



VIVEK TUTORIALS

X (English)

(Special Test)

Science And Technology - II-(1 to 10 ALL)

DATE: 25-02-19

TIME: 1 Hr

MARKS: 100

SEAT NO:

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Q.1 Fill in the blank and rewrite the completed statements

14

- 1 Class include cold blooded (Poikilotherms) aquatic animals living in marine and fresh waters.
- 2 is second largest phylum in animal kingdom.
- 3 Hydra uses regenerative cells for reproduction in the process of
- 4 Presence of glands is typical character of mammalia.
- 5 Animals without a body cavity are called
- 6 is the gradual change occurring in living organisms over a long duration.
- 7 Along with emission of gases, burning coal also releases particles into the environment.
- 8 Cleaning of Oil Spillage in Oceans with the help of oil-digesting and fast multiplying bacteria, this concept was given by
- 9 The substances formed by specific chemical bond between fatty acids and alcohol are called as
- 10 Electric power plants are based on the principle of
- 11 like chemicals are mixed with soil due to use of chemical pesticides in agriculture.
- 12 In body, there is no any imaginary axis of the body through which we can get two equal halves.
- 13 When the cytoplasm divides in telophase, the two new cells formed are called as cells.
- 14 Yeast reproduces by

Q.2 Find the odd one out

12

- 1 Wind, Water, Charcoal, Sunlight
- 2 Rickets, Night blindness, Beriberi, Anemia
- 3 Problems arising due to radiation of cell phones leads to all but - Headache, Insomnia, Forgetfulness, Good vision
- 4 Energy by charcoal, Energy by nuclear fission, Energy by natural gas, Energy by biogas
- 5 Phylum-Platyhelminthes - Earthworm, Planaria, Liverfluke, Tapeworm
- 6 DDT, Malathion, Chloropyriphos, Humus
- 7 Planaria, Yeast, Euglena, Amoeba
- 8 Syphilis, Leprosy, Gonorrhea, AIDS
- 9 Water cycle, Nitrogen cycle, Oxygen cycle, Carbon cycle
- 10 Bovis Vibrio, Ideonella Sakaiensis

- 11 All are true about the IT act 2000 except -
 This act has been enacted since 17th October 2008.
 Punishment includes 3 years of imprisonment and fine upto 5 lakhs.
 Maharashtra is the first state to start a separate cyber crime unit.
 This act has been enacted since 17th October 2000 & amendment was made in 2008.

12 Stigma, Style, Anther, Ovary

Q.3 Find co-related terms

12

- 1 RNA : Uracil :: DNA :
- 2 Sepal : Calyx :: Petals :
- 3 RNA to proteins : Translation :: DNA to mRNA :
- 4 IUCN : International Union for Conservation of Nature :: IPCC :
- 5 Solar cells : DC power :: Inverter :
- 6 Non-conventional : Biogas :: Conventional :
- 7 Ovaries : Estrogen :: Testes :
- 8 Biomedical Waste Rule: 1998 :: E-waste Rule:
- 9 Endangered species : Lesser florican :: Indeterminate species :
- 10 Jaggae : Carbohydrates :: egg :
- 11 Jelly fish : Medusa :: Sea anemone :
- 12 More than one plane of body Symmetry: Radial :: Single plane of body symmetry:

Q.4 Find out the difference between the following

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- 1 Asexual and Sexual Reproduction
- 2 Binary fission and Multiple fission
- 3 Cytokinesis and Karyokinesis
- 4 Self-pollination and Cross pollination
- 5 Ecology and Biodiversity
- 6 Mitosis and Meiosis

Q.5 State True or False

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- 1 22nd May is the World Environment Day.
- 2 In Saccoglossus, notochord is present in proboscis and collar.
- 3 Formation of zygote by union of sperm and ovum is called as fertilization.
- 4 Biofuel is renewable sources of energy
- 5 Study of fossils is an important aspect of study of evolution.
- 6 Combustion of fossil fuels lead to environmental degradation.
- 7 Disaster has no effect on the economy of the nation.

- 8 Fertilization takes place in the uterus.
- 9 The occurrence of diversity among the organisms of same species is called genetic diversity.
- 10 Resurrection is a stage used for the welfare and rehabilitation of the nation.
- 11 Siamese twins are born with some parts of body joined to each other.
- 12 Disasters can be predicted, thus giving time us to take precautions.
- 13 Land filling sites are lands in which are garbage from cities is dumper
- 14 Due to use of bio-fertilizers instead of chemical fertilizers, nitrogen fixation and phosphate solubilization abilities of the plants are improved.

Q.6 Name the following

12

- 1 Enumerate the factors disturbing the social health.
- 2 Name the two types of Coelomates.
- 3 Explain the meaning of following symbols.



- 4 The habitats of two animals that are under threats in Assam.
- 5 Name two elements used in nuclear fission.
- 6 Give Examples : International Environment Organizations.
- 7 Which are the important life processes in living organisms ?
- 8 Father of white revolution in India -
- 9 The phase in which rehabilitation work is started after the subsidence of any type of disaster.
- 10 Any two organism with Calcareous spines.
- 11 Name the element used in solar cells.
- 12 Which life processes are essential for production of energy required by body ?

Q.7 Explain the statement/ law/ definition.

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- 1 Benefits of animal classification.
 - 2 Though tortoise lives on land and in water it can not be included in class Amphibian.
 - 3 Define Industrial Microbiology
 - 4 Define Applied Microbiology
 - 5 Earthworms belong to phylum Annelid and is a terrestrial free-living organism.
- Or

Earthworms are called friends of farmer.

- 6 Define Bioinsecticides
- 7 Define Antibiotics
- 8 Explain with the help of examples Sub phylum-Urochordata.
- 9 What criteria are used to divide glassily animals ?
- 10 Define Hydrocarbonablastic Bacteria (HCB)