

(December 22, 2012, Saturday)

**GRADE**

**10**

**GROUP A**

**2012-2013**

# **FIRST GRT**

**General Revision Test**

## **Instructions**

- 1. You must mark OPTIC FORM completely, according to the following rules:**
  - a) **NAME SURNAME, SCHOOL NAME, STUDENT NO, SCHOOL CODE, and STUDENT NUMBER:** These regions are pre-coded for you.
  - b) **BOOKLET:** Mark the type of your booklet here.
  - c) **GENDER:** Mark your gender here, F for FEMALE and M for MALE.
  - d) **FIRST SECTION** includes following subjects:  
Questions from 1 to 15 are English.  
Questions from 16 to 30 are Turkish.
  - e) **SECOND SECTION** includes following subjects:  
Questions from 1 to 15 are Physics.  
Questions from 16 to 30 are Chemistry.  
Questions from 31 to 45 are Biology.
- 2. Mark your answers as shown in SAMPLE CODING.**
- 3. Use pencil and soft eraser.**
- 4. Time allowed 150 minutes.**
- 5. Three incorrect answers will cancel out one correct answer, in order to make a more precise ordering among all participants. But your mark for school report will be calculated according to the number of your correct answers only.**

1. One of the sentences below is grammatically wrong. Choose the wrong sentence.



- A) We are believing in freedom of speech.
- B) The match starts at 8.30
- C) My brother is always leaving his dirty socks on the floor
- D) Just a moment. My phone is ringing.

2. Choose the best option to complete the gaps.

Yesterday I got home earlier than usual. I ..... down and ..... on the TV. Then I cooked dinner for myself. While I ..... dinner, the phone .....

- A) was sitting / turning / had / ringed
- B) sat / turned / was having / rang
- C) was sitting / turning / was having / was ringing
- D) sat / turned / had /rang

3. Choose the correct option to complete the gaps.

I forgot ..... "Happy Bithday" to Sarah so I stopped the car ..... flower for her.

- A) saying / buying
- B) to say / to buy
- C) say / to buy
- D) to say / buying

4. Choose the correct choice.

A salary is the money ..... you earn in your job.

- A) where
- B) when
- C) which
- D) who

5. Choose the best option to complete the gaps.

He ..... his friends every day, but now he ..... them only at the weekends.

- A) used to see / sees
- B) use to / see
- C) didn't use to see / used to see
- D) sees / doesn't see

6. Choose the correct matching.

1 take off	a) distribute
2 tell off	b) speak angrily to
3 turn down	c) reject
4 give out	d) remove

- A) 1d / 2b /3c / 4a
- B) 1b / 2c /3d / 4a
- C) 1d / 2c /3a / 4b
- D) 1c / 2b /3a / 4d

7. Choose the correct word to complete the gap.

Definition: The people who live in a place .

We visit ..... and explain how to prevent fires in the first place.

- A) citizens
- B) residents
- C) offenders
- D) outgoings

8. Choose the best adjective to describe each person's feeling.

I- We lost the match- the other team scored in the last minute. ....

II- It was a difficult and important exam- and I passed it. ....

- A) furious – homesick
- B) pleased – confused
- C) guilty – amused
- D) disappointed - relieved

9. Which of the expression below is *not* a Formal expression.

- A) Dear Sir or Madam
- B) Yours faithfully
- C) That's all my news for now.
- D) I look forward to hearing from you soon.

10. We use suffixes such as –ment, -ance, -ion to form nouns from the verbs. For example; Harass - harassment.

Which of the following verb needs a different suffix to form a noun.

- A) develop
- B) treat
- C) attach
- D) assist

Answer the questions 11 and 12 according to your course book Aim High 3.

11. Which job is defined as the worst job in history.

- A) plumbers
- B) chimney sweep
- C) surgeon
- D) nanny

12. Choose *the wrong* option about CCTV cameras.

- A) They were first used in Britain
- B) They were first developed for the security of the banks.
- C) CCTV cameras only watch criminals.
- D) There are almost 4 million cameras all around Britain.

Read the text below and answer the questions 13 to 15 according to the text.

Have you ever heard someone use the phrase “once in a blue moon?” People use this expression to describe something that they do not do very often. For example, someone might say that he tries to avoid eating sweets because they are unhealthy, but will eat chocolate “once in a blue moon.” Or someone who does not usually like to go to the beach might say “I visit the shore once in a blue moon.” While many people use this phrase, not everyone knows the meaning behind it.

The first thing to know is that the moon itself is never actually blue. This is just an expression. The phrase “blue moon” actually has to do with the shape of the moon, not the color.

As the moon travels around the earth, it appears to change shape. We associate certain names with certain shapes of the moon. For example, when we can see a small part of the moon, it is called a crescent moon. A crescent is a shape that looks like the tip of a fingernail. When we cannot see the moon at all, it is called a new moon. When we can see the entire moon, it is called a full moon. Usually, there is only one full moon every month. Sometimes, however, there will be two full moons in one month. When this happens, the second full moon is called a “blue moon.”

Over the next 20 years, there will only be 15 blue moons. As you can see, a blue moon is a very rare event. This fact has led people to use the expression “once in a blue moon” to describe other very rare events in their lives.

13. Which of the following would be a good example of someone doing something “once in a blue moon”?

- A) Mary likes to go to the mountains every weekend. Mary goes to the mountains once in a blue moon.
- B) Tom rarely remembers to take out the trash. Tom takes out the trash once in a blue moon.
- C) Cindy hates to wash the dishes. Nevertheless, she does it every day. Cindy washes the dishes once in a blue moon.
- D) Ming sometimes forgets to do his homework. Ming forgets to do his homework once in a blue moon.

14. When does a blue moon happen in nature?

- A) When there are two full moons in one month
- B) When the moon has a blue color
- C) When we cannot see the moon at all
- D) When we can only see a small part of the moon

15. As used in the final paragraph, which is the best antonym for rare?

- A) common
- B) strange
- C) colorful
- D) infrequent



25. “Kar ..... başladı.”

Yukarıdaki boşluğa aşağıdaki kelimelerden hangisi gelebilir?

- A) almaya                      B) yağmaya  
C) dolmaya                     D) esmeye

26. Sinemaya gid..... öğrenciler adını yazdırırsın.

Yukarıdaki boşluğa hangisi getirilmelidir?

- A) –mez                        B) –er  
C) –ecek                       D) –esi

27. Yükseklik fobisi olan bir insan aşağıdakilerin hangisinden korkar?

- A) Örümcek                    B) Gökdelen  
C) Hız                            D) Hayalet

28. Aşağıdaki fobilerden hangisi hayvanlarla ilgili değildir ?

- A) Kedi fobisi                    B) Böcek fobisi  
C) Gölge fobisi                 D) Fare fobisi

29. “Dedem öl..... yıllar oldu.”

Yukarıdaki boşluğa hangisi getirilmelidir?

- A) – eli                            B) – ken  
C) – nca                           D) – ıp

30. “.....Sema Hastanesi’nde çalışıyor.

Yukarıdaki boşluğa hangisi getirilemez?

- A) Doktor                        B) Hemşire  
C) Cerrah                         D) Hasta

**Not:** Bu soruları orta hazırlıktan gelen öğrenciler cevaplayacaktır.

Ali'nin annesine ölüm, bir .....gelir gibi geldi.  
Her sabah yaptığı gibi yorganı .....kafasına çekti.

**16. Yukarıdaki boşlukları uygun kelimelerle tamamlayınız.**

- A) dolayı / süslemişti  
B) beri / girmişti  
C) yüzünden / kaplamıştı  
D) misafir / büsbütün

**17. "Ali ağır ağır yürüdü." cümlesindeki altı çizili kelimenin yerine aşağıdakilerden hangisi gelir?**

- A) yavaş yavaş                      B) dikkatlice  
C) düşünceli                         D) ağlayarak

**18. "Saymak" kelimesi aşağıdaki cümlelerin hangisinde "hesaba katmak, dikkate almak" anlamında kullanılmıştır?**

- A) Depodaki malları saydınız mı?  
B) Ne! Daha önce verdiklerimi saymıyor musun?  
C) Kimse kendisini kanundan üstün sayamaz!  
D) Annesi, babasını pek sayardı.

Ali bütün arzusuna rağmen o gün ağlayamadı.  
Yüz yaşına girmiş kadar ihiyarlamak istedi.

**19. Altı çizili kelimelerin anlamı aşağıdakilerden hangisidir?**

- A) ümidine / yaşamak  
B) korkusuna / beklemek  
C) sabrına / görmek  
D) isteğine / yaşlanmak

**20. "Kopmak" kelimesi aşağıdakilerin hangisinde "Çantamın sapı koptu." cümlesinden farklı anlamda kullanılmıştır?**

- A) Çiçeğin yaprakları birer birer kopuyor.  
B) Karı koca arasında yine fırtınalar kopuyor.  
C) Trafik kazasında sağ bacağı kopmuştu.  
D) Gömleğimi giyerken düğmem koptu.

**21. Aşağıdakilerin hangisinde "ancak" sözcüğü "Bu toplantıya katılmak isterim ancak bugün değil." cümlesindekiyle aynı anlamda kullanılmıştır?**

- A) Bu kadar işi ancak üç günde bitirdim.  
B) Şimdi yola çıkarsan ancak akşam eve ulaşırsın.  
C) Sinemaya gidebilirsiniz ancak geç kalmayın.  
D) Senin verdiğin parayla ancak ekme aldım.

**22. Roman ve hikaye ile ilgili olarak aşağıdaki bilgilerden hangisi yanlıştır?**

- A) Hikayede olaylar bazen gerçek hayattan alınır.  
B) Hikaye romandan daha kısadır.  
C) Romanda daha fazla kişi ve karakter vardır.  
D) Romanda sadece gerçek olaylar anlatılır.

1. çoğalır
2. paylaşıldıkça
3. acılar
4. sevinçler
5. azalır
6. paylaşıldıkça

23. Yukarıdaki sözcüklerden anlamlı bir cümle oluşturulmak istenirse sıralama nasıl olur?

- A) 4-2-1-3-6-5                      B) 2-1-3-6-5-4  
C) 5-6-4--1-2-3                    D) 3-2-1-4-6-5

24. “Yarın” kelimesi, aşağıdaki cümlelerden hangisinde diğerlerinden farklı anlamda kullanılmıştır?

- A) Tören yarın başlayacak.  
B) Size yarından önce gelemez.  
C) Seyahatine yarın çıkacak.  
D) Her insan yarınını düşünmelidir.

25. Aşağıdaki cümleyi tamamlayınız.

“..... güzel resim yapıyor ki bir görmelisiniz.”

- A) zaten                                  B) o kadar  
C) sanki                                  D) sanırım

1. ama
2. vardı
3. yapılacak işler
4. canı hiçbirini
5. yapmak istemiyordu

26. Yukarıdaki sözlerin anlamlı bir cümle oluşturması için sıralama aşağıdakilerden hangisi olmalıdır?

- A) 3, 1, 5, 2, 4                      B) 4, 2,1, 3, 4  
C) 3, 2, 1, 4, 5                      D) 4, 2, 3, 1, 5

27. Aşağıdaki cümlelerin hangisinde zıt anlamlı iki sözcük birlikte kullanılmıştır?

- A) Uzun ama rahat bir yolculuk yaptık.  
B) Yaşlı adam gençlere öğütler veriyordu.  
C) O, çalışkan ve başarılı bir öğrenciydi.  
D) Çok zevkli ama yorucu bir çalışmaydı.

28. Aşağıdakilerin hangisinde “Çok güç bir işi yapmamı istiyorlar” cümlesindeki “güç” kelimesiyle aynı anlamda bir kelime vardır?

- A) Çocuklar çok keyifli bir oyun oynuyorlar.  
B) Kuvvetli olmak için her gün spor yapıyordu.  
C) Bu zor çalışmayı yarına kadar bitirmem gerekiyor.  
D) Hızlı çalışırsanız bu bina yakında biter.

29. Masallarla ilgili aşağıda verilen bilgilerden hangisi yanlıştır?

- A) Masallarda gerçekler anlatılır.  
B) Masallarda çocuklar için dersler vardır.  
C) Bazı masallarda cin, dev,ejderha gibi varlıklar vardır.  
D) Masalları kimin yazdığı çoğu zaman belli değildir.

30. Aşağıdaki cümlelerin hangisinde “ihtimal” anlamı vardır?

- A) Onun şehir dışında güzel bir evi varmış.  
B) İsteyen herkes düşünümüze gelebilir.  
C) Bu bina on yıl önce yapılmış.  
D) Saat sekiz! Maç bitmiş olabilir.



1. We are surrounded by the principles of physics in our everyday lives.

Which one of the following situations is in a different area of physics?

- A) Temperature      B) Heat
- C) Magnetism        D) Cooking

2. A rigid body is 'a body that preserves its shape when forces are applied on it'.

Which one of the followings has the most rigidity?

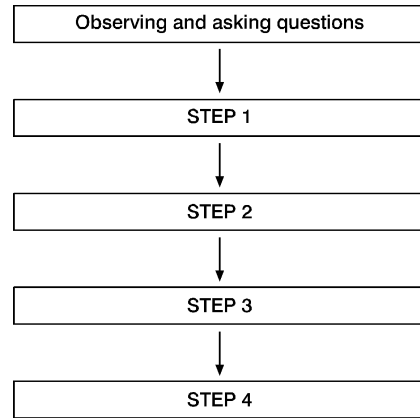
- A) A rock                      B) A spring



- C) A Glass                      D) A plastic



3. A student thinks that plants will grow faster in magnetic field region. So he makes a plan and wants to search his thought according to the steps of scientific method.



According to the figure given above, which one of the scientific steps should be written in step 2?

- A) Making hypotheses
- B) Testing hypotheses
- C) Analyzing data
- D) Deduce Results

4. The distance between the Earth and the Moon is measured as 383403 km by the scientists.

What would be the correct scientific notation of this distance in meters?

- A) 383403000 m              B) 383.403x10<sup>3</sup> m
- C) 38.3x10<sup>7</sup> m                D) 3.8x10<sup>8</sup> m

5. There are some numbers given below and their number of significant figures written across them.

Which one of the following significant figures of the numbers is wrong?

- A) 300000000 → 1  
 B) 25.030 → 3  
 C) 0.006070 → 4  
 D) 1004 → 4

6. A living cell dimension is approximately 462 μm in diameter.

What would be the dimension of this cell in cm?

- A)  $462 \times 10^{-2}$  cm      B)  $462 \times 10^{-6}$  cm  
 C)  $4.62 \times 10^{-6}$  cm      D)  $4.62 \times 10^{-2}$  cm

7. **Accuracy** is a description of how close a measurement is to the correct or accepted value of the quantity measured.

**Precision** is the degree of exactness of a measurement.



What would be said about the accuracy and precision of results in figure above?

- A) Accurate, precise  
 B) Not accurate, precise  
 C) Accurate, not precise  
 D) Not accurate, not precise

8. A student is preparing a list of an appropriate SI base unit for some measurements.

Which one of the following interpretations is wrong for this measurement?

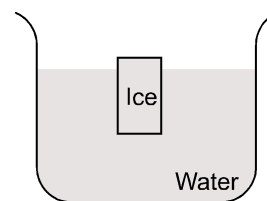
- A) The mass of a sports car in **meter**  
 B) The diameter of a large pizza in **meter**.  
 C) The length of a soccer field in **meter**  
 D) A semester at his school in **seconds**

9. Matter is normally classified as being in one of three states –solid, liquid or gaseous.

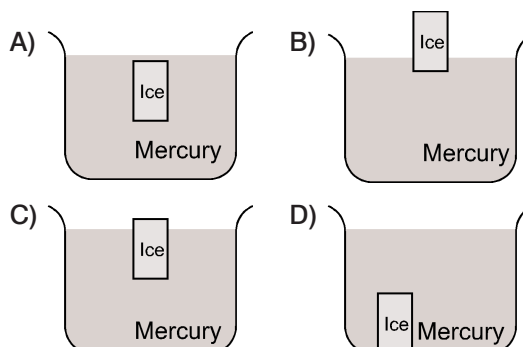
Which one of the followings is not correct for solid state of matter?

- A) Solids have definite shapes.  
 B) The particles of solids vibrate around their equilibrium points.  
 C) All rigid bodies are solids.  
 D) Solid bodies are fluid.

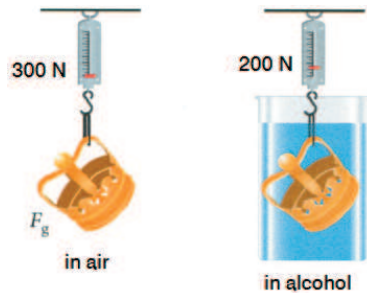
10. An ice cube is floating in a glass of water as in figure.



What happens to the last position of the ice cube when it is released into the mercury that is denser than the water?



11. A sample of an unknown material weighs 300 N in air and 200 N when submerged in an alcohol with a density of  $0.7 \times 10^{-3} \text{ kg/m}^3$ .



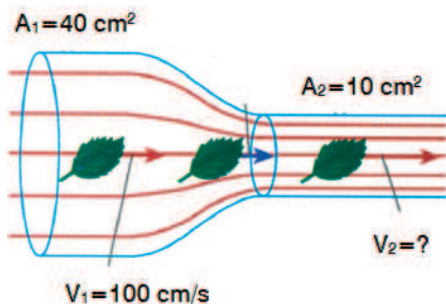
What is the density of the material?

- A)  $2.1 \times 10^{-3} \text{ kg/m}^3$       B)  $1.4 \times 10^{-3} \text{ kg/m}^3$   
 C)  $1.0 \times 10^{-3} \text{ kg/m}^3$       D)  $0.3 \times 10^{-3} \text{ kg/m}^3$
12. Pressure varies with depth and density in a fluid.

What will be the liquid pressure at an ocean depth of 10 km? ( $g=10 \text{ N/kg}$ ;  $\rho_{\text{water}}=1 \times 10^3 \text{ kg/m}^3$ )

- A) 10 Pa                      B)  $10^4 \text{ Pa}$   
 C)  $10^7 \text{ Pa}$                 D)  $10^8 \text{ Pa}$

13. A liquid flows through a horizontal sections of a pipe joined end to end. In the first section, the cross sectional area is  $40 \text{ cm}^2$ , the flow speed is  $100 \text{ cm/s}$ . In the second section, the cross sectional area is  $10 \text{ cm}^2$ .

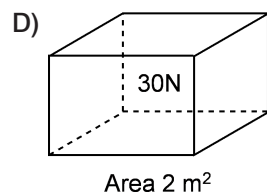
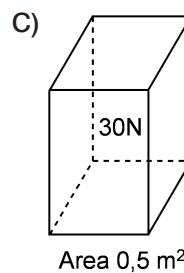
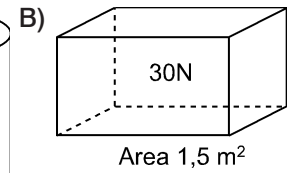
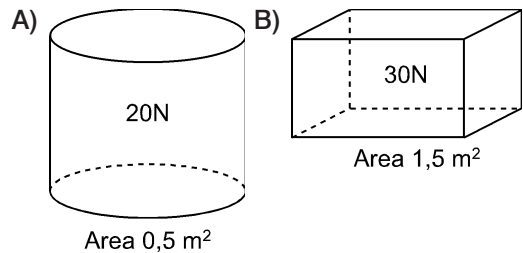


What would be the flow speed in the smaller section?

- A) 800 cm/s                B) 400 cm/s  
 C) 200 cm/s                D) 100 cm/s

14. Pressure is the magnitude of the force on a surface per unit area.

Which of the following objects exerts the most pressure while resting on a floor?



15. What would be the result of following calculation according to the rules for significant figures?

$$\begin{array}{r} 15.3 \\ \times 1.1 \\ \hline ? \end{array}$$

- A) 17                              B) 16.8  
 C) 16.4                          D) 15.4

16. Chemistry is a natural science that deals with the study of \_\_\_\_\_.

Choose the correct choice.

- A) living things and their life processes
- B) the composition, structure, properties, and changes of matter
- C) the physical features of Earth
- D) the composition, motion, and relative positions of stars and planet

17. A metal sample has a mass of 45.65g. The volume of the sample is 16.9 cm<sup>3</sup>. The density of the sample is \_\_\_\_\_. (Be careful with the significant figures)

Choose the correct choice.

- A) 2.7 g/cm<sup>3</sup>
- B) 0.370 g/cm<sup>3</sup>
- C) 2.70 g/cm<sup>3</sup>
- D) 0.37 g/cm<sup>3</sup>

18. A measured quantity is said to have good accuracy if \_\_\_\_\_.

Choose the correct choice.

- A) it agrees closely with the accepted value
- B) repeated measurements agree closely
- C) it has a small number of significant figures
- D) all digits in the value are significant

19. I. They are pure  
II. They have definite boiling and melting point.  
III. They are homogenous  
IV. They can be decomposed into simpler parts.

Which one(s) of the above are FALSE for elements, but TRUE for compounds?

- A) I
- B) IV
- C) III-IV
- D) I-IV

20. An example of intensive property is \_\_\_\_\_.

Choose the correct choice.

- A) mass
- B) density
- C) volume
- D) amount of energy

21. An known element is shiny and is found to be a good conductor of electricity. Which statement is wrong for this element?

- A) It is a solid at room temperature.
- B) It can be hammered.
- C) it is dull and colored.
- D) It can be rolled into thin sheet.

22. Applied research is designed to \_\_\_\_\_.

Choose the correct choice.

- A) solve a particular problem
- B) satisfy curiosity
- C) gain knowledge
- D) discover new things

23. Chemistry is usually classified as \_\_\_\_\_.

Choose the correct choice.

- A) a biological science
- B) a physical science
- C) a social science
- D) a computer science

24. Which of the following is a chemical change?

- A) Tearing a sheet of paper
- B) Melting a piece of wax
- C) Burning a log
- D) Evaporating water

25. Round the measurement of 9.0267854 to three significant figures.

- A) 9.025
- B) 9.02
- C) 9.03
- D) 9.026

26. Which of the following classifications below is wrong?

- A) C, carbon      metal
- B) Fe, iron      metal
- C) Ne, neon      noble gas
- D) Si, silicon      metalloid

27. Which of the following is heterogenous?

- A) Copper
- B) Alloy
- C) Mixing of Helium and hydrogen gas
- D) Oil and water mixture

28. Which of the following is one of the SI base quantities ?

- A) Energy
- B) Density
- C) Area
- D) Time

29. Which of the following matching is incorrect ?

<u>Symbol</u>	<u>Name</u>
A) Na	Sodium
B) Cu	Copper
C) S	Sulfur
D) P	Potassium

30. Which one of the following statements is not correct?

- A) An arrangement of the symbols of elements is called period.
- B) The vertical columns of the periodic table are called groups or families.
- C) Each element has characteristic properties.
- D) Elements are pure substances that cannot be decomposed by chemical changes.



31. When a theory or hypothesis is approved by all scientists, it is called a \_\_\_\_\_

- A) Experiment
- B) Data
- C) Observation
- D) Law

32. Which of the following is/are not common function(s) of all living things?

- I- Growing                      II- Walking
- III- Cellular structure      IV- Photosynthesis

- A) I only                              B) II only
- C) I and III                         D) II and IV

33. Which is not a part of microscope?

- A) Glass Slide
- B) Fine adjustment
- C) Ocular lens
- D) Coarse Adjustment

34. Chemical substances that neutralize **small amounts** of either an acid or a base added to a solution are called .....

- A) pH                                      B) Buffers
- C) Alkaline                              D) Enzymes

35. Which of the following statement is **incorrect**?

- A) Ethanol causes Cell death in the Liver and Brain of humans.
- B) Methanol can cause blindness or even death when consumed.
- C) Earwax helps prevent microorganisms from entering the ear canal.
- D) Cholesterol is a component of the Cell membrane.

Breakfast : Tea with sugar, three pieces of bread and jam

Lunch : Beans, cakes, dessert

Dinner : Soybean with vinegar, potatoes, dessert

36. If a man eat the foodstuffs above, which of the following molecule is expected to be present in greater quantity in his blood ?

- A) Glucose                              B) Glycerol
- C) Amino acids                         D) Fatty acid

37. What is the name of main energy source of Life in Earth?

- A) Photosynthesis
- B) Chemicals
- C) Sun
- D) Green Plants

38. Oxygen Transport by Hemoglobin is example of ..... reactions.

- A) Reduction-Oxidation
- B) Condensation
- C) Hydrolysis
- D) Capillarity

39. "Biologists are the people who study with living things. They ask questions about living things and search for answers to their questions"

Which question should not be asked by Biologist?

- A) Why leaves change color in the autumn?
- B) Why a bee sting hurts?
- C) What living things are made up of?
- D) Why a chalk fell down if we shoot it?

40. Which of the following describes the correct order of a scientific study?

- A) Experiment - Observation - Law - Hypothesis
- B) Observation - Experiment - Theory- Hypothesis
- C) Observation - Hypothesis - Controlled experiment - Theory - Law
- D) Hypothesis - Theory - Controlled experiment - Law

41. Which of the following pairing is incorrect?

- A) Fats: Lipids that are important energy storage molecules
- B) Peptide bond: Chemical bond between amino acids
- C) Lactose: Commonly called table sugar
- D) Phospholipids: Important components of the cell membrane

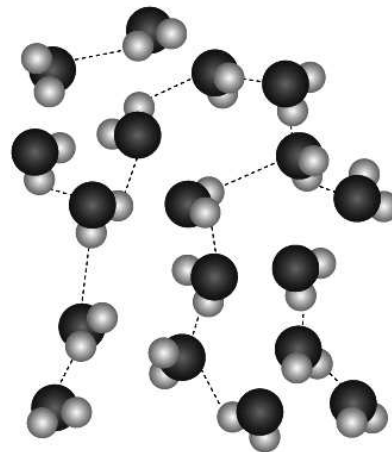
42. Plants make carbohydrates from Carbon dioxide and water by means of sun light .

What is the name of this process?

- A) Fermentation
- B) Respiration
- C) Digestion
- D) Photosynthesis

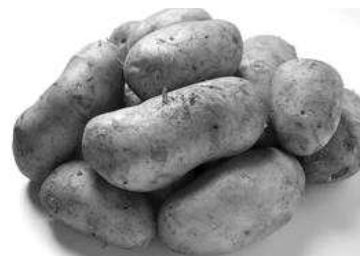
43. Which of the following SI Base Unit is incorrect?

- A) Length - Meter
- B) Mass - Kilogram
- C) Time - Second
- D) Electric Current - Kelvin



44. The dotted lines between Water molecules represent .....

- A) Peptide Bonds
- B) Carbon Bonds
- C) Hydrogen Bonds
- D) Oxygen Bonds



45. Which of the following organic compound is mostly found in above plants?

- A) Starch
- B) Glycogen
- C) Protein
- D) Fat