

برعاية معالى وزير التربية والتعليم السيد الاستاذ / محد عبد اللطيف وتوجيهات مساعد الوزير لشئون تطوير المناهج التعليمية والمشرف على الادارة المركزية لتطوير المناهج د/ اکرم حسن اداءات وتقييمات **Integrated science** لجنة الاعداد والمراجعة خبراء مكتب تنمية مادة العلوم اشراف علمی مستشار الطوم د/ عزيزه رجب خليفة إنبارة المرجز ية لتطويل العه Hell & Track - U.S (Lefer) 2024 - 2025



Answer the following questions:

Question (1) :- A) Choose the correct answer:

1- What role does ozone play in the chemical treatment of water?

- a) Desalination of water
- b) Has a high ability to absorb organic matter and chemical pollutants.
- c) Oxidizes some organic and inorganic to harmless substances.
- d) Purification of water from gases

2-Which of the following reactions leads to decay ozone layer?

a) NO + O₃ \rightarrow NO₂ + O₂

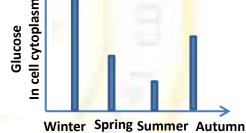
- b) NO₂ + O₃ \rightarrow NO + O₂
- c) $NO_2 + O \rightarrow NO + O_2$

d) NO + $O_2 \rightarrow NO_2$

3- The opposite figure shows the amount of Glucose in the cytoplasm of the cells of an Organism.

- study it carefully and then conclude:

Which regions of the globe can this organism Live in?



E toll & they ist

- a) Aquatic temperate zone
- b) The frozen polar region
- c) Tropical forest zone
- d) Desert zone

4- Freezing of and Thawing of water is a reason for

weathering

- a) Mechanical
- b) Biological
- c) chemical
- d) physical

5- One of your friends who lives in America wants you to tell the rest of your classmates in other countries that it is now 86 °F in America.

-The temperature you will send in a way that all your friends in the scientific field will understand =....

- a) 86 °F
- b) 30 °C
- c) 42 °C
- d) 303 K



6-Liquid substances often have a higher molecular weight than gaseous substances

, despite this, water is a liquid at normal temperature while hydrogen sulfide is a gas

(Molecular weight of H₂O= 18, molecular weight H₂S= 34)

-this is due to.....

a) Higher electronegativity of oxygen and lower polarity of water

b) Lower electronegativity of sulphur and higher polarity of hydrogen sulphide

c) Higher electronegativity of oxygen and higher polarity of water

d) Higher electronegativity of sulphur and Lower polarity of hydrogen sulphide

7- The increase in the thicknesses of the soil indicates to all of the following <u>except</u>.....

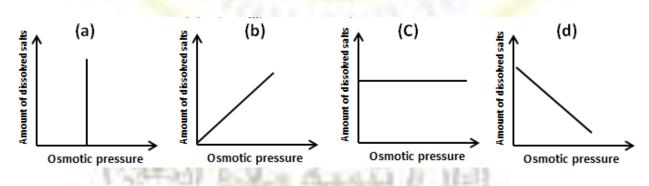
(a) Increasing the effect of living organisms on the rock

(b) Increasing the period of time at which soil is formed

(C) Decreasing the period of time at which soil is formed

(d) The original rocks strongly affected by climate factors

8-Which of the following graphs is scientifically correct?



9- The structural adaptation that common between freshwater fish and salty water fish is.....

- a) Compressed body
- b) Increased concentration of salts in the cells
- c) Streamlined body
- c) Decreased concentration of salts in the cells



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point is	oiling point of a liq			-
	nountain level, whi	ich of the follo	wing is the ratio	of X:Y?
a) Greater t				
b) Less thar				
c) Equal to :				
d) Equal to				
	ue <mark>750</mark> mmHg equi			
(a) 99967.1	1 (b) 89	967.11	(C) 101300	(d)
1013	21			
12- Whi <mark>ch</mark> of the following is a reason of abnormal aquatic algae				
blooms?				
(a) Saturation of water with nitrate and phosphate salts				
(b) Increased solubility of CO ₂				
(C) Saturation of water with sulfate and lead salts				
(d) Increased salinity of the water body				
	t the weak flowers	of plants, fert	ilizers rich in the	element
are				
a) P	b) K	c) N	d) S	
14. The low	vost donsity of w	ator at		
14- The lowest density of water at (a) Temperature 4 [°] C				
(b) Temper				
				1.00
(C) Temper		2 100 2	- W. W.	1.00
(d) Temper		State due	治 出州 "	-
	nimum value (V _{rms})	required for p	propane gas to su	ccesses to
escape	1.940.01 2.1	- Aral	STAN.	
	arth's atmosphere	=	er of here's	
a) 11.1 km/		a mini	1-	
b) 12.2 km/		4 - 202	10	
c) 10.2 km/				
d) 11.2 km/	5			



16- The bald eagle is almost extinct because.....

a) The use of DDT, which affected the strength of its wings.

b) The use of chlordane, which affected its ability to reproduce.

c) Lack of raccoons, muskrats and rabbits to feed on

d) The use of DDT, which affected their ability to reproduce

17- A technique that can be used to measure the ratio of harmful gases

in the air and heavy elements in the soil is

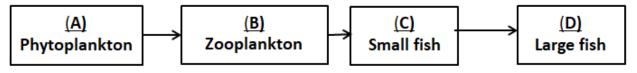
a) Spectroscopy

b) Liquid chromatography

c) Gas chromatography

d) Wet chemical analysis

18- <u>From the following diagram:</u>



-All of the following are causes of disruption in this food chain except.....

a) Increasing numbers of (A) and (B)

B) (D) predating (C) in large numbers

c) Increasing numbers of (B) and decreasing numbers of (A)

d) Decreasing numbers of (D) and (A)

19- If the boiling point of acetic acid under (1 atm) pressure = 118 $^{\circ}$ C

(C) 119 °C

Then the expected boiling point under (0.8 atm) pressure =

(b) 118°C

- (a) 111°C
- (d) 125 °C



20- Which of the following graphs is scientifically incorrect?

