

Centre :

Test Series : 05 MARCH 2005 SERIES J

Module : 346017 ENERGY AND ELECTRICITY

**Candidate Number :****UCI :****Candidate Name :**

*For completion by the Examination Invigilator. Please fill this oval if the candidate is absent:*

## FOUNDATION TIER

▶ Instructions on how to complete this answer sheet are given on the question paper. Please make sure you follow them carefully. ◀

Questions ONE to FIVE: Choose **one** answer for each of the parts 1 to 4.

QUESTION ONE	1	2	3	4
conduction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
convection currents	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
loss of warm air	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
radiation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO	1	2	3	4
E	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
F	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
G	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
H	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION THREE	1	2	3	4
coal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
gas	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
uranium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
wood	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FOUR	1	2	3	4
generator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
steam	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
turbine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION FIVE	1	2	3	4
P	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
R	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
S	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Questions SIX and SEVEN: Choose **two** answers for each question.

QUESTION SIX	
J	<input type="radio"/>
K	<input type="radio"/>
L	<input type="radio"/>
M	<input type="radio"/>
N	<input type="radio"/>

QUESTION SEVEN	
the potential difference (voltage) across the 4 ohm resistor is 0.8 V	<input type="radio"/>
the potential difference (voltage) across the 6 ohm resistor is 2.4 V	<input type="radio"/>
the potential difference (voltage) across the battery is 2 V	<input type="radio"/>
the total current in the circuit is 0.2 A	<input type="radio"/>
the total resistance is 10 ohms	<input type="radio"/>

Questions EIGHT to TEN: Choose **one** answer for each of the parts 1 to 4.

QUESTION EIGHT	A	B	C	D
8.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION NINE	A	B	C	D
9.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TEN	A	B	C	D
10.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

# HIGHER TIER

Instructions on how to complete this answer sheet are given on the question paper. Please make sure you follow them carefully.

Questions ONE and TWO: Choose **one** answer for each of the parts 1 to 4.

## QUESTION ONE

1 2 3 4

P	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Q	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
R	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
S	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## QUESTION TWO

1 2 3

free electrons	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
ions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
particles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
waves	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Questions THREE and FOUR: Choose **two** answers for each question.

## QUESTION THREE

the potential difference (voltage) across the 4 ohm resistor is 0.8 V	<input type="radio"/>
the potential difference (voltage) across the 6 ohm resistor is 2.4 V	<input type="radio"/>
the potential difference (voltage) across the battery is 2 V	<input type="radio"/>
the total current in the circuit is 0.2 A	<input type="radio"/>
the total resistance is 10 ohms	<input type="radio"/>

## QUESTION FOUR

V1 has a reading of 1 V	<input type="radio"/>
V2 has a reading of 6 V	<input type="radio"/>
V3 has a reading of 4 V	<input type="radio"/>
V4 has a reading of 6 V	<input type="radio"/>
V5 has a reading of 3 V	<input type="radio"/>

Questions FIVE to TEN: Choose **one** answer for each of the parts 1 to 4.

## QUESTION FIVE

A B C D

5.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## QUESTION SIX

A B C D

6.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## QUESTION SEVEN

A B C D

7.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## QUESTION EIGHT

A B C D

8.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## QUESTION NINE

A B C D

9.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

## QUESTION TEN

A B C D

10.1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**For AQA Office Use Only**