



بسم الله الرحمن الرحيم  
**جامعة وادي النيل . كلية التربية**  
**قسم اللغة الانجليزية وآدابها**  
**امتحانات 2014 ـ 2015م**



رمز واسم المقرر: (0112) Basic English and study skills for Math E المستوى الأول (رض) الزمن: ساعتان

Name: ..... Index No. ....

**Answer to questions should be on this exam paper**

**Instructions : Answer all questions :**

**Question (1) :-**

**Read through the following passage and answer the questions below:**

**The Electromagnetic Spectrum ( الطيف الكهرومغناطيسي )**

The sun and other stars are always producing energy in the form of waves. For example, they produce waves of visible light. They also produce waves of invisible energy such as radio waves, X rays, Gamma rays and so on. These invisible waves travel through the space at the same speed as light,  $3.00 \times 10^8$  m/s.

All waves that can travel through space are known as electromagnetic waves. This kind of waves are transverse waves that can travel through a vacuum. Water waves and sound waves are not electromagnetic. They need a medium, some form of matter, in which to travel. Sound waves cannot travel through space. However, electromagnetic waves can travel where there is no matter, that is , through a vacuum.

Electromagnetic waves can also be produced on earth. And they can also travel through many kinds of matter. Through space and matter, electromagnetic waves travel as tiny packets or bundles of energy called photons.

**Comprehension Questions:**

1) How many paragraphs in this passage?

-----

2) What do the sun and stars produce?

-----

3) How many types of waves do the sun and stars produce?

-----

4) Is Alpha a form of electromagnetic waves?

-----

5) Mention a difference between sound waves and electromagnetic waves?

-----

6) Give the opposite of " visible "

-----

7) What do sounds waves and water waves need in order to travel?

-----

8) " visible " means: -----

9) In what form do electromagnetic waves travel through space and matter?

They travel in the form of -----

10) " tiny " means: -----

**Question Two:**

**Express the following mathematical symbols in words:**

$\infty$  : ----- % : -----  $\leq$  : -----

$\equiv$  : -----  $\neq$  : -----  $\int$  : -----

$\sqrt{\quad}$  : -----  $\alpha$  : -----  $\notin$  : -----

$\perp$  : ----- .

**Question Three:**

**Express the following fractions in words:**

$\frac{3}{4}$  : -----

3.01: -----

$\frac{71}{22}$  : -----

0.01: -----

$\frac{71}{49}$  : -----

**Question Four:**

**Define the following mathematical terms:**

( 1 ) trigonometry: -----

( 2 ) algebra: -----

( 3 ) triangle: -----

( 4 ) integral: -----

( 5 ) cosine: -----

**Question Five:**

**Put the verbs between brackets into their correct forms:**

1- Line AB ( intersect ) line DC. ( ----- )

2- She doesn't ( has ) a book. ( ----- )

3- She always ( write ) notes on physics last semester. ( ----- )

4- She ( be ) born in 1995. ( ----- )

5- Water ( freeze ) at C<sup>0</sup>. ( ----- )

**Question Six:**

**Put the following sentences or phrases in their correct order:**

1- Hassan skillful is Maths at.  
-----

2- fraction vulgar.  
-----

3- to proportional is.  
-----

4- Maths science is of the numbers and shapes.  
-----

5- analysis numerical.  
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رمز واسم المقرر: (0112) Basic English and Study Skill 1 for Arts E المستوى الأول (آداب) الزمن: ساعتان

Name: ..... Index No. ....

**Answer to questions should be on this exam paper**

**Instructions : Answer all questions :**

**Question (1) :-**

**( A ) Read the following passage carefully and then answer the questions below:**

Asma works in a large office. Work starts at 9. She often gets there late. She is five minutes late today. Two typists are speaking about her:

" Does the manager know she often comes late? "

" No, he doesn't. He often comes late too."

**( i ) 1- Does Asma work in a large office?**

-----

2- What are the two typists doing?

-----

**( ii ) Make questions using the words given:**

1- Where / Asma?

-----

2- When / start ?

3- -----

4- The manager / know ?

-----

**( B ) Illustrate for the following elements:**

1- S V: -----

2- S V A: -----

3- S V C : -----

4- S V O : -----

5- S V ? : -----

**Question Two :**

**Encircle the letter of the best answer:**

1- Are you a student? Yes -----

A- I am

B- I do

C- You are

2- He ----- for Kostie last night.

A- left

B- had left

C- was leaving

3-Don't make noise! The baby -----.

A- is sleeping

B- slept

C- sleeps

4- Khalid ----- in Atbara since 2010.

- A-has lived                      B- is living                      C- lives
- 5- Have you ----- the homework?  
A- done                      B- make                      C- did
- 6- How ----- hours do they work?  
A- many                      B- much                      C- some of
- 7- They ----- breakfast.  
A- have had                      B- has had                      C- had have
- 8- He plays tennis ----- .  
A- well                      B- good                      C- bad
- 9- How ----- does it cost?  
A- much                      B- many                      C- some
- 10- If Ali ----- hard, he will succeed.  
A- works                      B- worked                      C- had worked
- 11- I ----- English fluently.  
A- speaks                      B- speak                      C- has spoken
- 12- Rofiada ----- just now.  
A- has left                      B- left                      C- had left
- 13- Today is ----- than yesterday.  
A- more colder                      B- colder                      C- cold
- 14- ----- she go to the party last week?  
A- Had                      B- Did                      C- Was
- 15- Ali never ----- late.  
A- came                      B- comes                      C- come
- 16- While I was reading, the telephone rang.  
Which action took short time?  
A- reading                      B- ringing                      C- I don't know
- 17- When Othman reached the airport, the plane had taken off. Did he catch the plane?  
A- I don't know                      B- No.                      C- of course Yes
- 18- Ahmed went home. Where is he now?  
A- at home                      B- I don't know                      C- at the school
- 19- Adam often drinks coffee. Is he drinking coffee now?  
A- of course Yes                      B- not necessary                      C- Yes
- 20- Khalid always sells fruits in the market. Will he come to the market again?  
A- of course No                      B- Yes                      C- I don't know

**Question Three:**

**( A ) : Change the following sentences into;**

**( a ) negative**

**( b ) interrogative**

1- Nusiaba served the tea.

( a ) -----

( b ) -----

Tarig did the homework.

( a ) -----

( b ) -----

2- I live in Kassala.

( a ) -----

( b ) -----

3- He has drunk coffee.

( a ) -----

( b ) -----

**( B ): Change into passive:**

1- She served the tea.

-----

2- Sudan produces oil and cotton.

-----

3- Where do we find gold?

-----

**Question Four:**

**Illustrate for the following situational dialogues:**

A- Asking the way.

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B- Finding a job.

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**Good Luck**

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رمز واسم المقرر: (0112) Basic English and Study Skill 1 for Bio. E المستوى الأول (علوم) الزمن: ساعتان

Name: ..... Index No. ....

**Answer to questions should be on this exam paper**

**Instructions : Answer all questions :**

**Question (1) :-**

**Read the following passage and then answer the questions given below:**

The knowledge of science has been developed a lot now a days rather than in the past. The reason for that, there are many scholars to do researches in the different fields of knowledge of science. There are two main branches of science, physical science and biological science. Physical science is called the science of non – living things while the living beings are included in Biology. The term Biology comes from two Greek words ( bio means life and logos means knowledge ). Aristotle is regarded as father of biology. We find two types of life in nature, one is plant while the other is animal. Accordingly, Biology has been divided into two branches, Botany and Zoology. Botany deals with the characteristics of plants, but Zoology deals with the animals. Theophrastus ( 370 – 285 B.C ) regarded as the father of Botany and he wrote a book " On the History of Plants ". Aristotle made lots of researches on animals and wrote a book named *it* " Historia animium ". There are many principal branches of Biology such as Morphology which deals with the external and internal structures of organism. Cytology deals with the structure and function of cell, but Histology deals with the tissues.

**Answer the following questions:**

1- What has been developed now a days?

-----

2- What is the reason of the development in the knowledge of science?

-----

3- Where does the term Biology come from?

-----

4- What researches did Aristotle make about?

-----

5- What does Cytology deal with?

-----

**Make ( T ) for True or ( F ) for False sentences:**

1- Living being are included in Biology. ( )

2- Bio means life. ( )

3- The science on Non livings is called Taxonomy. ( )

4- There are many principal branches of Biology. ( )

5- The underlined word it refers to animals. ( )

**Encircle the best answer:**

1- The main branches of science are:

a- physical            b- Botany            c- Biological            d- a and c

2- Zoology concerns with :

a- animals            b- plants            c- tissues            d- cells

3- " on the History of Plants " a book about :

a- Theophrastus    b- Botany            c- Aristotle            d- organisms

4- The study of external and internal structures of organisms is :

a- Zoology            b- Morphology        c- Histology            d- Botany

5- The father of Biology is :

a- Theophrastus    b- Aristotle            c- William            d- Carolus

**Question Two:**

**Put the verbs in their correct forms:**

1- There ----- ( be ) types of blood vessels. Blood ----- ( be ) contained in tubes. It ----- ( flow ) through them.

The blood ----- ( carry ) materials to the rest of the body.

2- The heart ----- ( have ) four chambers. They ----- ( receive ) and ----- ( pump ) blood to and from the body.

3- Arteries ----- ( not/contain ) valves. They ----- ( carry ) blood away from the heart. They ----- ( be ) thick.

**Question Three:**

**Put a circle round the letter of the best answer:**

1- ----- occupies space, has mass and can be weight. It is the ----

a- Matter            b- Chemistry            c- Acid            d- Alkali

2- The circulatory system in the human is -----

a- open            b- closed            c- easy            d- wide

3- The study and practice of making basic materials is called -----

a- Biology            b- Physics            c- Chemistry            d- Mathematics

4- Substance that releases hydrogen ions ( H ) in water. It is -----

a- electron            b- acid            c- element            d- base

5- Fight foreign invaders and infections. They are -----

a- RBC'S            b- WBC'S            c- Veins            d- Arteries

**Question Four:**

**Fill in the gabs with one word from the list:**

*plasma - substances - matter - Veins - solutions - Hemoglobin  
platelets - liquid - Physiology - base*

- 1- The ----- is chemical opposite of an acid.
- 2- Homogeneous basic materials can be divided into ----- and -----
- 3- The states of matter are solid, ----- and gas.
- 4- The function of ----- is to help in blood clotting process.
- 5- A particular kind of ----- ( air ) is called material.
- 6- The liquid part of the blood is ----- .
- 7- ----- include all the activities of living things.
- 8- ----- return blood to the heart.
- 9- ----- is a protein found in the blood which is made of iron.

**Question Five:**

**Mark ( T ) For True or ( F ) For False statements:**

- 1- Ecology is the study of effects of environment. ( )
- 2- A solution is a combination of substances in varying proportion. ( )
- 3- A solid has its own shape and volume. ( )
- 4- Blood is a fluid found in the circulatory system of human. ( )
- 5- Capillaries take oxygen only between the cells and the blood. ( )
- 6- Solid materials differ from one another in shape and size. ( )
- 7- Hemoglobin transports carbon dioxide only from the cells. ( )
- 8- Steel is a chemical matter. ( )
- 9- Gas takes up the vessel's volume and shape. ( )
- 10- Blood helps controlling and regulating body temperature. ( )

**Question Six:**

**Match ( A ) with ( B ) in ( C ). Put the letter only:**

( A )	( B )	( C )
1- steel	a- Three proteins	1-
2- WBC'S	b- Small veins	2-
3- plasma	c- Bone marrow	3-
4- venules	d- Matter	4-
5- hemoglobin	e- Have nucleus	5-

*All the best*



