

Centre :

Test Series : 04 NOVEMBER 2004 SERIES D

Module : 346009 ENERGY

**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

black	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
increase	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
reduce	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
white	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### QUESTION TWO

1 2 3 4

gravitational potential energy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
heat (thermal energy)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
movement (kinetic energy)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
sound energy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### QUESTION THREE

1 2 3 4

nuclear power station	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
oil-fired power station	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
tidal barrage	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
wind farm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### QUESTION FOUR

1 2 3 4

coal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
solar energy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
tides	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
water pumped to a high level	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### QUESTION FIVE

1 2 3 4

0.7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
252	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
360	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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

### QUESTION SIX

all energy which is transferred eventually ends up as heat	<input type="radio"/>
most of the wasted energy appears as electricity	<input type="radio"/>
some of the wasted energy is destroyed	<input type="radio"/>
the wasted energy becomes spread out	<input type="radio"/>
the wasted energy is always available for further useful transfers	<input type="radio"/>

### QUESTION SEVEN

the fan has a power of 0.05 kilowatts	<input type="radio"/>
the fan has a power of 0.5 kilojoules per second	<input type="radio"/>
the fan has a power of 5 kilowatts	<input type="radio"/>
the fan transfers electrical energy to movement (kinetic energy)	<input type="radio"/>
the fan transfers heat (thermal energy) to electrical energy	<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
0.7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
252	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
360	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

QUESTION TWO	1	2	3	4
conduction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
convection	<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"/>
vibration	<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 fan has a power of 0.05 kilowatts	<input type="radio"/>
the fan has a power of 0.5 kilojoules per second	<input type="radio"/>
the fan has a power of 5 kilowatts	<input type="radio"/>
the fan transfers electrical energy to movement (kinetic energy)	<input type="radio"/>
the fan transfers heat (thermal energy) to electrical energy	<input type="radio"/>

QUESTION FOUR	
costly safety features make a nuclear power station expensive to build	<input type="radio"/>
decommissioning a nuclear power station is expensive	<input type="radio"/>
supplies of uranium are running out	<input type="radio"/>
there have been many accidents at nuclear power stations	<input type="radio"/>
uranium is an expensive fuel	<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"/>

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