

MOLLUSKS ARTHROPODS AND ECHINODERMS CHAPTER TEST

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What characteristics do mollusks and arthropods share? Both arthropods and molluscs show bilateral symmetry, which means that their bodies are divided into two equal halves. Arthropods are animals having a segmented body with paired appendages or legs. Molluscs are animals having soft bodies usually covered in mucus. The arthropods have exoskeleton covers on their body.

What do mollusks and echinoderms have in common? The phyla Arthropoda, Mollusca, Echinodermata, and Chordata all share the common characteristic of being animals, meaning they belong to the kingdom Animalia. As animals, these phyla all contain organisms that are multicellular and have eukaryotic cells, meaning they have membrane-bound organelles, including a nucleus.

What molluscs have gills or organs that remove oxygen from the water? Molluscs breathe with gills called ctenidia that sit in a cavity between the mantle and body mass (Fig. 3.57). In some molluscs, most notably bivalves like oysters and mussels, the ctenidia are also used as filter feeding apparatus to strain particulate food from the water.

What is true about all mollusks?

What are 3 of the 7 characteristics shared by all arthropods? The arthropoda characteristics are mentioned below: The body is triploblastic, segmented, and bilaterally symmetrical. They exhibit organ system level of organization. The body is divided into head, thorax, and abdomen.

What 3 features do all mollusks share? Mollusks have a soft body and share several characteristics, including a muscular foot, a visceral mass of internal organs, and a mantle.

What are 3 common echinoderms? The word "echinoderm" means "spiny skin." This phylum includes animals such as sea stars, sea urchins, sea cucumbers, brittle stars, and crinoids. All of these are marine animals with radial symmetry in their body shapes.

What are the three major characteristics shared by all echinoderms? Each class of echinoderms has its own unique characteristics and adaptations, but they share common features such as radial symmetry, a water vascular system, and a spiny or prickly skin.

What are 3 things all mollusks have in common? The three main parts of a mollusk's body include a muscular foot, a visceral mass, and a mantle. The three main types of mollusks are gastropods, bivalves, and cephalopods. Gastropods, like slugs and snails, can live on land or in the water.

What is the largest group of mollusks? Diversity and variability of shells of molluscs on display About 80% of all known mollusc species are gastropods (snails and slugs), including this cowry (a sea snail).

Do all mollusks have a radula? The radula is unique to the mollusks, and is found in every class of mollusk except the bivalves, which instead use cilia, waving filaments that bring minute organisms to the mouth. Within the gastropods, the radula is used in feeding by both herbivorous and carnivorous snails and slugs.

Do mollusks have gills or lungs? Molluscs have gills in their mantle cavity, which are used for respiration to exchange oxygen and carbon dioxide. Gills are employed by some bivalves for both filter feeding and breathing. Land molluscs have pulmonary sacs or cavities, which are aerial respiration organs.

What are 5 facts about mollusks?

What two body systems do mollusks have? Mollusks have a coelom and a complete digestive system. Their excretory system consists of tube-shaped organs

called nephridia (see Figure above). The organs filter waste from body fluids and release the waste into the coelom. Terrestrial mollusks exchange gases with the surrounding air.

How long can a mollusk live out of water? Littoral mollusks are highly resistant to drying conditions. Duration of their survival in the air ranges from several hours to several months or even one year at the most. Resistance to drying notably increases at low air temperature, which can be illustrated by *Donax julianae*, *Mytilus edulis*, and M.

What are the harmful arthropods? The subphylum Chelicerata and class Arachnida includes spiders and scorpions, which are responsible for the most human injuries worldwide. In the subphylum Myriapoda, the classes Chilopoda and Diplopoda (centipedes and millipedes) also cause human harm.

What is the disadvantage of having an exoskeleton? A disadvantage to having an exoskeleton is the fact that an exoskeleton cannot grow with the animal. When the arthropod grows, it must molt the old exoskeleton, revealing a new, soft exoskeleton.

Are humans arthropods? Humans are chordates, which is the overall phylum that vertebrates belong to. Arthropods are a separate phylum, so humans are more closely related to the phylum they belong to, than to another different phylum.

What 3 characteristics do all molluscs have? Final answer: Three common characteristics of most mollusks include a mantle and calcareous shell, a feeding organ called a radula, and respiratory structures known as ctenidia that facilitate gas exchange. However, the presence and development of these structures may differ across various mollusk species.

What is the only major feature that all mollusks possess? Answer and Explanation: All mollusks possess a mantle. This feature encases the body of the animal. In many species of mollusks, such as clams and oysters, the mantle forms a shell made up mostly of calcium carbonate.

What are 2 major types of mollusks?

What do echinoderms eat? The diet of echinoderms varies depending on the class. Sea stars are carnivores that only consume other animals. Sea urchins and sand dollars are herbivores that eat algae, while sea cucumbers are mainly omnivorous deposit feeders— meaning they eat both plant and animal matter.

Do all echinoderms have 3 germ layers? All are triploblastic: their three-layered bodies derive from three germ layers.

How do echinoderms move? An echinoderm moves by using many tube feet. Tube feet are small, delicate projections attached along the side of a water-filled tube called a radial canal. Figure 3.85 shows some examples of echinoderm tube feet. Tube feet extend through the small holes in the skeleton to the outside.

Which phylum is exclusively marine? Phylum Echinodermata and Ctenophora are exclusively marine. They are only found in sea water.

How do echinoderms differ from arthropods? Echinoderms have an endoskeleton, which means their skeleton is internal. Calcium carbonate is used to make it (calcareous). Bones and cartilage make up the internal skeleton of vertebrates. Arthropods have a chitinous exoskeleton, which is an exterior shell comprised of chitin.

What is the difference between sea urchin starfish and sea cucumber? These squishy invertebrates are echinoderms, making them distant relatives to starfish and urchins. Unlike starfish or sea urchins, the bodies of sea cucumbers are covered with soft, leathery skin instead of hard spines. If you ever encounter a sea cuke and it feels threatened, you could be in for a surprise.

Are mollusks and arthropods the same thing? Mollusca and arthropods are not the same thing. They are both animal phyla, however these phyla have different characteristics. Mollusks have soft bodies which are protected by a shell while arthropods have segmented bodies which are protected by a chemical polymer called chitin.

What is the connecting link between arthropods and molluscs? Final answer: Peripatus is a connecting link between Annelida and Arthropoda.

What are the shared characteristics of arthropods? All arthropods possess an exoskeleton, bi-lateral symmetry, jointed appendages, segmented bodies, and specialized appendages. The major arthropod classes can be separated by comparing their number of body regions, legs, and antennae. Class Crustacea (crus-ta-ce-uh), the crustaceans. This is a very diverse class.

What characteristics are shared by all mollusks?

What are three differences between echinoderms and arthropods? Arthropods inhabit almost all habitats, while echinoderms are largely marine dwelling. Fundamentally, body covering distinguishes arthropods from echinoderms. While arthropods have non-living, tough exoskeleton, echinoderms have living endoskeletons which acts as their protective covering.

What are 3 animals that are mollusks? Mollusca is the group of animals that includes gastropods (snails, slugs, limpets etc), bivalves (clams, oysters, mussels etc), cephalopods (octopuses, nautilus, squids etc), scaphopods (tusk shells), caudofoveates, solenogastres, monoplacophorans and polyplacophorans (chitons).

How do mollusks reproduce? Mollusks are primarily of separate sexes, and the reproductive organs (gonads) are simple. Reproduction via an unfertilized gamete (parthenogenesis) is also found among gastropods of the subclass Prosobranchia. Most reproduction, however, is by sexual means.

What is the connecting link between echinodermata and mollusks? Peripatus is a connecting link between mollusks and echinodermata. Explanation: Peripatus is a terrestrial animal found living in moist places in crevices of rocks, under bark, stones, logs and beneath fallen leaves and other dark and damp places or along stream banks.

What is the body cavity of mollusks and arthropods? Haemocoel is the blood-filled body cavity of arthropods and molluscs (e.g., cockroaches and pilas).

What are the similarities between mollusks and Annelida? Like mollusks, annelids exhibit protostomic development. Annelids are bilaterally symmetrical and have a worm-like appearance. Their particular segmented body plan results in repetition of internal and external features in each body segment. This type of body

plan is called metamerism.

What is the largest group of arthropods? Answer and Explanation: The insects are the largest group of arthropods. Insects are distinctive from other arthropods because they have three divisions of their body: the head, thorax, and abdomen. This group has over 8,000 species that have been identified and probably many more unidentified species.

What are the four major groups of arthropods?

What are 5 facts about arthropods?

Which characteristic is shared by all mollusks and echinoderms? The characteristic that is shared by all mollusks and echinoderms is "lack of a backbone". This is the correct option as echinoderms and mollusks are both invertebrates, which means they lack a vertebral column or backbone. They have a soft body and an exoskeleton instead.

What 3 characteristics do all molluscs have? Final answer: Three common characteristics of most mollusks include a mantle and calcareous shell, a feeding organ called a radula, and respiratory structures known as ctenidia that facilitate gas exchange. However, the presence and development of these structures may differ across various mollusk species.

What are the 4 parts that characterize mollusks? The body plan of most mollusks has four parts: foot, mantle, shell, and visceral mass.

What engine is in a Hyundai Terracan? The Terracan was offered with three engines: a 3.5 litre V6 gasoline, a 2.5 litre diesel licensed from Mitsubishi, and a more fuel-efficient 2.9 litre diesel offered in Europe, Australia and New Zealand.

What is the fuel consumption of Hyundai Terracan 2007? The Hyundai Terracan 2007 offers fuel consumption ranging from 10.1 to 15.6 L/100km. What is the Hyundai Terracan 2007 warranty period? Hyundai Terracan 2007 offers a 5 year, unlimited kilometre warranty.

What is the mileage of Hyundai Terracan 2006?

What is the fuel consumption of Hyundai Terracan? The Hyundai Terracan 2005 offers fuel consumption ranging from 10.1 to 15.6 L/100km.

Is Hyundai a Japanese engine? The Hyundai Motor Group (HMG; IPA: [ʰjʌndʌ]; stylized as HYUNDAI) is a South Korean chaebol (loosely similar to a multinational conglomerate but without a central holding company or ownership structure) headquartered in Seoul, South Korea.

Who makes Hyundai diesel engines? The Hyundai D engine is a family of 3-cylinder and 4-cylinder diesel engines produced by Hyundai Motor Company under license from VM Motori.

When did Hyundai stop making Terracan? All HYUNDAI Terracan Models by Year (2001-2007) - Specs, Pictures & History - autoevolution.

Does the Hyundai Terracan have a turbo? Engine: Originally an Italian design, the 2.9-litre four-cylinder turbo-diesel has been adapted by Hyundai and has good power 120 kilowatts and plenty of torque, which reaches its peak from a low 1750rpm.

Is Hyundai Terracan 4x4? Family 4x4 at its finest! 2006 Hyundai Terracan in the robust and reliable turbo diesel, auto transmission, proper 4x4 with high and low range, 7 seats with room for the whole family, electric brakes, UHF, tow pack, and more! A fantastic family wagon that is ready for adv...

How many km does a Hyundai engine last? What is the lifespan of Hyundai i20 elite diesel engine? How many kilometres can it go without any problems? All Hyundai engines are designed for maximum life of 300 to 400k kms provided the service schedule of the engine manufacturer is followed.

How fast is the Hyundai Terracan? Th car has a top speed of 166 kmph and makes it from 0 to 100 in about 13.7 seconds.

Will Hyundai last 200k miles? How long do Hyundai cars last? Hyundais last, on average, about 200,000 miles, comparable to most life spans for mainstream automotive manufacturers. While no records have been broken for miles driven or years owned with a Hyundai, that's not to say none are in progress.

What is the engine capacity of Hyundai Terracan? The Hyundai Terracan has 1 Diesel Engine on offer. The Diesel engine is 2902 cc . It is available with Manual transmission.

What is the mileage of Hyundai Terracan 4wd? Now it goes 0-100 km/hr in about 11.5 seconds and it gives a nice fuel average of 13-14 kmpl.

Which Hyundai is best on fuel?

Is Hyundai as reliable as Toyota? Reliability Ratings According to a 2022 J.D. Power U.S. Vehicle Dependability Study, Hyundai is one of the most dependable brands, ranking higher than brands such as Toyota, Lexus, Honda, Mazda, and BMW.

Is Hyundai or Honda better? Both Hyundai and Honda are well-known brands. They are popular for their reliability, safety, and value. Honda has a longer history and a reputation for better quality.

Is Kia better than Hyundai? Hyundai Reliability — According to the J.D. Power 2022 U.S. Vehicle Dependability Study, Kia was the highest-ranking manufacturer for reliability in the US, with the least amount of issues per 100 vehicles. Hyundai is close, winning the bronze, but for the current model year, Kia takes the gold medal!

Which is better CRDi or TDi? CRDi - Common rail direct injection. TDi uses turbocharging from exhaust & CRDi itself has high pressure pump so it do not necessarily requires turbocharger to boost engine's efficiency & power. CRDi technology is comparatively better for small capacity engines.

How long will a Hyundai diesel engine last? On average, a Hyundai's engine has a lifespan that is anywhere around 250,000 km to 400,000 km. Depending on how much you drive each day, your car's engine could be in perfect working condition for 15 to 20 years.

Is CRDi engine good? Although it comes with its complexities, and maintenance and treatment might be more difficult than a regular diesel engine, a CRDi ensures that the engine is overall a better option in the long run.

Is the Hyundai Terracan a good 4x4? Good solid 4x4 Very comfortable with high equipment levels , these cars are great for the family or as workhorses to move quite large loads.

Is the 2006 Hyundai Terracan a good car? 2006 Hyundai Terracan SLX HP The diesel is the must-have and if you want a well-priced, reliable off-road vehicle, I highly recommend finding yourself a well-looked-after and much-loved Terracan. Like any diesel, if you look after it (servicing and oil changes) it will look after you.

What does Terracan mean? Did you know Terracan stands for 'King of the Land' – Terra means land and Khan means King or ruler!

What is the fuel consumption of Terracan? The Hyundai Terracan currently offers fuel consumption from 10.1 to 13L/100km.

What is a Hyundai Terracan based on? The Korean carmaker evolved with massive help from Mitsubishi, which provided engines, drivetrains, gearboxes, and even entire vehicles sold as re-badged by Hyundais. The Galloper was a second-generation Pajero/Montero/Shogun, and the Terracan used the same chassis.

How long does a Hyundai turbo last? On average, turbos last up to 150,000 miles. But with good care, they may last up to 200,000 miles or have a life expectancy of 30 years.

Whose engines do Hyundai use? Historically, Hyundai engines were copied from Mitsubishi, but currently there is a Global Engine Alliance between Hyundai, Chrysler and Mitsubishi, there mostly Hyundai does all the work and the rest are mostly financing it, like Theta engine.

Does the Hyundai Terracan have a turbo? Engine: Originally an Italian design, the 2.9-litre four-cylinder turbo-diesel has been adapted by Hyundai and has good power 120 kilowatts and plenty of torque, which reaches its peak from a low 1750rpm.

Who builds engines for Hyundai? Hyundai produces a majority of its engines in-house. The company boasts its own engine manufacturing division, Hyundai Powertech, which is responsible for crafting the machines that power many Hyundai vehicles.

What engines do Hyundai excavators use? For many of the excavators, Hyundai makes use of Mitsubishi engines. The Hyundai R170-7A excavator weighs 17 tons. The R170-7A is powered by a D04FD-TAA, a four-cylinder turbo-diesel aftercooler , built for power, reliability and fuel economy. This engine meets the latest EPA Tier 3 and EU level 3 emission standards.

What caused Christopher Hitchens death? Hitchens died from complications related to oesophageal cancer in December 2011, at the age of 62.

Why did Hitchens get cancer? That Hitchens developed a malignant tumor on his esophagus (not his throat), then, was the natural result of too much alcohol, too many cigarettes, and unrestrained mitotic division. It didn't signify anything, least of all a deity's vengeance.

Is Christopher Hitchens a socialist? Marxism and socialism In 1967, he joined the International Socialists while at Balliol College, Oxford. Under the influence of Peter Sedgwick, who translated the writings of Russian revolutionary and Soviet dissident Victor Serge, Hitchens forged an ideological interest in Trotskyist and anti-Stalinist socialism.

Why did Peter and Christopher Hitchens fall out? Peter was a member of the International Socialists (forerunners of the modern Socialist Workers' Party) from 1968 to 1975 (beginning at age 17) after Christopher introduced him to them. The brothers fell out after Peter wrote a 2001 article in The Spectator which allegedly characterised Christopher as a Stalinist.

What is a famous quote from Christopher Hitchens? Never be a spectator of unfairness or stupidity. Seek out argument and disputation for their own sake; the grave will supply plenty of time for silence. Suspect your own motives, and all excuses. Do not live for others any more than you would expect others to live for you.

What is the story of mortality by Christopher Hitchens about? Mortality (2012) presents a collection of essays written by Christopher Hitchens after he was diagnosed with esophageal cancer. In these blinks, you'll explore fundamental questions addressing death and life, the nature of pain and how we cope with them.

What is the main cause of esophagus cancer? Tobacco use: This includes smoking and using smokeless tobacco. Alcohol use: Chronic and/or heavy use of alcohol increases the risk of esophageal cancer. Obesity: Being overweight or having obesity may cause inflammation in your esophagus that could become cancer.

What did Christopher Hitchens say about death? If I convert it's because it's better that a believer dies than that an atheist does. In one way, I suppose, I have been "in denial" for some time, knowingly burning the candle at both ends and finding that it often gives a lovely light.

Did Christopher Hitchens believe in free will? Yes I have free will; I have no choice but to have it.

Was Christopher Hitchens a smoker? After he was diagnosed with esophageal cancer, his mellifluous voice now wheezy and cracked, Hitchens explained to an interviewer that, despite his illness, he still found it easy to index smoking's small virtues: "It stopped me being bored, stopped other people being boring, to some extent. It would keep me awake.

Who attended Christopher Hitchens' funeral? Attendees included Stephen Fry, Martin Amis, Salman Rushdie, Ian McEwan, Tom Stoppard, Christopher Buckley, Olivia Wilde, Sean Penn, Padma Lakshmi, Carl Bernstein, Tina Brown, Jason Sudeikis, David Remnick, Jon Meacham, National Institutes of Health director Francis Collins, and physicist Lawrence Krauss, as well as ...

Who is the godfather of socialism? Karl Marx (German: [maʔks]; 5 May 1818 – 14 March 1883) was a German-born philosopher, political theorist, economist, historian, sociologist, journalist, and revolutionary socialist.

Why did Christopher Hitchens not believe in God? Hitchens posited that organized religion is "violent, irrational, intolerant, allied to racism, tribalism, and bigotry, invested in ignorance and hostile to free inquiry, contemptuous of women and coercive toward children" and sectarian, and that accordingly it "ought to have a great deal on its conscience".

Did the Hitchens brothers get along? The two brothers have never been close, and in fact are well known to dislike each other. But Peter is obviously sad when asked about his brother's illness, and one can imagine that, if he had known what was to come, he might have kept his sword in its scabbard.

How rich was Christopher Hitchens? Christopher Hitchens was a British-American author, polemicist, debater and journalist who had a net worth of \$4 million dollars at the time of his death.

The Triune Brain in Evolution: Role in Paleocerebral Functions

Author: Paul D. MacLean **Published:** February 1990

Question 1: What is the triune brain theory?

Answer: The triune brain theory, proposed by Paul D. MacLean, suggests that the human brain can be divided into three evolutionary levels: the reptilian complex, the limbic complex, and the neocortex.

Question 2: What is the role of the reptilian complex?

Answer: The reptilian complex, located at the base of the brain, is responsible for basic survival instincts and functions, such as breathing, heart rate, and fight-or-flight responses. It is believed to have evolved in primitive reptiles.

Question 3: What is the role of the limbic complex?

Answer: The limbic complex, situated around the reptilian complex, is involved in emotions, memory, and motivation. It is believed to have evolved in early mammals and is responsible for behaviors like mating, nurturing, and territorial aggression.

Question 4: What is the role of the neocortex?

Answer: The neocortex, the most developed part of the brain, is responsible for higher cognitive functions such as language, reasoning, and abstract thought. It is believed to have evolved in primates and humans and allows for complex decision-making and problem-solving.

Question 5: How does the triune brain theory explain paleocerebral functions?

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Answer: According to MacLean's theory, the paleocerebral functions, which include instincts, emotions, and basic survival mechanisms, are primarily regulated by the reptilian and limbic complexes. These functions work together to ensure the survival and well-being of the individual. The neocortex, while not directly involved in these functions, can modulate and influence them through its connections with the lower brain structures.

[hyundai terracan repair 2001 2007, mortality christopher hitchens, the triune brain in evolution role in paleocerebral functions author paul d maclean published on february 1990](#)

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