



success without stress

Combined Class Test (CCT) - 05

OCTOBER 26, 2017

Test Code: 05

Time allowed : 45 minutes.

Maximum marks : 180.

Instructions

- > There will be negative marking.
- > For each correct answer 4 marks will be given.
- > For each wrong answer 1 mark shall be deducted.
- Name, Batch and NTB I.D. must be written in the answer sheet.

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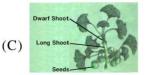
- 1. Study of four statements (a-d) given below and select the two correct ones out of them
 - In majority of higher plants and animals, growth and reproduction are mutually exclusive events
 - Photoperiod affects reproduction in seasonal breeders, both plants and animals
 - Systema Naturae was written by Aristotle
 - d. Systematics does not take into account evolutionary relationships between organisms
 - (A) a and b
- (B) b and c
- (C) c and d
- (D) a and d.
- 2. Identify the phylum 'a'

Animalia \rightarrow Organ system grade \rightarrow Bilateral \rightarrow Coelomate \rightarrow 'a'.

- (A) Platyhelminthes
- (B) Aschelminthes
- (C) Coelentrata
- (D) Annelida.
- Identify the correct pair of combination
 - Selaginella Homosporous Lycopsida
 - Filamentous Ectocarpus form Cholorophyll a and c
 - Laminaria Biflagellate gametes Haplo diplontic life cycle
 - d. Polytrichum Multiflagellate gametes Moss
 - (A) a and b
- (B) b and c
- (C) c and d
- (D) b and d.
- 4. Mycorrhizal association is found in







(D) All of the above.

- 5. Choose the correct statements with reference to sponges with reference to sponges
 - They are exclusively marine forms
 - Skeleton consists of spicules or spongin fibres
 - They are hermaphrodite in nature
 - d. Fertilisation is external
 - (A) b and d
- (B) b and c
- (C) a and c
- (D) a and b.
- Read the assertion and reason carefully to mark the correct option in question.
 - (A) If both assertion and reason are true and the reason is the correct explanation of the assertion
 - (B) If both assertion and reason are true but reason is not the correct explanation of the assertion
 - (C) If assertion is true but reason is false.
 - (D) If both assertion and reason are false.

Assertion: Urochordate's tadpole larva is more chordate - like than the adult.

Reason: Tadpole changes into an adult by retrogressive metamorphosis.

- 7. Fungus which is used extensively in biochemical and genetic work belongs to the class
 - (A) Phycomycetes
- (B) Ascomycetes
- (C) Basidiomycetes
- (D) Deuteromycetes.
- Match the columns and choose the right option

Column I

Column II

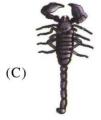
- Truffles
- Phycomycetes
- **Puffballs**
- ii. Ascomycetes
- Alternaria
- Deuteromycetes iii.
- Bread mould
- Basidiomycetes
- (A) i-b, ii-c, iii-d, iv-a
- (B) i-d, ii-a, iii-b, iv-c
- (C) i-d, ii-a, iii-c, iv-b (D) i-d, ii-b, iii-c, iv-a.
- Which of the following is a characteritic feature of gymnosperms



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- (A) The development of pollen grains take place within the microsporangia
- (B) Some gymnosperms are homosporous
- (C) The ovules are borne on megasporopylls which may be clustured to form the male cones
- (D) All of the above.
- 10. Consider the following statements with respect to angiosperms
 - a. They provide food, fodder, fuel and medicines to humans
 - b. They are divided into two classes
 - Each embryo sac has a seven-celled egg apparatus
 - The female sex organ in a flower is called stamen. Of the above statements which are correct
 - (A) a and c
- (B) b and d
- (C) a and b
- (D) b and c
- 11. Which is a gregarious pest









- 12. Read the assertion and reason carefully to mark the correct option in question.
 - (A) If both assertion and reason are true and the reason is the correct explanation of the assertion
 - (B) If both assertion and reason are true but reason is not the correct explanation of the assertion
 - (C) If assertion is true but reason is false.

(D) If both assertion and reason are false.

Assertion: Blood does not clot while leech is sucking it.

Reason: An anticoagulant hirudin from the salivary glands checks blood clotting.

- 13. Nephridia of earthworm help in
 - (a) Digestion
- (b) Excretion
- (c) Osmoregulation
- (d) Reproduction.
- (A) a and are correct
- (B) b and c are correct
- (C) c and d are correct
- (D) b and d are correct.
- 14. Read the statements regarding molluscs and choose the correct option.
 - a. They are both marine and fresh water animals
 - b. Body is covered by calcareous shell
 - c. Body is segmented with a distinct head, muscular foot and visceral hump
 - d. They are usually monoecious and oviparous with indirect development
 - (A) a and b
- (B) b and c
- (C) c and d
- (D) b and d.
- 15. Select the wrong statement
 - (A) Influenza and herpes in heman beings is caused by viruses
 - (B) Potato spindle tuber disease is caused by viroids
 - (C) White spots ween on mustard leaves are due to sac fungi
 - (D) Wheat rust is caused by fungus Puccinia.
- 16. Which of the following is a partially heterotrophic plant
 - (A) Equisetum
- (B) Venus fly trap
- (C) Ginkgo
- (D) Polysiphonia.
- 17. Presence of pyrenoid is characteritic feature of



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- (A) Chara
- (B) Laminaria
- (C) Gracilaria
- (D) Kelp.
- 18. Match the columns and find the correct option

Column I

Column II

- (a) Radula
- 1. Ophiura
- (b) Parapodia
- 2. Pleurobrachia
- (c) Proboscis gland
- 3. Loligo
- (d) Water vascular system 4. Nereis
- (e) Bioluminescence
- 5. Saccoglossus
- (A) a-2, b-3, c-5, d-1, e-4
- (B) a-5, b-2, c-1, d-4, e-3
- (C) a-3, b-4, c-5, d-1, e-2
- (D) a-3, b-4, c-5, d-2, e-1.
- 19. Read the assertion and reason carefully to mark the correct option in question.
 - (A) If both assertion and reason are true and the reason is the correct explanation of the assertion
 - (B) If both assertion and reason are true but reason is not the correct explanation of the assertion
 - (C) If assertion is true but reason is false.
 - (D) If both assertion and reason are false.

Assertion: The protozoans are belived of be primitive relatives of fungi.

Reason: Protozoans are heterotrophs and live as predators or saprophytes.

- 20. As per whittaker's classification, an organism possessing eukaryotic cell structure, multicellular organisation without a cell wall and nuclear membrane showing heterotrophic nutrition can be placed under the kingdom
 - (A) Protista
- (B) Fungi
- (C) Plantae
- (D) Animalia.
- 21. Which one is an example of living fossil
 - (A) King cobra
- (B) King crab
- (C) Queen bee
- (D) Locust.

22. Select the incorrect option about the given figure



- (A) Triploblastic nature
- (B) Respiration by gills
- (C) Closed type circulatory system
- (D) Fertilisation is external.
- 23. What is common in *Polytrichum*, *Psilotum* and *Pinus*
 - (A) Independent sporophyte
 - (B) Independent gametophyte
 - (C) Antheridia
 - (D) Archegonia.
- 24. Find out the incorrect match
 - (A) Lateral appendages in aquatic annelids Parapodia
 - (B) Free floating form of cnidaria Medusa
 - (C) Stinging organ of sea fan Radula
 - (D) Blood filled cavity in arthropods Haemocoel.
- 25. Homo sapiens belongs to sub-phylum
 - (A) Mammalia
- (B) Vertebrata
- (C) Chordata
- (D) Tetrapoda.
- 26. Orange rot is due to
 - (A) Bacteria
- (B) Fungi
- (C) Virus
- (D) Viroid.
- 27. In which of the following organisms, the adult shous radial symmetry while the larva has bilateral symmetry



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- (A) Aplysia
- (B) Echinus
- (C) Salpa
- (D) Physalia.
- 28. Incomplete digestive system is found in
 - (A) Liver fluke
 - (B) Hookworm
 - (C) Blood sucking leech
 - (D) King crab.
- 29. Read the assertion and reason carefully to mark the correct option in question.
 - (A) If both assertion and reason are true and the reason is the correct explanation of the assertion
 - (B) If both assertion and reason are true but reason is not the correct explanation of the assertion
 - (C) If assertion is true but reason is false.
 - (D) If both assertion and reason are false.

Assertion: Branchiostoma and Balanoglossus are bilaterally symmetrical and triploblastic animals.

Reason: They are exclusively marine and posses notochord.

30. Given figure belongs to phylum



- (A) Vertebrata
- (B) Urochordata
- (C) Chordata
- (D) Cephalochordata.

- 31. Cellular level of body organisation is found in
 - (A) Monera
 - (B) Protista
 - (C) Porifera
 - (D) All of the above.
- 32. Find out the odd one
 - (A) Bombyx
 - (B) Laccifer
 - (C) Limulus
 - (D) Apis.
- 33. Find the wrongly matched pair-
 - (A) Radula Feeding
 - (B) Cnidoblast Anchorage
 - (C) Air bladder Defense
 - (D) Flame cells Excretion.
- 34. Which suffix in used in the name of animal family
 - (A) -aceae
- (B) -oidae
- (C) -idae
- (D) -inae.
- 35. The members of which of the following subphylum are exlusively marine
 - (A) Ctenophora
 - (B) Echinodermata
 - (C) Urochordata
 - (D) All of the above.
- 36. Non-chordates differ form chordates in having
 - (A) Notochord
 - (B) Pharyngeal gill slits
 - (C) Dorsal hollow nerve cord
 - (D) None of the above.
- 37. *Trichoderma* is an example of which of the following kingdom
 - (A) Ascomycetes
 - (B) Basidiomycetes
 - (C) Deuteromycetes
 - (D) Fungi.



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38. Match the columns and find the correct combination

Column I

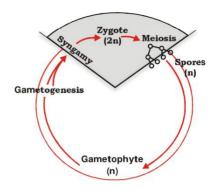
Column II

- Organ system level 1. Spongilla
- Cellular level b.
- 2. Teania
- Tissue level
- 3. Ancylostoma
- Organ level d.
- 4. Dentalium
- (A) a-2, b-1, c-4, d-3
- (B) a-3, b-4, c-1, d-2
- (C) a-4, b-1, c-2, d-3 (D) a-4, b-1, c-3, d-2.
- 39. The leaves of fern plants are called
 - (A) Microphylls
- (B) Macrophylls
- (C) Sporophylls
- (D) Cataphylls.
- 40. The tallest tree species of gymnosperm is
 - (A) Wolfia
- (B) Cedrus
- (C) Sequoia
- (D) Eucalyptus.
- 41. Read the assertion and reason carefully to mark the correct option in question
 - (A) If both assertion and reason are true and the reason is the correct explanation of the assertion
 - (B) If both assertion and reason are true but reason is not the correct explanation of the assertion
 - (C) If assertion is true but reason is false.
 - (D) If both assertion and reason are false.

Assertion: In *Pleurobrachia*, eight comb like ciliary plates called comb plates are present on the body that help in locomotion.

Reason: Pleurobrachia reproduces sexually and its life cycle includes cydippid larva.

- 42. Notochord is present only in larval tail in
 - (A) Urochordata
 - (B) Cephalochardata
 - (C) Protochordata
 - (D) Vertebrata.
- 43. This type of life cycle is found in



- (A) Fucus
- (B) Polysiphonia
- (C) Volvox
- (D) Gymnosperm.
- 44. Which is not a character of chordates
 - (A) Dorsal notochord
 - (B) Dorsal central nervous system
 - (C) Dorsal heart
 - (D) Post-anal tail.
- 45. One of the representative of subphylum cephalochordata
 - (A) Lancelet
 - (B) Branchiostomata
 - (C) Doliolum
 - (D) Both A and B.

Your Next CCT held on November 09, 2017

:: Topic **:: Chapter-1 to Chapter-5**