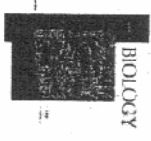


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Multiple Choice Quiz

Please answer all questions

- 1 A rasping radula is characteristic of all mollusks except **A**
 - A) bivalves
 - B) cephalopods
 - C) gastropods
 - D) chiton
- 2 The stage of marine snails and bivalves that has the beginning of a foot, shell, and mantle is the **C**
 - A) planula
 - B) morula
 - C) veliger
 - D) trochophore
- 3 Which of the following mollusks is internally segmented? **D**
 - A) chiton
 - B) gastropod
 - C) cephalopod
 - D) none of the above
- 4 A visceral peritoneum can be found in **A**
 - A) coelomates
 - B) acoelomates
 - C) pseudocoelomates
 - D) all of the above
- 5 Which of the following is not characteristic of bilateral symmetry? **D**
 - A) anterior
 - B) dorsal surface
 - C) left and right sections are mirror images
 - D) all sections are mirror images
- 6 Presumably the complex eyes of _____ enable them to escape predators. **A**
 - A) snails

- B) scallops
- C) oysters
- D) giant clams
- E) whelks

7 The digestive tube of the Phoronids is **B**

- A) two way
- B) U-shaped
- C) straight
- D) coiled
- E) lacking

8 The leech characteristic, _____, shared with oligochaetes is part of the evidence that leeches evolved from oligochaetes. **B**

- A) suckers
- B) internal segmentation
- C) ctenium
- D) parapodia
- E) anticoagulant

9 The molluscan radula is used for **E**

- A) reproduction
- B) locomotion
- C) respiration
- D) circulation
- E) food getting

10 If you can't tell a squid from an octopus, count their tentacles. Squids have **D**

- A) 12
- B) 16
- C) 8
- D) 10
- E) 80-90

11 The _____ is a cilia lined funnel used by mollusks for excretion. **A**

- A) nephrostome
- B) flame cell
- C) operculum
- D) zoecium
- E) parapodium

12 Sexually, earthworms are **B**

- A) separate sexed
- B) hermaphroditic but not self-fertilizing
- C) parthenogenic
- D) hermaphroditic and self-fertilizing
- E) none of the above

13 Most marine gastropods have a lid, called the _____, that can close off the opening to their shell. **A**

- A) rostrum

- A) priostomum
- B) osculum
- C) operculum
- D) rellum

14 The only class of mollusk to have a closed circulatory system includes the

- A) polychaete
- B) brachiopod
- C) snail
- D) oyster
- E) octopus

15 If the adductor muscle of a scallop is relaxed, the shell will

- A) be closed slightly
- B) be lost
- C) be closed tightly
- D) open or close in response to waves and currents
- E) none of the above

16 Unlike other annelids, polychaetes usually lack

- A) a coelom
- B) parapodia
- C) setae
- D) permanent gonads
- E) palps

17 The coelomic cavity of lophophorates can be found in the

- A) tentacles
- B) mantle
- C) foot
- D) lungs
- E) gills

18 The first larval stage of mollusks is the

- A) naiald
- B) trochophore
- C) planula
- D) veliger
- E) oligophore

19 Most bivalve mollusks are

- A) parasites
- B) commensals
- C) predators
- D) saprophytes
- E) filter feeders

20 The contemporary mollusk most resembling the ancestral mollusk is the

- A) slug
- B) squid

- C) chiton
- D) nudibranch
- E) clam

21 Bivalves use _____ to convey food to their mouths

- A) cilia
- B) parapodia
- C) palps
- D) setae
- E) flagella

22 The only non-marine lophophorates are the

- A) brachiopods
- B) snails
- C) bryozoans
- D) phionids
- E) slugs

23 An annelid characteristic of polychaetes shared by all mollusks is

- A) a trochophore larva
- B) a closed circulatory system
- C) segmentation
- D) the number of heart chambers
- E) a marine habitat

24 Ectopods attach to rocks by means of

- A) drri
- B) tentacles
- C) setae
- D) a zoeocium
- E) an operculum

25 The palps of bivalves are used for

- A) reproduction
- B) locomotion
- C) feeding
- D) excretion
- E) circulation

26 Which of the following statements about annelids and flatworms is correct?

- A) Both have a complete digestive tract.
- B) Both have a body cavity of one type or another.
- C) Both have a closed circulatory system.
- D) Flatworms are unsegmented, whereas annelids are segmented.
- E) b, c, and d are true.

27 Which is the most inclusive term?

- A) Annelida
- B) Protostomes
- C) leeches

- D) Oligochaeta
- E) polychaetes

28 The evolution of an internal body cavity was an important improvement in animal body design in which area?

- A) circulation
- B) movement
- C) organ function
- D) all of the above
- E) none of the above

D

29 The contact of the mesoderm and endoderm in coelomates allowed for primary induction and the formation of:

- A) highly specialized organs
- B) a muscular foot for movement
- C) a protective shell
- D) all of the above
- E) none of the above

A

30 Which one of the following is not a characteristic shared by all mollusks?

- A) a mantle
- B) gills
- C) a radula
- D) a coelom
- E) All of the above are shared by mollusks.

C

31 The first segmented animals to evolve were:

- A) rotifers
- B) cephalopods
- C) arthropods
- D) echinoderms
- E) annelids

E

32 Gastropods, cephalopods, and bivalves all share

- A) a mantle
- B) tentacles
- C) a radula
- D) torsion during development
- E) an external shell

A

33 Which of the following is not a characteristic of most annelids?

- A) nephridia
- B) closed circulatory system
- C) segmentation
- D) pseudocoelom
- E) setae

D

34 Which of the following belongs to the phylum Annelida?

- A) polychaetes
- B) gastropods
- C) nematods

A

- D) arthropods
- E) cephalopods

35 The key evolutionary advance in annelids is

- A) cephalization
- B) coelom
- C) segmentation
- D) lophophore
- E) deuterostome development

C

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