



## BIOLOGY

### BOOKS - NTA MOCK TESTS

#### NTA NEET SET 69

#### Biology

1. In Funaria , which of the following represents the juvenile state

A. Prothallus

B. Protonema

C. Capsule

D. All

**Answer: B**



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2. An animal is hiding itself in the background surrounding. This phenomenon is

A. Camouflage

B. Mutation

C. Altruism

D. Mutualism

**Answer: A**



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3. Identify the factor that will inhibit the absorption of water by roots

A. Optimum soil temperature

B. Availability of water

C. Presence of air pockets in soil

D. Increased salinity

**Answer: D**



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4. At the time of Fertilization , the egg apparatus of a female gametophytes of a typical dicot plants is -

A. 8-celled

B. 7-celled

C. 3-celled

D. 2-celled

**Answer: B**



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5. Select the pair of Marine water variety for fish

A. Rohu and catla

B. Common carp and mackerel

C. Rohu and pomfret

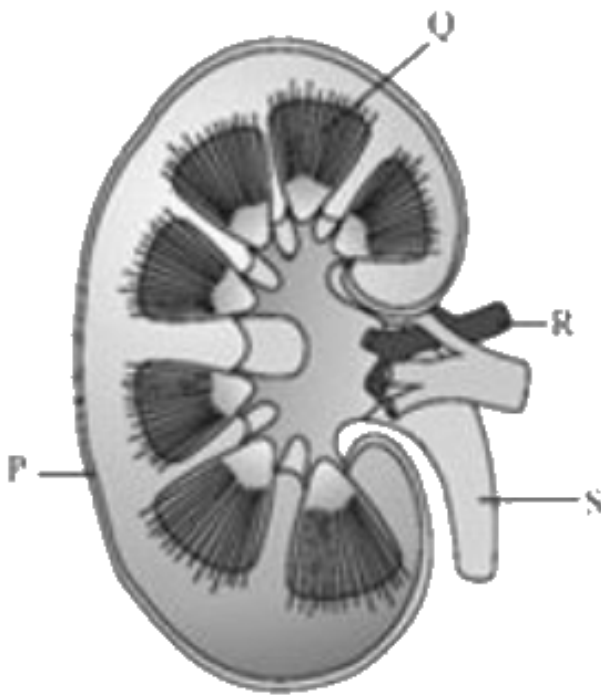
D. Sardines and pomfret

**Answer: D**



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**6.** Longitudinal section of human kidney is shown select the incorrect match .



A. P - Renal capsule

B. S - It collects the urine from the renal pelvis .

C. Q - Loop of Henle is found in this region

D. R - It collects deoxygenated blood from the  
nephrons

**Answer: D**



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7. Statement A - Typical angiosperm embryo develops near to the micropylar end of the embryosac.

Statement B - Coleorrhiza encloses radical and the root cap.



- A. Only Statement A is correct.
- B. Only Statement B is correct.
- C. Both Statements A and B are correct
- D. Both Statements A and B are incorrect.

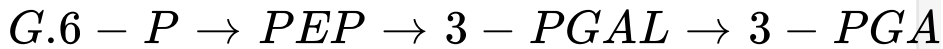
**Answer: C**



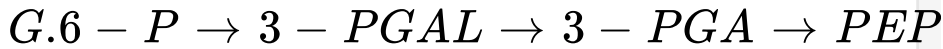
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**8. Which of the following is the correct sequence of glycolysis ?**

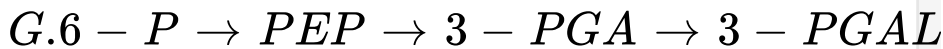
A.



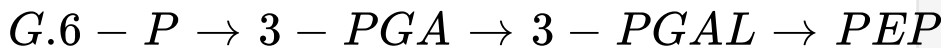
B.



C.



D.



**Answer: B**



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9. Which of the following is not the task under the Reproductive and child health care (RCH) program ?

A. Providing facilities to build up a reproductively healthy society .

B. Awareness regarding contraceptive measures.

C. Creating awareness regarding reproduction-related aspects.

D. Awareness regarding water borne disease.

**Answer: D**



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**10.** The hormone that induces apical dominance and the hormone that acts as an antagonist to this process is

A. IAA and ethylene

B. NAA and Zeatin

C. IBA and NAA

D. Kinetin and BAP

**Answer: B**



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**11.** Transfer of an ovum (gamete) from a donor into the fallopian tube of another female who cannot produce gametes is termed as

- A. Intracytoplasmic sperm injection
- B. Gamete intra fallopian transfer
- C. Artificial insemination

D. In vitro fertilization (IVF) followed by embryo transfer (ET)

**Answer: B**



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**12.** An asexual structure is shown in the given diagram. in which of the following are organism

,the given structure is found ?



A. Apergillus

B. Hydra

C. Volvox

D. Sponge.

**Answer: D**



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**13. Perimetrium layer of the uterus is**

- A. Thin and muscular
- B. Thick and glandular
- C. Thin and membranous
- D. Thin and fibrous

**Answer: C**



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14. Which light is absorbed more by Chlorophyll 'a'?

- A. Yellow and green
- B. Red and blue
- C. Yellow and Orange
- D. Yellow and red

**Answer: B**



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**15.** Select the incorrect statement.

- A. The lumen of seminiferous tubule contains Leydig cells which secrete testosterone
- B. Testicular hormones are called androgens
- C. In human , testes are extra - abdominal
- D. Spermatogonium undergo mitotic divisions

**Answer: A**



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16. Where is the water - splitting complex associated with PS - II situated ?

A. Inner side of outer membrane of chloroplast

B. Outer side of thylakoid membrane

C. Outer side of outer membrane of  
Chloroplast

D. Inner side of thylakoid membrane

**Answer: D**



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17. Choose the incorrect match.

A. Copulatory organ in male : Penis

B. Male accessory gland : seminal vesicles

C. Bulbovestibular gland : Bartholin's glands

D. Scrotum : Non hairy skin bag

**Answer: D**



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18. At how many place in kreb's cycle from pyruvic acid , the enzyme dehydrogenases are involved ?

A. 3

B. 4

C. 5

D. 6

**Answer: C**



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19. Which of the following statements is incorrect after the industrial revolution that has occurred in England ?

A. Dark coloured Peppered moth is more in urban area

B. Light coloured Peppered moth is more in rural area

C. No variant is completely wiped out

D. All of the above

**Answer: D**



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20. Measurement and the comparison of total growth per unit time is known as

- A. Absolute growth rate
- B. Relative growth rate
- C. Both ( a) and (b)
- D. None of these

**Answer: A**



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21. Select the incorrect information .

A. Australopithecus - Lived in East African grasslands.

B. Ramapithecus - It was more ape like.

C. Neanderthal Man - Believed in burial customs .

D. Homo habilis - Cranial capacity = 650- 800 cc

**Answer: B**



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22. Which of the following is the monomer of insulin ?

A. Fructose

B. Amino acids

C. Glucose

D. Galactose

**Answer: A**



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23. Select the bacteria which converts the ammonia to nitrite ?

A. Nitrobacter only

B. Nitrosomonas and Nitrobacter

C. Nitrosomonas only

D. Nitrosomonas and Nitrosococcus .

**Answer: D**



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24. Which scientist /working is not matched correctly with its work / contribution ?

A. Oparin and Haldane - Given most acceptable theory for origin of life .

B. Charles Darwin - Given most acceptable theory for evolution of life .

C. Thomas Malthus - He has written Assay on population .

D. Hugo de Vries - Gave the theory of germplasm .

**Answer: D**



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**25. What is correct about living state ?**

- A. Non-equilibrium , steady state
- B. Equilibrium , non-steady state
- C. Non-equilibrium non-steady state
- D. Equilibrium, steady state

**Answer: A**



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26. Left systemic arch is absent in

- A. Reptiles only
- B. mammals only
- C. birds only
- D. both birds and animals

**Answer: C**



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27. Roots absorb the minerals from the soil in the form of

A. ions

B. molecules

C. Very dilute solution

D. Very concentrated solution

**Answer: A**



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28. The sense organs like eyes , statocysts , and osphradia are present in

A. porifera

B. Arthropods

C. Mollusca

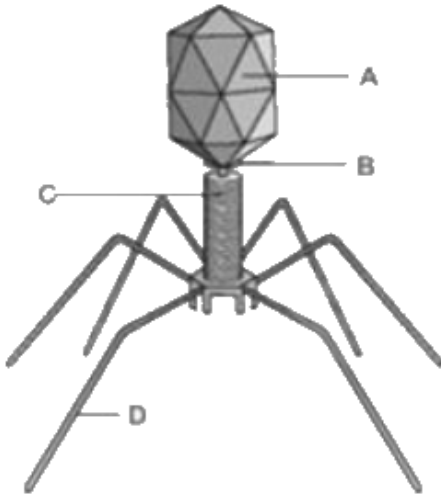
D. Chordata

**Answer: C**



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29. In the given diagram of bacteriophage, A - D are labelled . Select the correct information ?



A. B - Collar D - Tail fibres

B. C - sheath , A - collar .

C. A - Head , B - Tail fibres



D. A, - Head , B - Sheath

**Answer: A**



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**30.** Rust disease is caused by fungi belonging to

A. Deuteromycetes

B. Basidiomycetes

C. Fungi imperfect

D. Ascomycetes

**Answer: B**



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**31.** A gram (+Ve) bacteria differs from a Gram (-ve) bacteria because of

- A. Cell membrane
- B. Cytoplasm
- C. Flagellar
- D. Cell wall

**Answer: D**



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**32.** Select the incorrect statement.

- A. Benign tumors lack contact inhibition.
- B. Monitoring the blood banks reduces the chances of spreading AIDS .
- C. Opioids are obtained from poppy plant.
- D. CT scanning is commonly used as a diagnostic test for detecting AIDS.

**Answer: D**



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**33.** Typically , gymnosperms lack

- A. Xylem vessels but sieve tubes are present
- B. Tracheids and sieve tubes but companion cells are present
- C. Vessels , sieve tubes and companion cells
- D. Tracheids and companion cells

**Answer: C**



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**34.** What is the term for the development of an egg without Fertilization to form an embryo ?

- A. Apomixis
- B. Parthenogenesis
- C. Polyembryony
- D. Parthenocarpy

**Answer: B**



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**35.** The assembly of spindle and disappearance of the nucleolus and nuclear envelope occurs in

A. Metaphase - II

B. Telophase - I

C. Anaphase - II

D. Prophase - II

**Answer: D**



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36. Which of the following features is incorrectly described for prokaryotic cell in comparison to a eukaryotic cell ?

- |    | Feature        | Description          |
|----|----------------|----------------------|
| A. | Cell size      | smaller              |
| B. | Multiplication | slow                 |
| C. | Ribosomes      | 70s, instead of 80 s |
| D. | Centrioles     | absent               |

**Answer: B**



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37. Which of the following is the most common use of morphine ?

A. Sedative and pain killer

B. Hallucinogen .

C. Depressant

D. Anti depressant

**Answer: A**



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38. During the dark reaction, 3 - PGA is derived from

- A. RuBP only
- B.  $CO_2$  only
- C. RuBP +  $CO_2$
- D. RuBP +  $CO_2$ +PEP

**Answer: C**



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**39.** How many of the following cell organelles are bound by a single membrane ? Mitochondria, Lysosome, peroxisome , Golgi body, Nucleus , Nucleolus, ER , Spherosome , Ribosomes

A. 6

B. 7

C. 5

D. 4

**Answer: C**



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**40.** Which of the following results in high content of carboxyhaemoglobin in blood ?

A. Smoking and alcohol

B. Alcohol

C. Cannabinoids

D. Smoking but not alcohol

**Answer: D**



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**41.** Identify the features present in meiosis but absent in mitosis .

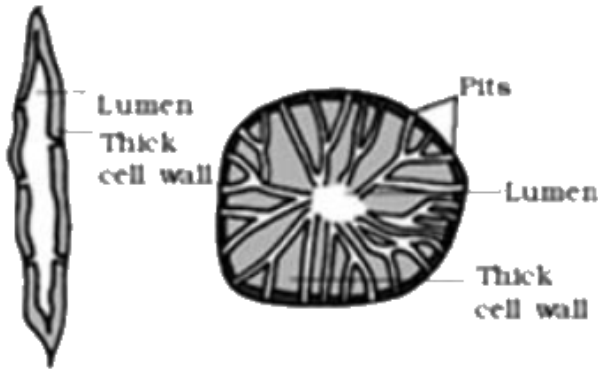
- A. Pairing of non-homologous chromosomes
- B. Pairing of homologous chromosome and recombination between them
- C. Disappearance of nucleoli
- D. Replication of DNA

**Answer: B**



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42. Given type of plant cells are found in all of the following , except



- A. Pulp of sapota
- B. Fruit wall of nuts
- C. Hypodermis of dicot Stem
- D. Leaves of tea

**Answer: C**



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**43.** Select the correct Statement regarding the tricuspid valve .

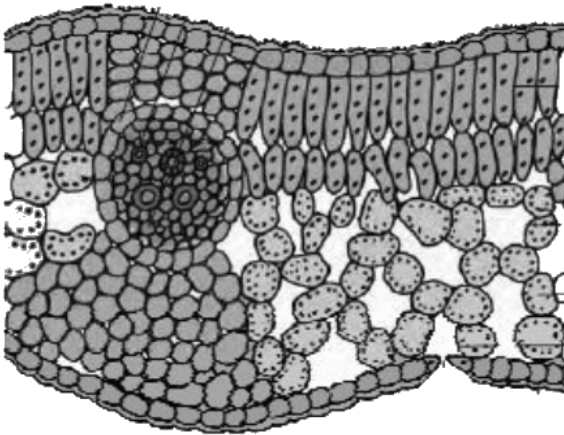
- A. It has three non-muscular flaps
- B. It guards the opening between left atrium and left ventricle
- C. It is unidirectional valve .
- D. It is also called the mitral valve.

Answer: C



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44. Correctly identify the diagram given below :



A. Old dicot root

B. Young monocots stem

C. Dicot leaf

D. Monocot leaf .

**Answer: C**



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**45.** The pericardial fluid is present in the

A. Double walled membranous bag

B. Double walled cartilaginous cavity

C. Double walled coelomic cavity

D. Single walled membranous bag



**Answer: A**



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**46. Members of the same species**

- A. Produce fertile offsprings in natural condition
- B. are reproductively isolated
- C. differ a lot with each other
- D. are genetically similar

**Answer: A**



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**47.** The packaging of chromatin at a higher level requires an additional set of proteins that collectively are referred to as

A. Small nuclear ribonucleoprotein (SnRNP)

B. Nucleoplasmin protein

C. Ribophorin protein

D. Non histone chromosomal proteins

**Answer: D**



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**48.** Choose the false statement from the following.

A. About 60 % starch is hydrolysed in buccal cavity by the enzyme salivary amylase

B. Salivary amylase acts on starch and is converted into maltose

C. Salivary amylase acts at optimum pH 6.8

D. Stomach stores the food for 4-5 hours

**Answer: A**



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**49.** Identify the family of monocots from the following .

A. Leguminoseae and Liliaceae

B. Solanaceae

C. Liliaceae

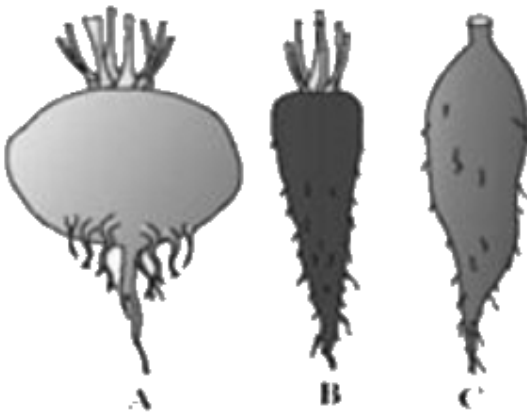
D. Brassicaceae and solanaceae

Answer: C



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50. Three plants A, B and C are modified for storage in the given diagram . Identify the correct Statement :



A. A , B and C - all are modifications of stem

B. A and B are modifications of tap root

C. A and C are modifications of adventitious roots

D. C is modifications of tap root.

**Answer: B**



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**51.** Blood analysis of a patient reveals an unusually high quantity of carboxyhaemoglobin content

which of the following conclusions is most likely to be correct

A. The patient has been inhaling polluted air containing usually high content usually high content of carbon disulphide.

B. The patient has been inhaling polluted air containing usually high content of chloroform

C. The patient has been inhaling polluted air containing usually high content of carbon

D. The patient has been inhaling polluted air containing usually high content of carbon monoxide .

**Answer: D**



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**52.** Which of the following are the members of Fabaceae ?

A. Sesbania , Trifolium

B. Potato , Brinjal



C. *Allium cepa* , *Asparagus*

D. Tobacco , *petunia* .

**Answer: A**



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**53.** Select the correct Statement about the *solanaceae* Family .

A. Bicarpellary and syncarpous / Inferior ovary  
with bilocular condition and many ovules .

B. Bicarpellary and apocarpous / Superior ovary with bilocular condition and many ovules.

C. Multicarpellary and syncarpous / Inferior ovary with bilocular condition and many ovules .

D. Multicarpellary and syncarpous /superior ovary with bilocular condition and many ovules .

**Answer: D**



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54. ....A.....( a type of cell ) in sporogenous mass undergo .....B..... ( a type of cell division ) to form a tetrad that on separation given rise to .....C ..... ( number ) functional microspore /s.

- |    |                       |          |          |
|----|-----------------------|----------|----------|
| A. | <i>A</i>              | <i>B</i> | <i>C</i> |
|    | Pollen mother cell    | Meiosis  | 4        |
| B. | <i>A</i>              | <i>B</i> | <i>C</i> |
|    | Pollen mother cell    | Meiosis  | 1        |
| C. | <i>A</i>              | <i>B</i> | <i>C</i> |
|    | Megaspore Mother cell | Meiosis  | 4        |
| D. | <i>A</i>              | <i>B</i> | <i>C</i> |
|    | Megaspore Mother cell | Meiosis  | 1        |

**Answer: A**



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55. How much volume of neural tissue in our body is contributed by neuroglia ?

A.  $< 20 \%$

B.  $> 50 \%$

C.  $< 70 \%$

D.  $90 \%$

**Answer: B**



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56. What happened when the intrapulmonary pressure is less than atmospheric pressure ?

- A. Inspiration
- B. Expiration
- C. Emphysema
- D. Forceful expiration

**Answer: A**



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57. Select the correct information about American cockroach (*Periplaneta americana*).

- A. Head Epignathus condition
- B. Head 10 chambered
- C. Malpighian tubules 50-60in number
- D. Anal cerci Help in copulation

**Answer: D**



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58. What is correct about the niche ?

- A. The physical space where an organism lives
- B. The functional role played by the organism where it lives.
- C. All of biological factors in the organism's and environment
- D. The range of temperature that the organism needs to live

**Answer: B**



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59. AGGTATCGCAT is a sequence from the coding strand of a gene . What will be the corresponding sequence of the transcribed mRNA ?

A. AGGUAUCGCAU

B. ACCUAUGCGAU

C. UGGTUTCGCAT

D. UCCAUAGCGUA

**Answer: A**



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60. Sliding filament theory can be best explained as

A. When myosin filaments slide past each other, actin filaments shorten while myosin filaments do not shorten

B. Actin and Myosin filaments shorten and slide past each other

C. Actin and Myosin filaments do not shorten, rather they slide past each other

D. When myofilaments slide past each other ,  
actin filaments shorten while Myosin  
filaments do not shorten

**Answer: C**



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**61.** How many of the following are related to biotechnology ?

A. Development of pest - resistant crops by using RNA interference technique.

B. Development of mulch breed of cow.

C. Artificial selection in crops .

D. Production of human insulin by use of bacteria.

E. Developing a DNA vaccine.

F. Correction of a defective gene.

A. One

B. Two

C. Three

D. Four

**Answer: D**



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**62.** How many of the given statements are incorrect?

A. The sternum is the part of appendicular skeleton.

B. 7 ribs are true ribs.

C. The longest bone in our body is the femur.

A. None

B. One

C. Two

D. All

**Answer: C**

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**63.** If we introduce the desired gene into the bacteriophage DNA and the bacteriophage is allowed to divide in the number of copies of the desired gene that can be produced is expected to be :

A. No bacteriophage will be produced.

B. Less than the number of bacteriophages produced.

C. More than the number of bacteriophages produced.

D. Equal to the number of bacteriophages produced.

**Answer: D**



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## 64. Match the columns :

Column-I	Column-II
A. Emphysema	1. Test to detect antigen or antibody
B. Rosie	2. $\alpha$ -1 antitrypsin
C. ELISA	3. Lactalbumin
D. ROP	4. Codes for proteins involved in plasmid replication.

A. A -2, B - 3, C - 1, D - 4

B. A -1, B - 3, C - 4, D - 2

C. A -1, B - 2, C - 3, D - 4

D. A -4, B - 3, C - 2, D - 1

**Answer: A**



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65. Connection between the membranes of a neuron and muscle is termed as :

A. Neuromuscular junction

B. Synaptic cleft

C. Cyton

D. Axon hillock

**Answer: A**



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66. What is correct about stirred - tank bioreactors ?

- A. Ensuring anaerobic conditions in the culture vessel
- B. Purification of product
- C. Addition of preservatives to the product
- D. Availability of oxygen throughout the process

**Answer: D**



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67. Mineral usage efficiency of plants can be .....A.....by genetic modification of plants and thus the exhaustion of fertility of the soil is .....  
B..... .

- A. *A*                      *B*  
Increased      Hastened
- B. *A*                      *B*  
Increased      Delayed
- C. *A*                      *B*  
Decreased      Hastened
- D. *A*                      *B*  
Decreased      Delayed

**Answer: B**



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**68.** Match the columns :

Column A	Column B
1. Cochlea	A. Bipolar cells
2. Olfactory epithelium	B. Tectorial membrane
3. Brain	C. Corpus callosum
	D. White matter
	E. Hair cells

A. 1 - B, E, 2 - A , D, 3 - C

B. 1- B, 2 - E , A, 3 - C,D

C. 1 - B, E, 2 - A , D, 3 - C

D. 1 - B , E, 2 - A, 3 - C , D

**Answer: D**



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69. Identify the incorrect statement

A. Insertional inactivation of  $\beta$  - galactosidase leads to blue colour colonies.

B. In insertional inactivation , the rDNA is inserted within the coding sequence of an enzyme  $\beta$  galactosidas.

C. Selection of recombinants due to inactivation of antiotic is a cumbersome procedure.

D. Insertional inactivation of  $\beta$  - galactosidase

leads to colourless colonies.

**Answer: A**



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**70.** Melatonin is secreted by.....which is located at .....

- A. (i) Pineal (ii) Dorsal side of the forebrain
- B. (i) Pineal (ii) Middle side of the forebrain
- C. (i) Pineal (ii) Base of the diencephalon

- D. (i) Pineal (ii) Ventral side of the forebrain

**Answer: A**



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**71. Kangaroo rat is an inhabitant of :**

- A. North American forests
- B. North American deserts
- C. East American grasslands
- D. East American deserts

**Answer: B**



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**72. Select the incorrect match.**

- A. ANF - Atria of heart
- B. Renin - Kidney
- C. Vasopressin - Anterior pituitary
- D. Progesterone - Placenta

**Answer: C**



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73. Which of the following is not an example of commensalism ?

- A. Orchid on mango branch
- B. Cuckoo and crow
- C. Egret and grazing cattle
- D. Sea anemone and clown fish

**Answer: B**



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**74.** Identify the incorrect statement.

A. Host specific parasites and their hosts are coevolved.

B. In competition ,  $r$ (intrinsic rate of natural increase ) of both competing species are decreased .

C. In case of brood parasitism , crow is unable to identify between its own eggs and cuckoos eggs.

D. Introduction of sheeps on Galapagos Islands  
has resulted in extinction of Abingdon  
tortoise.

**Answer: D**



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**75.** In which trophic level of a terrestrial ecosystem such as forest maximum energy can be found in organism ?

A.  $T_1$

B.  $T_2$

C.  $T_3$

D.  $T_4$

**Answer: A**



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**76.** Read the following statements (A - E) and answer the question that follows them -

A Infundibulum in the thyroid is a thin flap of connective tissue .

B - Rupturing of Graafian follicles to release ovum

is mediated by LH.

C - Source of GH and Prolactin are different

D - Hormones are non - nutrient chemicals.

How many of the above statements are incorrect ?

A. None

B. One

C. Two

D. Three

**Answer: C**



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77. The present mass extinction

A. 3<sup>rd</sup>

B. 4<sup>th</sup>

C. 5<sup>th</sup>

D. 6<sup>th</sup>

**Answer: D**



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78. Number of hotspots in India are

A. 2

B. 3

C. 14

D. 34

**Answer: B**



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**79.** What is the term for cryopreservation of gametes of threatened species in viable and fertile conditions ?

A. Advanced Ex - situ conservation of biodiversity

B. In - situ conservation by sacred groves.

C. In - situ cryo - conservation of biodiversity

D. In - situ conservation of biodiversity

**Answer: A**



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**80.** Select the incorrect match.

A. Epiphytes - Saline conditions

B. Radioactive leakage - Three Mile Island

C. Bioconcentration - Hg and DDT

D. Haryana Kisan Welfare Club - Ahmed Khan

**Answer: D**



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**81.** Which one of the following is a wrong statement ?

A. Most of the biodiversity losses have occurred in tropical areas.



B. Ozone in lower part of atmosphere is useful for animals.

C. Greenhouse effect is a natural phenomenon

D. Eutrophication is a natural phenomenon in lakes.

**Answer: B**



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**82.** Which of the following statements is true for colour blindness ?

- A. It is due to a mutation in certain genes present on 21<sup>st</sup> pair of the chromosome.
- B. It occurs in female as compared to male.
- C. The son of the carrier woman has 50% chances of being colour blind.
- D. It is an autosomal linked genetic disorder.

**Answer: C**



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**83.** Select the incorrect statement about VNTRs.

- A. For performing DNA fingerprinting DNA is obtained from many cells.
- B. Polymerase chain reaction increase the sensitivity of VNTRs.
- C. VNTRs are also known as mini - satellites.
- D. Size ranges from 0.1 to 20 Kb.

**Answer: A**



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**84.** Which of the following feature makes the RNA chemically more reactive and structurally less stable nucleic acid than DNA ?

- A. Less rate of mutation.
- B. Indirect involvement in protein synthesis
- C. Free 2' H group
- D. Catalytic nature

**Answer: D**



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**85.** Which one of the following is a wrong matching of a microbe and its industrial product, while the remaining three are correct,

A. Yeast - statins

B. *Acetobacter aceti* - acetic acid

C. *Clostridium butylicum* - gluconic acid

D. *Aspergillus niger* - citric acid

**Answer: C**



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**86.** In oxidation pond , once BOD from the sewage is reduced significantly, the 'flocs' are allowed to sediment and it is known as :

- A. Activated sludge
- B. Inactivated sludge
- C. Primary sludge
- D. Secondary sludge

**Answer: A**



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**87.** An explant is

A. bud of a plant .

B. virus infected part of plant.

C. the part of the plant used in tissue culture.

D. the part of the plant that expresses a  
specific gene.

**Answer: C**



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**88.** Observe the four crosses given below :

(A.)  $TTrr \times ttRR$

(B.)  $TtRr \times ttrr$

(C.)  $TtRr \times TTrr$

(D.)  $Ttrr \times ttRr$

In which of the following crosses , 1: 1: 1: 1 ratio of progenies is obtained ?

A. A, C and D

B. A, B, C and D

C. B and D

D. A and B



**Answer: C**



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**89. Which of these organisms show budding?**

A. Yeast

B. Hydra

C. Sponges

D. All of these

**Answer: D**



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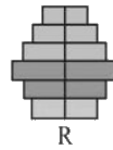
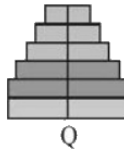
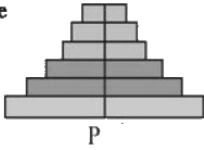
**90.** Various age pyramids (P-R) for human population are shown below. Select the option

with correct identification.

Post-reproductive

Reproductive

Pre-reproductive



Increasing type	Declining type
P	Q

Stable type	Declining type
P	R

Stable type	Increasing type
Q	R

Stable type	Declining type
Q	R

- A. Increasing type    Declining type  
*P*                            *Q*
- B. Stable type    Declining type  
*P*                            *R*

- C. Stable type    Increasing type  
 $Q$                        $R$
- D. Stable type    Declining type  
 $Q$                        $R$

**Answer: D**



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