



IITJEE Foundation Practice paper

DIVERSITY IN LIVING ORGANISMS

class-9-Science Number of Questions: 79

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1

Why is that amphibians are more advanced than fishes?

- Due to the presence of a three chambered heart
- Due to the presence of lungs for respiration
- Both A and B
- Amphibians and fishes are equally advanced

2

Whales are not grouped with fishes because:

- They have a four chambered heart
- They respire with their lungs
- They have mammary glands
- All of these

3

Which phylum contains the greatest number of species of animals?

- Chordata
- Mollusca
- Porifera
- Arthropoda

4

Why is it that out of all animals, only birds can fly?

- Since they have a thin, moist, glandular and respiratory skin
- Due to the presence of air sacs that help in double respiration
- They have lungs for breathing and feathers to help them fly
- All of the above

5

Which of the following is not an adaptation in birds for flight?

- They have air sacs that help in double respiration
- They have a four chambered heart
- They have an acute vision
- They have developed flight muscles

6

Which of the following organisms has two chambered heart?

- Toad Ostrich Rohu Lizard

7

Homo sapiens is the scientific name for:

- Cat Human being Monkey Dog

8

The term 'species' was coined by:

- Linnaeus John Ray Aristotle None

9

Which of the following plant parts has been modified as a needle-shaped structure in a pinus plant?

- Leaf Root Stem Shoot

10

What is the most striking feature of the organisms in phylum Arthropod?

- They are single eyed They have joint legs for locomotion
 They have a closed circulatory system None of these

11

Which of the following is right about an earthworm?

- It is bisexual and shows self fertilization It is bisexual and shows cross-fertilization
 It is unisexual and shows cross-fertilization
 It is unisexual and shows self fertilization

12

Which of the following does a bat have, that is not present in a bird?

- Homeothermy A four-chambered heart Tracheae Diaphragm

13

A group of similar living organisms which breed freely among

themselves constitute a:

- Species Family Order Genus

14

The five kingdom classification of organisms was proposed by:

- Whittaker John Ray Aristotle Charles Darwin

15

When O_3 reacts with _____, it is converted into O_2 and [O]. ([O] is nascent oxygen)

- Infrared radiations Ultraviolet radiations Gamma radiations
 Cosmic radiations

16

In which kingdom will you place an organism which is multi cellular, eukaryotic, heterotrophic, lacks chlorophyll and ingests its food?

- Animalia Protista Monera Plantae

17

According to the five-kingdom classification, which kingdom contains organisms whose structure is composed of prokaryotic cells?

- Plantae Animalia Monera Protista

18

What are the plants which produce naked seeds called?

- Gymnosperms Cryptogams Angiosperms Phanerogams

19

Why are bats and whales classified as mammals?

- They have a four chambered heart They have fore limbs They lay eggs
 They are cold -blooded

20

Which of the following statements is incorrect?

- All green plants and blue green algae are producers
- Green plants get their food from readymade organic-compounds
- Producers prepare their own food by synthesizing organic compounds
- Plants convert solar energy into chemical energy

21

Which of the following taxa shows zooidogamous oogamy?

- Spirogyra
- Funaria
- Pteris
- Cycas

22

Choose the correct statement:

- Apophysis is the base part of the capsule in Funaria
- Apophysis is the apical sterile part of the microsporophyll in cycas
- Apospory is the development of sporophyte from vegetative cells of the gametophyte
- Gametophyte is the development of gametophyte from the vegetative cells of the sporophyte

23

Prathima said "mushroom is also a plant" is the statement true or false? how would you support her?

- She is correct
- She is not correct
- It is hard to describe
- None of the above

24

The animals without a back bone are called as

- Invertebrates
- Eutherians
- Chordates
- Protists

25

The physical appearance and characteristics of an organism also the science of the study of physical characteristics is called as

- Taxonomy
- Pathology
- Morphology
- Ornithology

26

The science of classification of living organisms is called

- Demography
- Taxonomy
- Biology
- None of these

27

Who is the father of taxonomy?

- Carolus linnaeus Charles Darwin E.H.Hallkel Robert Whittaker

28

On what basis living organisms are classified?

- Appearance and behaviour life span of living organisms Form and function
 Both A and C

29

Study of evidences of past life

- Archaeology Palaeontology Palaeobotony Evolution

30

Panthera Tigris (tiger) belongs to which order?

- Carnivora Mammalia Felidae Primata

31

Male Ascaris can be distinguished from female Ascaris by

- Round shape Presence of penial spicules Both B and D
 Curved posterior end

32

Podia means

- Head tentacles reproductive organ foot

33

The characteristic feature of phylum arthropode is _____

- segmented body jointed legs spiny-skinned hollow gut

34

Presence of segmented soft body with a calcareous shell,ventral foot and mantel is a characteristic of phylum

- spirogyra Echinodermata mollusca Pisces

35

Which region of the earth is called the region of mega diversity?

- Antratica Tropic of cancer and tropic of capricorn Both A and B None

36

Some students wants to prepare a temporary mount of spirogyra. Where should they search for fresh specimen?

- In a pond and salty water In a stream of fresh water In a stream of salty water
 In a pond with stagnant water

37

Among the following options which one is a true fish?

- Jelly fish Star fish Dog fish Silver fish

38

Name the phyla in which circulatory system is open and body cavity is filled with blood.

- Mollusca Coelenterates Arthropod Both A and C

39

How many cervical vertebrate are found in mammals?

- 7 9 5 10

40

Which of the following classes have cold blooded animals?

- Amphibian and pisces Reptiles and aves Arthropod and Amphibian
 Amphibian and Aves

41

Which of the given feature is common among ostrich, penguin and kiwi?

- Running Migration Four toed Flightless

42

What is the scientific name of national bird of India?

- Corvus splendens Psittacula eupatria Passer domesticus Pavo cristatus

43

Name the organism in which asexual reproduction takes place by budding.

- Star fish Spongilla Euspongia Hydra

44

In which class of angiosperm leaves show parallel venation?

- Monocot Dicot Both A & B None of these

45

Amphibians of plant kingdom are

- Fungi Pteridophytes Algae Bryophytes

46

What kind of circulatory system is found in animals of phylum Mollusca?

- Closed circulatory system Open circulatory system
 Semi open circulatory system Both A and B

47

Which of the following is an Arthropod?

- Butterfly Octopus Bats Whales

48

Which is that mammal, that lays eggs?

- Dolphin Bat Platypus Bear

49

What is the scientific name of ostrich?

- Ciconia ciconia Aythya fuligula Struthio camelus Corvus splendens

50

Apart from lungs and gills, which other feature in frogs helps them live on land, water and underground?

- Heart Kidneys Moist skin Long tongue

51

Which of the following plants act like 'scavengers of nature'?

- Insectivorous plants Saprophytes Carnivorous plants Symbiotic plants

52

Which of the following organisms is a saprophyte?

- Cuscuta Green plants Mushrooms Drosera

53

Krishna and Hari observed an animal in their garden. Hari called it an insect while Krishna said it was an earthworm. What in the animal would Krishna have observed, to call it an insect?

- A bilateral symmetrical body Body with jointed legs Cylindrical body
 Body with little segmentation

54

What is the structure of chloroplasts in spirogyra?

- Spiral and ribbon shaped Spiral and circular shaped Cup-shaped
 None of these

55

Which of the following the amphibians of the plant kingdom?

- Gymnosperms Algae Bryophytes Pteridophytes

56

Select the odd one out with respect to classification.

- Mango Gram Rice Apple

57

Select the odd one out with respect to the classification.

- Prawn Scorpion Octopus Butterfly

58

What would happen if all the oxygen present in the environment is converted to ozone?

- We would be better protected from the UV rays of the sun
 The air can get highly poisonous, thus destroying all life forms
 Ozone is unstable, it will get converted back into oxygen
 The UV rays of the sun will enter the earth easily, and will damage many life forms

59

The scientific name of common wheat is:

- Oryza sativa* *Canis lupus* *Azadirachta indica* *Triticum aestivum*

60

In which phylum, does the nervous system develop for the first time:

- Coelenterates Porifera Annelida Echinodermata

61

Pinna is characteristic feature of:

- Aves Arachnida Echinodermata Mammalia

62

Which of the following organisms have a dicondylic skull?

- Amphibians and reptiles Amphibians and platyhelminthes
 Amphibians and mammals Mammals and Nematoda

63

The branch of science concerned with the classification and naming of organisms is known as:

- Taxonomy Entomology Ornithology Astronomy

64

Which is the plant structure, that helps bryophytes attach to the substratum?

- Seta Thallus Rhizoid Capsule

65

How many fingers do archaea have?

- Four fingers Five fingers Three fingers No finger

66

Solanum tuberosum is the scientific name of _____

- Wheat Tomato Potato Paramecium

67

Eukaryotic, non-green organisms with cell wall made up of a tough complex sugar called chitin; belong to:

- Kingdom Monera Kingdom Protista Kingdom Fungi Kingdom Plantae

68

Which of the following are bryophytes?

- Yeast and Mushroom Spirogyra and cladophora Euglena and Amoeba
 Moss and Liverworts

69

The phylum wherein the plant body bears pores and does not have true tissues is:

- Porifera Arthropoda Mollusca Echinodermata

70

Hermaphrodites are the organisms having:

- A hard endoskeleton Hard materials covering their body surface
 Both male and female reproductive organs in the same individual
 Water vascular system for locomotion

71

The organisms feed on decaying organic materials are called:

- Heterophytes Saprophytes Parasites Omnivores

72

Pisum sativum is the scientific name of:

- Wheat Pea Sun hemp Potato

73

Respiration through gills and presence of fins instead of limbs, is the characteristic feature of

- Class Pisces Class Mammalia Class Reptilia Class Aves

74

The organism that does not fit among the other organisms is?

- Scorpion Cockroach Spider Earthworm

75

Which of the following organisms possesses holes or pores all over its body?

- Sycon Tapeworm Hydra Liverfluke

76

Which of the following gases do methanogens produce during the process of metabolism, in aerobic conditions?

- Oxygen Carbon dioxide Methane Ammonia

77

One of the most famous and successful works of Carolus Linnaeus is:

- Historia generalis plantarum Species Plantarum Origin of new species
 Systema Naturae

78

Which of the following has been arranged in the increasing hierarchy of classification, correctly?

- Kingdom, Class, Phylum, Order, Family, Species, Genus
 Species, Genus, Family, Order, Class, Phylum, Kingdom
 Kingdom, Phylum, Order, Class, Family, Species, Genus
 Genus, Species, Order, Family, Class, Phylum, Kingdom

79

A diploblastic organism is the organism:

- Whose body is divided into two parts
- Whose body has two germ layers
- Which has two sets of teeth
- Which has a pair of eyes

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