will be the heat if the resistance is changed to 200ohm, being current and time remains
the same.   (4)