

أسئلة مراجعة شاملة وفق الهيكل الوزاري منهج انسباير	حل
موقع المناهج ← المناهج الإماراتية ← الصف الثامن ← علوم ← الفصل الأول ← حلول ← الملف	
تاريخ إضافة الملف على موقع المناهج: 15-11-23 19:31:23 19:31	
ملفات ا كتب للمعلم ا كتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس	المزيد من مادة علوم:

التواصل الاجتماعي بحسب الصف الثامن								
			7	cuantel				صفحة المناهج الإماراتية على فيسببوك
الرياضيات	فة الانجليزية	الل	العربية	اللغة	لامية	التربية الاسا	رام	المواد على تلغر

المزيد من الملفات بحسب الصف الثامن والمادة علوم في الفصل الأول	
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4. Explain how blending in enables an organism to survive in its environment.

help organisms avoid predators or surprise prey.

5. Three friends were working on their history homework together when they noticed that the corn in an image in their textbook looked a lot different than what corn looks like today. Here are their thoughts:

Deidra: I think the corn from the history book is a different species than the corn we eat today.

Jayden: I think that corn is the same species, but it has changed over time.

Natalia: I think the corn looks different because we grow it differently today. If we grew it the same way, it would look the same.



Circle the student you agree with most. Explain your choice.

It has been selectively bred by humans.

6. Can traits of organisms always be predicted with selective breeding?

No, due to mutations.

7. How are natural selection and artificial selection similar, and how are they different? Provide examples for each process.

Both lead to changes in populations.

Natural selection occurs naturally (e.g., tortoises),

while Artificial selection is done by humans (e.g., breeding dogs for specific traits)

Question

Four friends were comparing their ideas about fossils. This is what they said: <u>Emma</u>: I think fossils are pieces of dead animals and plants and tell us little about the animal or plant.

<u>Aidan</u>: I think fossils only come from bones of extinct animals that lived millions of years ago.

Ethan: I think fossils are the evidence of the existence of organisms seen in the remains of bones, shells, or even impressions of rock layers.

<u>Madison</u>: Fossils are the remains of plants and animals that have recently died. Their remains cannot be preserved for very long.



With whom do you agree most? Explain why you agree with that person.

Ethan, fossils are the preserved remains or evidence of living things.

2. How do fossils, such as Tiktaalik, provide evidence of evolution?

Fossils provide evidence of ancient life, show evolutionary changes, and help us understand Earth's history.



showing features of both fish and land animals (transitional species)

3. What method can scientists use to analyze and interpret when the fossils in the bottom of the figure appeared on Earth?

A) relative-age datingB) trace fossils

- C) Mineralization
- D) Carbonization





A) Rock layers all contain different sets of fossils.

B) Older fossils are located closest to Earth's surface.

C) Fossils are younger the closer they are to the surface.

D) Each fossil is younger than the rock layer in which it is found.

5. Proteins, such as cytochrome c, are made from combinations of 20 amino acids. The graph below shows the number of amino acid differences in cytochrome c between humans and other organisms. Use the graph to answer the questions.



A. Which organisms do you think might be more closely related to each other: a dog and a turtle or a dog and a silkworm? Explain your answer.

Dog and a turtle, because they have more amino acids in common.

B. Which organism has the least differences in the number of amino acids in cytochrome c compared to humans? Which organism has the greatest difference?

Rhesus monkey \rightarrow **least** differences. **Yeast cell** \rightarrow **most** differences.

C. Notice the number of differences of amino acids in cytochrome c between each organism and humans. How might these differences explain the relatedness of each organism to humans?

Closely related organisms \rightarrow less time for changes to happen





6. A force of 100 N is applied to an object, giving it an acceleration of 2 m/s². What is the mass of the object?

$$m = \frac{F}{a} = \frac{100}{2} = 50 \ Kg$$

7. What is the acceleration when a force of 2.0 N is applied to a ball that has a mass of 0.60 kg?

$$a = \frac{F}{m} = \frac{2}{0.6} = 3.3 \text{ m/s}^2$$



Question 4: Notice the large fault cutting across the rock layers. Do you think the fault and the rock layers are the same age? Why or why not?
A) Yes, the fault and rock layers formed at the same time. B) No, the rock layers formed first, and the fault appeared later, cutting through them.
C) Yes, faults are a natural part of rock layer formation.D) No, faults only occur in very old rocks.
Question 5 : Order the features in the illustration from oldest to youngest.
A) JKLM B) MJKL C) JKML D) MLKJ
Question 6: Which geologic principle must be assumed to determine the relative age of M?
A) Cross-cutting relationships B) Superposition C) Original horizontality D) Inclusions
Question 7: What is the importance of DNA?
 A) Provides energy for cells to function. B) Contains the genetic information needed for growth, development, and reproduction. C) Controls the movement of cells. D) Supplies nutrients to organisms.
Question 8: Which of the following is <u>Not</u> correct regarding the structure of DNA?
 A) A gene is a segment of DNA on a chromosome B) DNA in a chromosome is tightly coiled C) Chromosomes are made of proteins and DNA D) DNA is a single-standard helix and has the nitrogen base uracil (U)

Question 9: Which of the following correctly lists the steps of protein synthesis and wher each step takes place?	e		
 A) Transcription in the cytoplasm, Translation in the nucleus B) Replication in the nucleus, Transcription in the cytoplasm C) Transcription in the nucleus, Translation in the ribosome D) Translation in the nucleus, Transcription in the ribosome 			
Question 10: What are transcription and translation?			
 A) Transcription is making mRNA from DNA, and translation is making a protein from mRNA B) Transcription is making DNA from RNA, and translation is making RNA from protein. C) Transcription is making protein from mRNA, and translation is making mRNA from DNA. D) Transcription is making RNA from protein, and translation is making DNA from RNA. 	۹.		
Question 11: Which of the following sets of nucleotides would be found <u>ONLY</u> in RNA?			
A) Adenine (A) B) Uracil (U) C) Cytosine (C) D) Guanine (G)			
Question 12: Which of the following is <u>NOT</u> a type of RNA?			
A) mRNA B) tRNA C) rRNA D) dRNA			
Question 13: Based on the animation and the figure, complete the DNA to mRNA transcription below?			
A T G A U C A G A G C A T T A C T A G A G C			
A) TCGTAA B) TGCTAA C) UCGUAA D) UGCUAA			
Question 14: The diagram below shows a segment of DNA before and after replication.			
 A) changes to the genotype of the organism B) changes to the traits of the organism C) changes in the production of proteins D) all of the above Question 15: The mutation shown above resulted in muscle degeneration. The effect of t mutation is that muscles become progressively weaker. What type of mutation is this? A) positive B) neutral C) negative D) none of the above 	his		
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Question 25: What does the figure suggest?



A) Horses appeared up to a million years ago and did not have any ancestors before that time. B) Between 55 and 50 million years ago there weren't any animals that could be considered as related to horses.

C) The modern horse is related to other extinct species.

D) The hyracotherium is the same species as the modern horse.

Question 26: What patterns of change have occurred over 55 million years?

A) Horses have become smaller and weaker.

B) Horses have grown larger and taller with stronger legs.

C) Horses have developed shorter legs to run slower.

D) Horses have stopped evolving over time.

Question 27: How long would it take a bus traveling at 52 km/h to travel 130 km?

- A) 1 hour
- B) 1.5 hours
- C) 2 hours
- D) 2.5 hours

Question 28: A driver travels 55 km in 1 hour. He then drives at a speed of 35 km/h for 2 hours. Next, he drives 175 km in 3 hours. What was his average speed?

- A) 85 Km/h
- <mark>B)</mark> 50 Km/h
- C) 35 Km/h
- D) 90 Km/h



Question 32: What happens to the motion of a water tube when it's pushed or pulled?



A) It stops moving.

- B) It accelerates, changing its direction or speed.
- C) It remains stationary.
- D) It slows down gradually.

Question 33: How does friction's effect on motion help explain what happens when you push or pull a water tube?

- A) Friction causes the water tube to move indefinitely in one direction.
- B) Friction slows down the water tube after it's pushed or pulled.
- C) Friction makes the water tube move faster over time.
- D) Friction has no effect on the movement of the water tube.

Question 34: Frictio	n always acts i <mark>n a dire</mark> ction _	to the dir	ection of motion.
A) Same	B) Opposite	C) Perpendicular	D) Random

Question 35: In the following figure, an airboat is pushing air backward, and the air is pushing the airboat forward. This scenario is the best example of:



- A) Newton's first law of motion
- B) Newton's second law of motion
- C) Newton's third law of motion
- D) The law of conservation of energy

Question 36: What pattern exists between all forces that you apply to objects or systems of objects?				
 A) When you push an object, it moves without resistance. B) When you apply force to an object, it changes color. C) When you push an object, the object will push back with the same amount of force. D) When you pull an object, it moves faster than when you push it. 				
Question 37: Accordin exerts a force on anot	g to Newton's Third L ner object?	aw of Motion, what ha	appens when one object	
A) The second object e B) The second object e C) The second object d D) The second object e	xerts a force that is ea xerts a force that is gr oes not exert any forc xerts a force that is sr	qual in size and opposit eater in size and in the ce back. maller in size and oppos	e in direction. same direction. site in direction.	
Question 38: If you pu is which of the followi	sh on a wall with a fo ng?	rce of 30 N, the force a	acting on you from the wall	
A) 0 N	B) 10 N	C) 20 N	<mark>D)</mark> 30 N	
Question 39: Based on Newton's third law of motion, when a person on a skateboard throws a heavy concrete block to the north, the person will be pushed to the:				
A) east	B) west	C) north	<mark>D)</mark> South	
Question 40: When yo third law, the ground p A) Earth's mass is so la	u run, your feet push bushes back with an e	against the ground, an equal force. Why doesn	nd according to Newton's n't Earth appear to move?	
B) The ground is too he C) Only people can mo D) Earth moves in the o	eavy to move at all. ve, not Earth. opposite direction but	: stops instantly.	repared by Mr. Issa Waswas 0547812171	

Question 41: Using the figure, what pulls the sky driver to the ground?

- A) Air resistance
- B) Gravitational force
- C) Wind force
- D) Magnetic force



Question 42: What are the two main factors that affect gravitational force?

- A) Mass and distance
- C) Volume and temperature

- B) Speed and direction
- D) Pressure and altitude

Question 43: study the figure below. What factors increase the gravitational energy between objects ?



- A) Increasing object masses and increasing distance between objects.
- B) Decreasing object masses and decreasing distance between objects.
- C) Increasing object masses and decreasing distance between objects.
- D) Decreasing object masses and increasing distance between objects.

Question 44: If an astronaut moves away from Earth toward the Moon, what happens to the gravitational forces?



A) The gravitational force between Earth and the astronaut decreases, while the force between the Moon and the astronaut increases.

B) The gravitational force between Earth and the astronaut increases, while the force between the Moon and the astronaut decreases.

C) The gravitational forces between the astronaut and both Earth and the Moon remain the same.

D) The gravitational force between Earth and the astronaut decreases, while the force between the Moon and the astronaut also decreases.