



### TOM NEWBY SCHOOL EXAMINATION

Subject	NS/TECH	Examiner	MS. M. MPESU
Date	21 NOVEMBER 2016	Total marks	50
Session	1	Duration	1 HOUR
Grade	4	Moderator	MRS. M. FOURIE
Special instructions/ Equipment	<u>INSTRUCTIONS:</u>		

This NS/Tech Exam has been compiled using notes and information contained in the Tom Newby School book. The marking memorandum has been compiled accordingly. While alternative responses will be given due acknowledgement, the official memorandum will be considered a priority document to ensure uniformity of marking.

Name: \_\_\_\_\_ Grade: 4 \_\_\_\_\_

#### Question 1:

Read the statements and answer True or False.

#### TRUE/FALSE

- a) Energy is the ability to do work.
- b) Light is not a form of energy.
- c) Movement causes sound.
- d) Vibrations are fast movements.
- e) The Earth has no features.
- f) The sun is round.
- g) The sun moves around the earth.
- h) A rocket needs energy to launch it.
- i) The moon has craters.
- j) The earth orbits around the moon.

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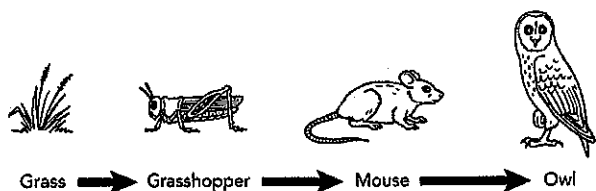
\_\_\_\_\_

(10)

#### Question 2:

Read the following statements, then circle the correct answer.

- A. Energy in our food comes from
  - a) plants
  - b) animals
  - c) the sun
  - d) humans
- B. The picture below shows a \_\_\_\_\_
  - a) Food chain
  - b) Food story
  - c) Food statistics
  - d) Food images



- C. Which of the following is not a form of energy?
- a) the sun
  - b) heat
  - c) light
  - d) movement
- D. Which of the following is an example of stored energy?
- a) an egg
  - b) electricity
  - c) input
  - d) movement
- E. A \_\_\_\_\_ is a wind instrument
- a) drum
  - b) trumpet
  - c) guitar
  - d) shaker
- F. The following are all parts of the technology process except \_\_\_\_\_
- a) Investigate
  - b) Design
  - c) Evaluate
  - d) Constraints
- G. How loud or soft a sound is, is called \_\_\_\_\_
- a) the pitch
  - b) medium
  - c) volume
  - d) vibration
- H. Which of the following instruments does a doctor use to check your heartbeat?
- a) thermometer
  - b) stethoscope
  - c) x-rays
  - d) heart muffs
- I. Soil comes from \_\_\_\_\_
- a) rocks
  - b) habitats
  - c) the shore
  - d) the beach
- J. The earth has \_\_\_\_\_ oceans
- a) 7
  - b) 2
  - c) 3
  - d) 5

**Question 3:**

Explain the meaning of the following words/terms.

A. Pitch

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B. Habitat

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C. Input

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D. Medium

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E. Design brief

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F. Orbit

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G. Phases

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H. Energy

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I. Fossil

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J. Temperature

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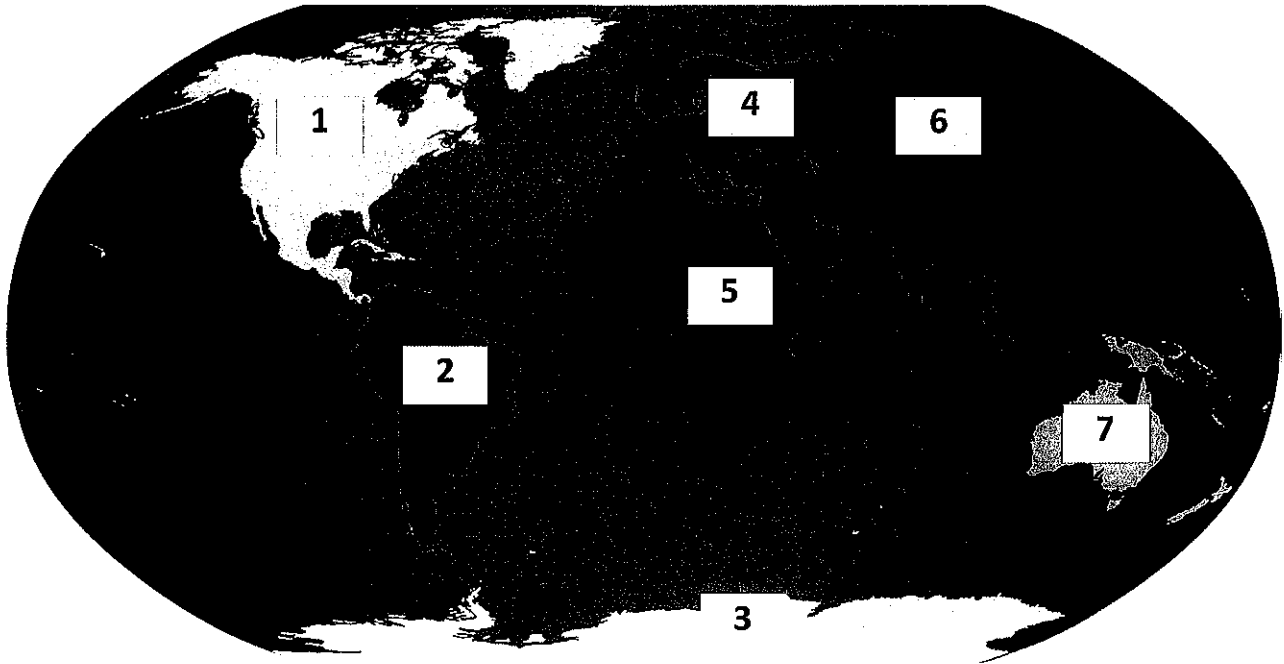
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(10)

**Question 4:**

Look carefully at the given globe of the Earth. Name the continents, using the given numbers 1-7.

Asia, North America, Africa, South America, Antarctica



- A. 1. \_\_\_\_\_  
 B. 2. \_\_\_\_\_  
 C. 3. \_\_\_\_\_  
 D. 4. \_\_\_\_\_  
 E. 5. \_\_\_\_\_  
 F. 6. \_\_\_\_\_  
 G. 7. \_\_\_\_\_

(7)

Name 3 oceans found on planet earth.

- H. \_\_\_\_\_  
 I. \_\_\_\_\_  
 J. \_\_\_\_\_

(3)

[10]

**Question 5:**

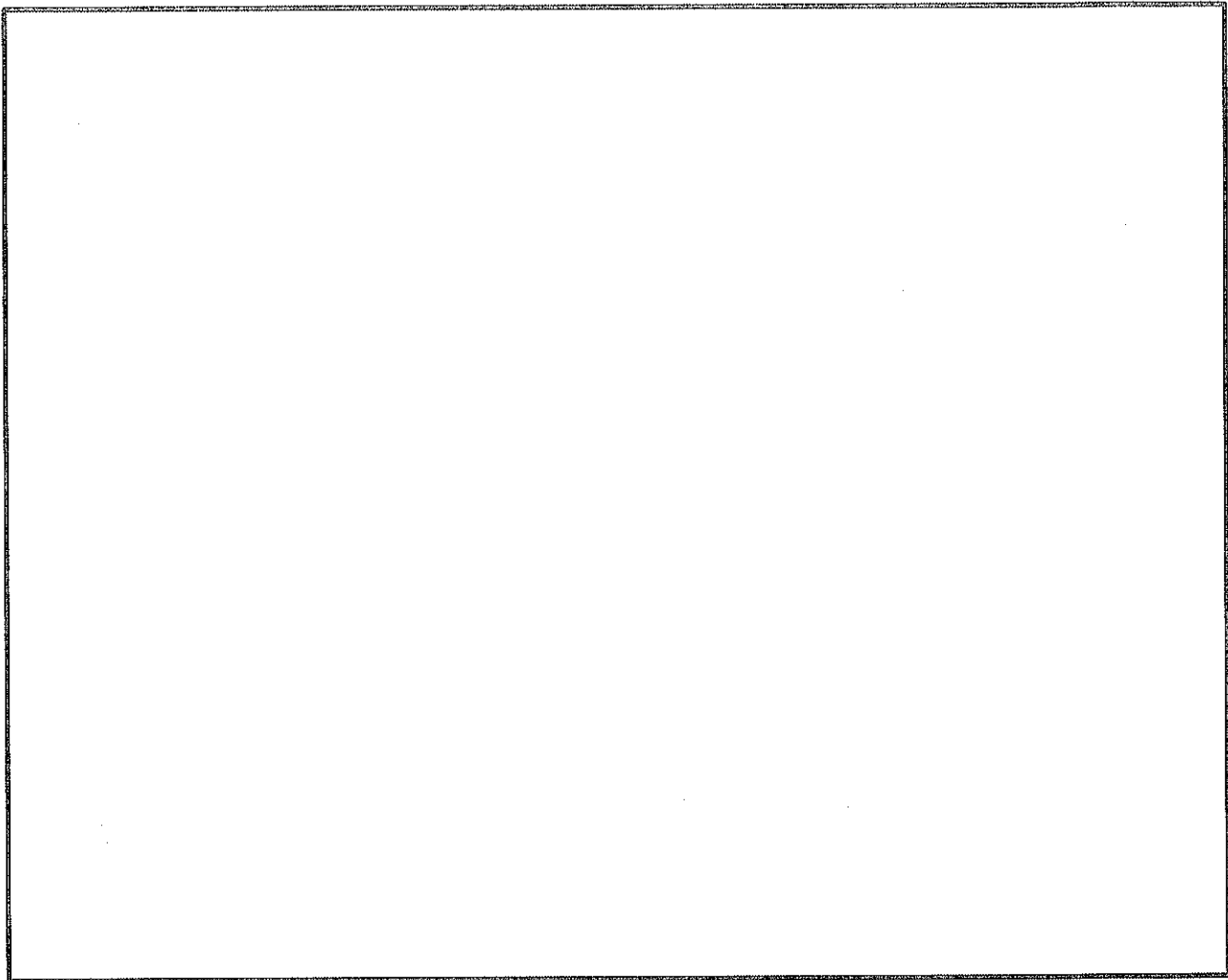
Complete the following sentences by filling in the missing words.

- A. The sun is important to Earth because it gives us \_\_\_\_\_  
 and \_\_\_\_\_. (1)
- B. There are \_\_\_\_\_ planets moving in orbits around the  
 sun? (1)
- C. The sun and planets are called the \_\_\_\_\_ system. (1)

- D. \_\_\_\_\_ pulls the sun and the planets towards each other. (1)
- E. Aeroplanes cannot fly in space because there is no \_\_\_\_\_  
in space. (1)
- F. \_\_\_\_\_ use stored energy to move in space. (1)
- G. The moon takes \_\_\_\_\_ days to orbit around the Earth. (1)
- H. The moon has \_\_\_\_\_ phases. (1)

**Question 6:**

Draw and arrange the Earth, the moon and the sun ranging from the biggest to the smallest. Label your drawing.



(2)

[10]

**TOTAL : 50**



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Name: \_\_\_\_\_ Grade: 4 \_\_\_\_\_

#### Question 1:

Read the statements and answer True or False.

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- h) A rocket needs energy to launch it.
- i) The moon has craters.
- j) The earth orbits around the moon.

#### TRUE/FALSE

T  
F  
T  
F  
T  
F  
F  
T  
T  
F

(10) ✓

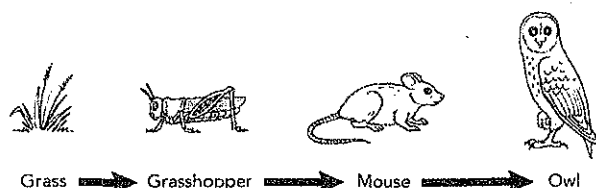
#### Question 2:

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- a) plants
  - b) animals
  - c) the sun**
  - d) humans

B. The picture below shows a \_\_\_\_\_

- a) Food chain**
- b) Food story
- c) Food statistics
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C. Which of the following is not a form of energy?

- a) the sun
- b) heat
- c) light
- d) movement

D. Which of the following is an example of stored energy?

- a) an egg
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E. A \_\_\_\_\_ is a wind instrument

- a) drum
- b) trumpet
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F. The following are all parts of the technology process except \_\_\_\_\_

- a) Investigate
- b) Design
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G. How loud or soft a sound is, is called \_\_\_\_\_

- a) the pitch
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J. The earth has \_\_\_\_\_ oceans

- a) 7
- b) 2
- c) 3
- d) 5

Question 3:

Explain the meaning of the following words/terms.

A. Pitch

How high or how low a sound is

B. Habitat

a natural home for a plant or animal

C. Input

Energy needed by a system to work

D. Medium

what sound travels through

E. Design brief

a plan of what you are going to make

F. Orbit

(planets)  
The path of the Earth around the sun

G. Phases

different stages

H. Energy

ability to do work.

I. Fossil

dead remains of plants and animals that died millions of years ago

J. Temperature

how hot or how cold something is

(10) ✓

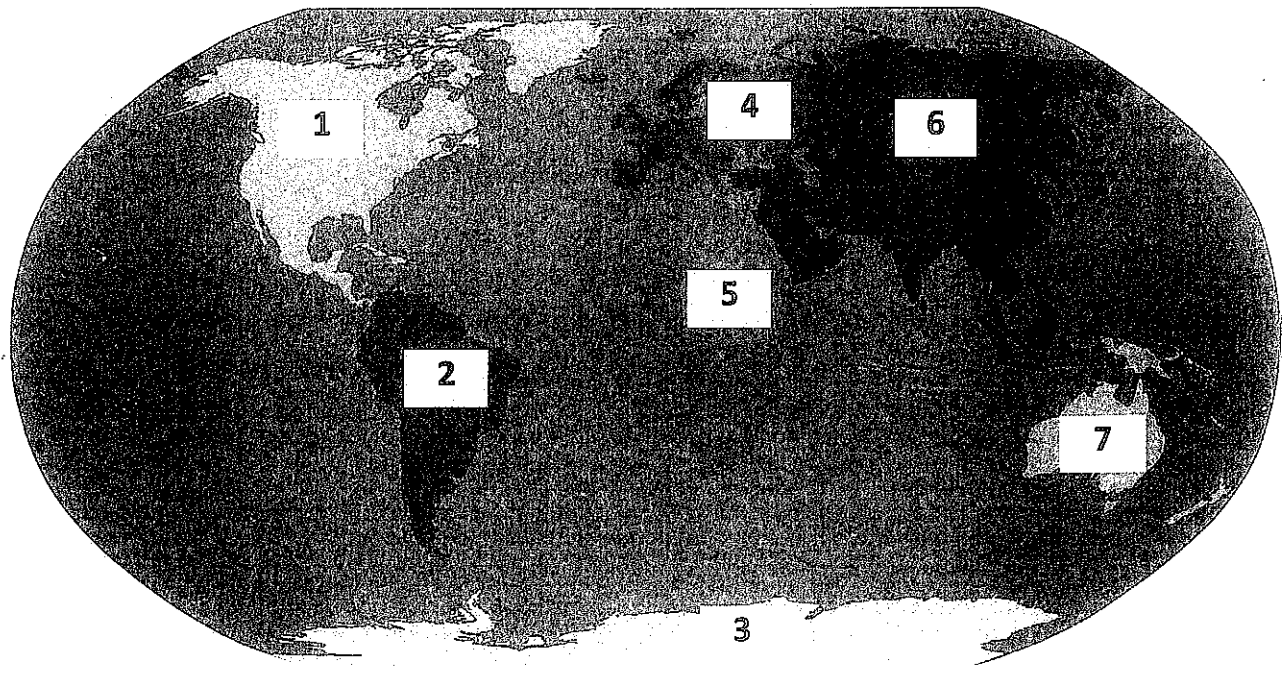


Question 4:

*globe*

Look carefully at the given globe of the Earth. Name the continents, using the given numbers 1-7. \*

Asia, North America, Africa, South America, Antarctica



- A. 1. North America
- B. 2. South America
- C. 3. Antarctica
- D. 4. Europe
- E. 5. Africa
- F. 6. Asia
- G. 7. Australia

(7)

Name the 3 oceans found on planet earth.

- H. Atlantic ocean
- I. Pacific ocean
- J. Indian ocean

(3)

Question 5:

Complete the following sentences, by filling in the missing words.

\* Add

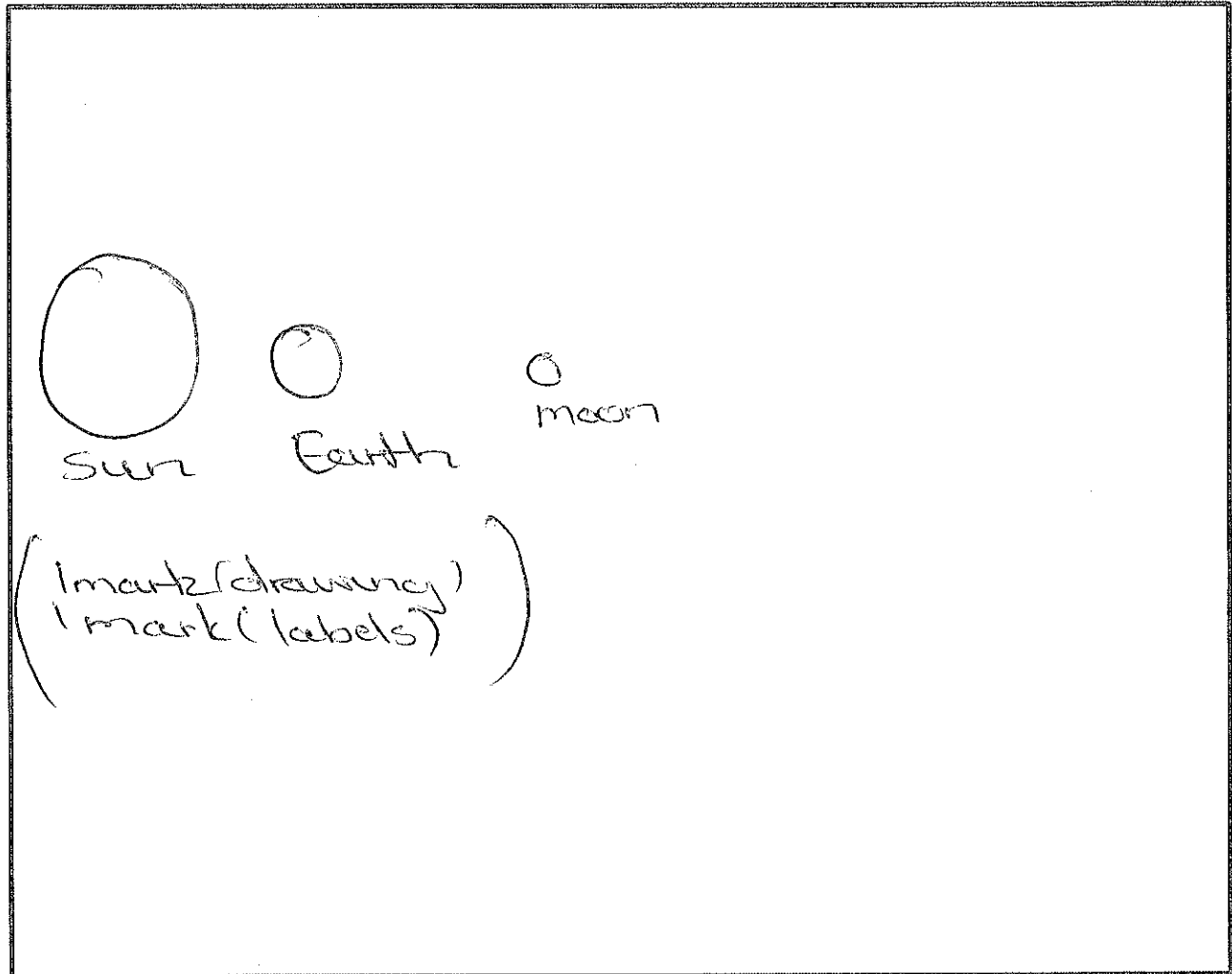
(10) ✓

- A. The sun is important to Earth because it gives us heat and light. (1)
- B. There are 8 planets moving in orbits around the sun? (1)
- C. The sun and planets are called the Solar system. (1)

- D. Gravity pulls the sun and the planets towards each other. (1)
- E. Aeroplanes cannot fly in space because there is no air in space. (1)
- F. Rockets use stored energy to move in space. (1)
- G. The moon takes 29 1/2 days to orbit around the Earth. (1)
- H. The moon has 8 phases. (1)

**Question 6:**

Draw and arrange the Earth, the moon and the sun ranging from the biggest to the smallest. Label your drawing.



TOTAL : 50

(2) ✓  
Total : (10)