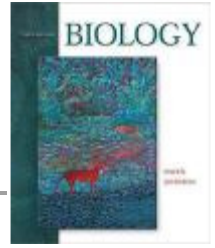


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Biology, 6/e**Author: Dr. George B. Johnson, Washington University****Author: Dr. Peter H. Raven, Missouri Botanical Gardens & Washington University****Contributor: Dr. Susan Singer, Carleton College****Contributor: Dr. Jonathan Losos, Washington University****Mollusks and Annelids**

chapter 45

eLearning Sessions
Multiple Choice
Answers to Review
Questions

Multiple Choice Quiz

Please answer all questions

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- 1 A rasping radula is characteristic of all mollusks except
 - 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
 - A) planula
 - B) morula
 - C) veliger
 - D) trochophore
- 3 Which of the following mollusks is internally segmented?
 - A) chiton
 - B) gastropod
 - C) cephalopod
 - D) none of the above
- 4 A visceral peritoneum can be found in
 - A) coelomates
 - B) acoelomates
 - C) pseudocoelomates
 - D) all of the above
- 5 Which of the following is not characteristic of bilateral symmetry?
 - 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) snails

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

7 The digestive tube of the Phoronids is

- 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.

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

9 The molluscan radula is used for

- 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

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

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

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

12 Sexually, earthworms are

- 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) rostrum

- B)** prorostrum
- C)** osculum
- D)** operculum
- E)** rellium

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)** naiad
- 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) phoronids
- 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 Ectoprocts attach to rocks by means of

- A) cirri
- B) tentacles
- C) setae
- D) a zooecium
- 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
- 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
- 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.
- 31** The first segmented animals to evolve were:
- A)** rotifers
- B)** cephalopods
- C)** arthropods
- D)** echinoderms
- E)** annelids
- 32** Gastropods, cephalopods, and bivalves all share
- A)** a mantle
- B)** tentacles
- C)** a radula
- D)** torsion during development
- E)** an external shell
- 33** Which of the following is not a characteristic of most annelids?
- A)** nephridia
- B)** closed circulatory system
- C)** segmentation
- D)** pseudocoelom
- E)** setae
- 34** Which of the following belongs to the phylum Annelida?
- A)** polychaetes
- B)** gastropods
- C)** nematods

- D)** arthropods
- E)** cephalopods

35 The key evolutionary advance in annelids is

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

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