

Animal Phyla, Porifera

1. **Which of the following have many 'inlets' and a 'single outlet'.** (AIIMS2010)
a) Aurelia & Obelia b) Adamsia & Euplectella
c) Scypha & Cestum d) Leucopoenia & Scypha
2. **Canal system in Porifera is not concerned with** (AFMC 2005)
a) Respiration b) nutrition
c) Sexual reproduction d) none of the above
3. **During unfavourable conditions fresh water sponges form** (JIPMER2010)
a.cysts b.spores c.gemmules d. buds by fragmentation
4. **Which of the following cell type is capable of forming all other cell types in sponges** (2009)
a.thesocytes b.trophocytes c.collar cells d. archaeocytes.
5. **Food in Leucosolenia is stored in** (2006)
a. trophocyte b. thesocyte c. choanocyte d. pinacocyte
6. **What is left when bath sponges dryup:** (2004)
a. siliceous spicules b. spongin fibres c. calcareous spicules d.spicules and sponging
7. **The formation canal system in sponges is due to** (2003)
a. reproduction b. porous walls c.paragastric cavity d. folding of inner walls
8. **A sponge differs from all other metazoans in having** (2000)
a. nerve cells
b. absence of food
c.numerous mouthlets and one exit
d.diploblastic condition

CNIDARIA

9. **Which of the following is correct about nematocyst?** (AIIMS2001)
a. It can be reused
b. Its ejection is a conditioned reflex.
c. It is ejected on contact and pierce through prey
d. Due to which other Hydra does not come in contact with it
10. **Hydra can paralyses prey by** (AFMC20!!)
a. Nematocysts b. tentacles c. mouth d. none of these
11. **Ephyra is the stage in the life cycle of :** (AFMC 2009)
a. Physalia b. Obelia c. Aurelia d. Adamsia
12. **The characteristic larva of cnidarians is** (JIPMER2009)
a. planula b.Ephyra c.Strobila d.Hydra tuba

13. **Sea fan belongs to** (JIPMER2006)
a.Echinodermata b.Cnidaria c. mollusca d.Polychaeta
14. **Which of the following belongs to Anthozoa?** (JIPMER2001)
a.Dugesia b.Halistemna. c.Aurelia d.Fungia

CTENOPHORA

15. **Biradial symmetry and lack of cnidoblasts are the characteristics of** (AIPMT2006)
a. Ctenoplana & Convoluta
b. star fish & jelly fish
c. Ctenoplana & Beroe
d. Pleurobrachia & pennatula

PLATY HELMINTHES

16. **Excretory organs of flat worms are :** (AFMC 2002)
a.Malpighian tubules b.nephrons c.protonephridia d.nephridia
17. **Bladder worm stage of Taenia solium is :** (AFMC 2001)
a.rostellum b.strobila c.onchosphere d.cysticercus
18. **Fasciola hepatica lives in :** (AFMC 2000)
a. intestine of sheep b. liver of sheep c. blood of sheep d. spleen of sheep
19. **The intermediate host of Schistosoma is :** (JIPMER2009)
a.sheep b.snail c.mosquito d.house fly
20. **Turbellarians are free living** (JIPMER2009)
a.nematodes b. cestodes
c.trematodes d.flat worms
21. **In contrast to annelids Platyhelminthes show :** (JIPMER2007)
a. radial symmetry b.bilateral symmetry c.pseudocoel d.no body cavity.
22. **Which of the following does not have a gut :** (JIPMER2001)
a. round worm b. hook worm c. tape worm d. pin worm

NEMATODA

23. **Which of the following groups of animals are bilaterally symmetrical and triploblastic** (AIPMT2009)
a.Aschelminthes(round worms) b.ctenophores
c.parazoans d.cnidarians
24. **Life span of Ascaris is** (AFMC2010)
a. 3 to 6 months b.6 to 9months c.9 to 12 months d.12 to 13 months.
25. **In Nemathelminthes the body cavity which is not lined with peritoneum is called:**

(AFMC2004)

- a. acoelom b. pseudo coelom c. enterocoelom d. haemocoel
26. **Which of the following enters intestine by penetrating through skin of feet?** (AFMC2003)
a. hook worm b. pin worm c. round worm d. filarial worm.

ANNELIDA

27. **Which of the following is not a characteristic of Annelida?** (AIPMT2008)
a. pseudocoelom b. double ventral ganglionated nerve cord
c. closed circulatory system. d. metamerism.

28. **Which one of the following is a matching pair of a body feature and the animal possessing it?** (AIPMT2007)

- a. ventral central nervous system—leech
b. no pharyngeal gill slits in the embryo—Chaameleon
c. ventral heart- scorpion d. post anal tail—Octopus

29. **Which of the following has closed type of circulatory system?** (AFMC 2009)
a. Arthropoda b. Annelida c. Platyhelminthes d. Mollusca

30. **Leech secretes which of the following anticoagulant:**
A. heparin b. hirudin c. histamine d. serotonin.

31. **Which one of the following assists in locomotion of the animal stated?** (JIPMER2004)
a. epithelium of Pheretima b. Trichocysts of Paramecium
c. pedicellaria of star fish. d. posterior sucker of leech.

ARTHROPODA

32. **Which one of the following groups three animals each is correctly matched with one characteristic morphological feature?** (AIPMT2008)

Three animals

- a. scorpion, spider & cockroach
b. cockroach, Locust,
c. sea hare, sea anemone, sea cucumber
d. centipede, prawn, sea urchin

morphological feature

- Ventral solid central nervous system
Taenia metamerism
bilateral symmetry
jointed appendages.

33. **Which one of the following phyla is correctly matched with its two characteristics?** (AIPMT2008)

- a. Echinodermata—pentamerous radial symmetry and mostly internal fertilization.
b. Mollusca—normally oviparous and development is through a Trochophore or veliger
c. Arthropoda— body shows tagmosis and respiration by tracheae.
d. Chordata—notochord at some stage and separate anus and urinary openings.

34. **What is true about scorpion, sand worm, cockroach and silver fish.** (AIPMT2007)

35. a. They possess a dorsal heart. b. None of them is aquatic.
c. They all belong to the same phylum. d. They all have jointed paired appendages (AIPMT2006)
- 35. Matemerism is characteristic of:** (AIPMT2006)
- a.Mollusca and Chordata b.Platyhelminthes and Arthropoda
c.Echinodermata and Annelida. d.Annelida and Arthropoda.
36. **The two common characters found in centipede,cockroach and crab are:** (AIPMT2006)
- a.book lungs and antennae b.compound eyes and anal cerci
c.jointed legs and chitinous exoskeleton d.green gland and tracheae
37. **From the following statements, select the wrong one.** (AIPMT2005)
- a.Prawn has two pairs of antennae.
b.Nematocysts are characteristic of Cnidaria
c.Millipedes have two pairs of appendages per each segment of the body.
d.Animals belonging to Porifera are fresh water and marine.
38. **In Arthropoda ,head and thorax are often fused to form cephalothorax,but in which one of the following classes, is the body divided in to head , thorax and abdomen?(AIPMT2004)**
- a.Insecta b.Myriapoda c.Crustacea d.Arachnida and Crustacea
39. **Which one of the following is a matching pair of an animal and a certain phenomenon it exhibits :** (AIPMT2003)
- a.*Pheretima* –sexual dimorphism b.*Musca*-complete metamorphosis
c.Chemeleon-mimicry d.*Taenia*- polymorphism .
40. **Given below are 4matchings of an animal and its kind of resoiratory organ.(AIPMT2003)**
- A. silver fish-tracheae B.scorpion-book lung
C.sea squirt-pharyngeal gill slits D.Dolphin-skin.
The correct matchings are a.A&B b.A,B&C c.B&D d.C&D.
41. **The similarity between Ascaris lumbricoides and Anopheles stephensi is** (AIPMT2000)
- a.sexual dimorphism b.metamerism c.anaerobic respiration. d.endoparasitism..
42. **Which one of the following is common in silver fish,scorpion,dragon fly and prawn .:**
- a.Three pairs of legs and segmented body
b.chitinous cuticle and two pairs of antennae
c.jointed appendages and chitinous exoskeleton
d.Cephalo thorax and trachea
43. **Which of the following is common to leech, scorpion and cockroach is** (AIIMS2004)
- a. Nephridia b. ventral nerve cord c. cephalisation d. antennae
44. **Book lungs are respiratory organs of** (AFMC2009)
- a. Mollusca b. echinoderms
c. Arachnida d. annelids.
45. **Which of the following is not an arachnid?** (AFMC2007)
- a. Spider b. Itch mite c. Louse d. Tick
46. **Johnston’s organ is present in** (AFMC2007)
- a. antenna of an insect b. head of cockroach
c. abdomen of house fly d. abdomen of spider

47. **Bee's dance is meant for** (AFMC2001)
a. happiness b. communication
c. reproduction d. courtship
48. **Characters like hard exoskeleton, cephalothoraxes and gills for respiration are present in which of the following.** (AFMC 2000)
a.insecta b.Myriapoda c.Crustacea d.Polychaeta
49. **Which is common between earth worm, leech and centipede?** (JIPMER2010)
a. They have Malpighian tubules. b. They are hermaphrodites
c.They have ventral nerve cord d. none of the above.
50. **Malpighian tubules are :** (JIPMER2009)
a. Excretory organs of insects b. excretory organs of frog.
c respiratory organs of insects. d. endocrine glands of insects
51. **Class Crustacea differs from Insecta in having** (JIPMER2006)
a. Two pairs of antennae b. jointed feet c. chitinous cuticle d. noneof the above.
52. **The main excretory organ of prawn is** (JIPMER2005)
a. green gland b. flame cell c. Malpighian tubule d. nephridia

MOLLUSCA

53. **Which one of the following is a matching set of a Phylum and its three examples.** (AIPMT2006)
a.Porifera—Spongilla,Euplectella,Pennatula
b.Cnidaria----Bonnellia,Physalia,Aurelia
c.Platyhelminthes---Planaria,Schistosoma,Enterobius
d.Mollusca—Loligo,Teredo,Octopus
54. **Connecting link between Annelida and Mollusca:** (AFMC 2000)
a.Peripatus b.Neopilina c. Proterospongia d.Archaeopteryx
55. **Which of the following have eye structure nearest to that of vertebrates.** (AFMC2000)
a. insects b. myriapods c. cephalopods d. crustaceans
56. **Connecting link between Annelida and Mollusca is** (JIPMER2008, 10)
a.Neopilina b.Peripatus c.Periplaneta d.Limulus
56. **Shell of molluscs is derived from** (JIPMER2008, 10)
a.foot b.mantle c.ctenidium d. visceral mass
57. **In Mollusca eye is present over a stalk called.** (JIPMER2009)
a.ostracum b.operculum c. ommatophore d.osphradium
58. **Trochophore is the larva of** (JIPMER2006)
a.Neopilina b.Chiton c. Pila d.all the above

59. Mantle, foot and shell are characteristics of (JIPMER2005)
a. Nautilus b. Echinus c. Limulus d. Euplectella
60. What is the name of the class to which pearl oyster belongs to (JIPMER2000)
a. Cephalopoda b. Pelecypoda c. gastropoda d. Scaphopoda

ECHNODERMATA

61. The animals with bilateral symmetry in their larval stage and radial pentamerous symmetry in adult stage are (AIPMT2004)
a. Annelids b. molluscs c. cnidarians d. Echinoderms
62. Ambulacral grooves are absent in the living forms of (AIIMS2002)
a. Crinoidea b. Asteroidea c. Ophiuroidea d. all Euletherozoa
63. Coelom in Echinodermata is (AFMC2011)
a. pseudocoel b. haemocoel c. schizocoel d. enterocoel.
64. The echinoderms are: (JIPMER2010)
a. arboreal insects b. marine animals c. terrestrial forms d. fresh water forms.
65. Tube feet are the locomotory organs in: (JIPMER2011)
a. starfish b. jelly fish c. silver fish d. cuttle fish

Miscellaneous

66. Pheretima and its close relatives derive nourishment from (AIPMT 2012)
a) Sugar cane roots b) decomposing leaves and soil organic matter
c) Soil insects d) small pieces of fresh fallen leaves of maize
67. In which of the following the genus name, its two characters and its phylum are not correctly matched where as the remaining three are correct (AIPMT 2012)
a) *Pila* i) body segmented, ii) mouth with radula – Mollusca
b) *Asterias* i) spiny skinned, ii) water vascular system- Echinodermata
c) *Sycon* i) pore bearing ii) canal system - Porifera
d) *Periplanata* i) jointed appendages ii) chitinous exoskeleton – Arthropoda
68. Select the incorrect pair (JIPMER 2012)
a) Porifera - choanocytes
b) Coelenterata- nematocysts
c) Annelida - metamerism
d) Monera - Eukaryote

69. Bilateral symmetry, metamerism, coelom and open circulatory system are the features of
(JIPMER 2012)

- a) Annelida b) Arthropoda c) Mollusca d) Echinoderamata

70. Correctly matched set of phylum, class and example is

- a) Protozoa - Mastigophora – *Enatamoeba*
b) Mollusca - Bivalvia -*Pinctada*
c) Arthropoda- Diplopoda -*Scolopnedra*
d) Chordata – Cyclostomata- *Phrynosoma*

KEY FOR QS FROM AIPMT, AFMC, AIIMS & JIPMER

- 1)d 2)d 3)c 4)d 5)b 6)b 7)d 8)c 9)c 10)a
11)c 12)a 13)b 14)d 15)c 16)c 17)d 18)b 19)b 20)d
21)d 22)c 23)a 24)c 25)b 26)a 27)a 28)a 29)b 30)b
31)d 32)a 34)b 35)a 36)d 37)c 38)a 39)a 40)b 41)a
41)a 42)c 43)b 44)c 45)c 46)a 47)b 48)c 49)c 50)b
51)a 52)a 53)d 54)b 55)c 56)a 57)c 58)d 59)a 60)b
61)d 62)c 63)d 64)b 65)a 66)b 67)a 68)d 69)b 70)b