



## BIOLOGY

### BOOKS - NTA MOCK TESTS

#### NTA NEET SET 61

#### Biology

1. Har Gobind khorana also contributed to genetic engineering

by synthesizing

A. pBR322

B. Viroid

C. pBR42

D. Artificial gene

**Answer: D**



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2. Which of the following system returns the blood from the intestine to the liver ?

A. Renal portal system

B. Hepatic portal system

C. Lymphatic system

D. Systemic circulation

**Answer: B**



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3. The energy that is released by the hydrolysis of ATP by actin is used for :

- A. actin filaments assembly
- B. actin filaments disassembly
- C. actin-myosin assembly
- D. actin-myosin disassembly

**Answer: A**



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4. The Great Barrier Reef along the east coast of Australia can be categorized as:

A. Population

B. Community

C. Ecosystem

D. Biome

**Answer: C**



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5. The most important human activity leading to the extingting of wildlife is

A. Alternate and destruction of the natural habitats

B. Hunting for commercially valuable wild life products

C. Pollution of air and water

D. Introduction of alien species

**Answer: A**

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6. The seminal fluid coagulates on ejaculation due to

A. Sodium contents from prostatic secretion

B. Sodium contents from Cowper's gland

C. Calcium and fibrinogen contents from prostatic and seminal vesicle secretions, respectively.

D. Secretion of epididymis

**Answer: C**

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7. Secondary cell wall grows by

A. Deamination

B. Calcicole

C. Apposition

D. None of these

**Answer: C**



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8. Which of the following is not an antibiotic produced by bacteria ?

A. Bacitracin

B. Polymyxin A

C. Griseofulvin

D. Amphotericin B

**Answer: C**



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**9. The elementary sulphur is present in**

A. Valine , lysine and cystine

B. Tryptophan , Glutamic acid , Aspartic acid

C. Citrulline , Methionine and Glutamic acid

D. Homo-cysteine , Cystine and Methionine

**Answer: D**



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10. The amount of water required to form one molecule of glucose in a photosynthetic reaction is

- A. 6 molecules
- B. 10 molecules
- C. 1 molecules
- D. 12 molecules

**Answer: D**



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11. Which of the following organisms is not an obligate aerobe ?

- A. *Pseudomonas aeruginosa*
- B. *Klebsiella pneumoniae*
- C. *Mycobacterium tuberculosis*
- D. *Bacillus* sp

**Answer: B**



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12. The respiratory quotient varies due to

- A. Respiratory substrate
- B. Light and  $O_2$

C. Respiratory product

D. Temperature

**Answer: A**



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**13.** The slime moulds are characterized by the presence of

A. elaters

B. Pseudoelaters

C. Myxamoebae

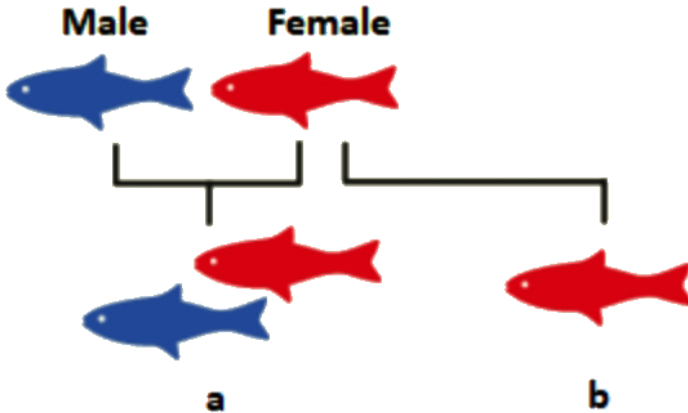
D. Capitulum

**Answer: C**



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14. Observe the diagram given below and identify a and b.



- A. a. Amphimixis , b : Parthenocarpny
- B. a. Amphimixis , b : Parthenogenesis
- C. a: Parthenocarpny ,b : Amphimixis
- D. a: Parthenogenesis , b: sexual reproduction

**Answer: B**



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15. The lichen commonly known as the 'reindeer moss' is

A. Marselia

B. Cladonia

C. Georgia

D. Usnea

**Answer: B**



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16. Which of the following part of human brain is also called emotional brain?

A. Corpus callosum

B. Limbic system

C. Epithalamus

D. Broca's area

**Answer: B**



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**17.** The 'endospores' are formed in the following genera

A. Bacillus and Clostridium

B. Mucor and Bacillus

C. Monococcus and Clostridium

D. Saccharomyces and Clostridium

**Answer: A**



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**18.** Fresh water is maximum used in

A. Drinking

B. Cooking

C. Agriculture

D. Pisciculture

**Answer: C**



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**19.** Read the following statements and select the correct option

.

- a. To facilitate more sound and scientific of various taxa, taxonomists have also developed subcategories.
- b. Only a few protozoans are heterotrophs and live as predators or parasites.
- A. Both (a) and (b) are correct
- B. Only (a) is correct
- C. Only (b) is correct
- D. Both (a) and (b) is incorrect

**Answer: B**



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**20. Nitrifying bacteria**

- A. Convert free nitrogen to nitrogen compounds

B. Convert Proteins into ammonia

C. Reduce nitrates to free nitrogen

D. Oxidize ammonia to nitrates

**Answer: D**



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**21.** The thymus secretes the ..... hormone called ..... Which play a major role in the differentiation of ..... lymphocytes.

A. Glycoproteinaceous , thymosin ,T

B. Steroid , thymosin , T

C. Peptide , thymosin T

D. Peptide , thymosin , B



**Answer: C**



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**22.** Select the correct sequence of meninges from inside to outside

A. Duramater → arachnoid membrane → Piamater

B. Duramater → Piamater → arachnoid membrane

C. Piamater → arachnoid membrane → duramater

D. Arachnoid membrane → duramater → piamater

**Answer: C**



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23. In lung , maximum gaseous exchange is due to

- A. Simple diffusion
- B. Active transport
- C. Passive transport
- D. Fascillitated diffusion

**Answer: A**



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24. Tissue which has power of division and regeneration throughout life

- A. Epithelial tissue
- B. Areolar tissue

C. Muscular tissue

D. Myelinated never fibers

**Answer: A**



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25. Rennet enzyme was purified by

A. Fleming

B. S. A. Waksman

C. Watson and crick

D. Christian Hansen

**Answer: D**



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26. Which one of the following does not act as a neurotransmitter ?

A. Epimorphine

B. Norepinephrine

C. Cortisone

D. Acetylcholine

**Answer: C**



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27. The kind of evolution in which two species of different genealogy come to resemble one another closely, is termed as

A. Progressive evolution

B. Convergent evolution

C. Parallel evolution

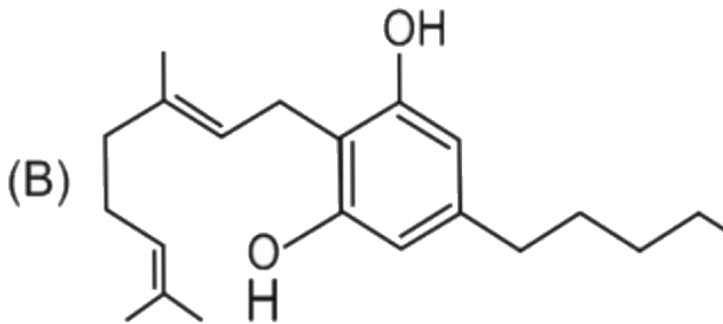
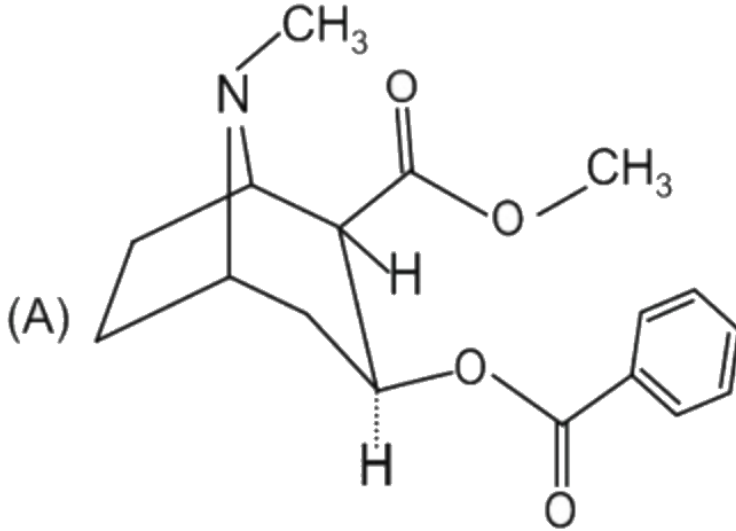
D. Regressive evolution

**Answer: B**



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**28.** Identify the molecules ( a ) and ( b ) shown below and select the right option giving their source and use.



A. (a) Cocaine, *Erythroxylum coca*, Accelerates the transport of dopamine

B. (b) Heroin, Cannabis sativa, Depressant and slows down  
body functions

C. (b) Cannabinoid, Atropa belladonna, Produces  
hallucinations

D. (a) Morphine, Papaver somniferum, Sedative and pain  
killer

**Answer: D**



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**29.** ELISA is used to detect viruses, where

A. DNA-probes are required

B. Southern blotting is done

C. Alkaline phosphatase is the key reagent

D. Catalase is the key reagent

**Answer: C**



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**30.** From which embryonic structure develops the vertebral column

A. Neural canal

B. Archenteron

C. Notochord

D. Blastocoel

**Answer: C**



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31. Which of the following is a secondary pollutant

A.  $SO_2$

B.  $CO_2$

C.  $CO$

D.  $O_3$

**Answer: D**

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32. Gibberellic acid has been successfully employed to induce flowering

- A. In short day plants under long day conditions
- B. In long day plants under short day conditions
- C. In some short day long day plants
- D. In neither short day nor long day plants

**Answer: B**



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**33.** Find the correct match with respect to habitat loss.

- A. Plant-pollinator mutualism -Co-extinction
- B. Extinction of steller's sea cow - Degradation of habitat by  
pollution
- C. *Clarias gariepinus* - Invasive weed species

D. Amazonian rainforests - Deforestation for cultivation of  
cotton

**Answer: A**



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**34. Zygomorphic flowers are found in :-**

A. Mustard

B. Gulmohur

C. China rose

D. Datura

**Answer: B**



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**35.** Read the following four statements (A - D) :

A. The small intestine is the principle organ for the absorption of nutrients.

B. In constipation , the faeces are retained within the rectum as the bowel movements occur irregularly.

C. The gross calorific value of fat is 4.1 kcal/g.

D. The innermost layer lining the lumen of the alimentary canal is the serosa.

How many of the above statement are wrong ?

A. Four

B. Three

C. Two

D. One

**Answer: C**



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**36.** Hugo de Vries formulated the "Mutation Theory" based on the experiments he conducted on

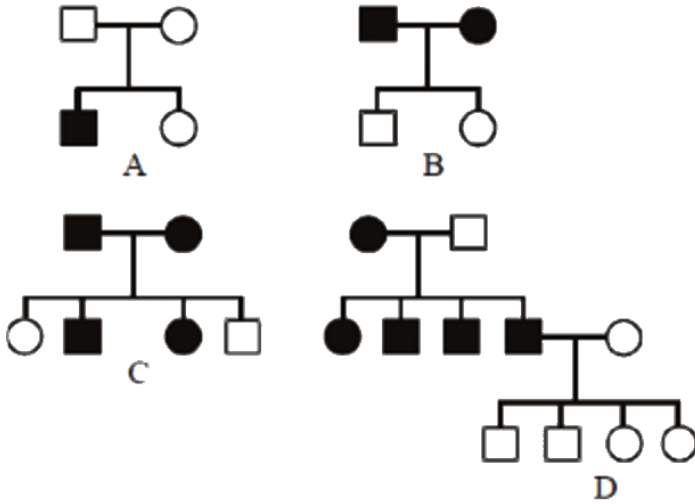
- A. *Althea rosea*
- B. *Pisum sativum*
- C. *Drosophila melanogaster*
- D. *Oenothera lamarckiana*

**Answer: D**



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37. Observe the following pedigree charts :



Find the incorrect match from the following.

- A. A - Autosomal or sex linked recessive
- B. B - Autosomal or sex linked dominant
- C. C - Autosomal dominant
- D. D - Cytoplasmic gene inheritance

**Answer: B**



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**38.** Which is not related to transpiration pull

- A. Capillarity theory
- B. Ascent of sap
- C. Cohesive force
- D. Adhesive force

**Answer: A**



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**39.** Match the following column I with column II .

Column - I

Column - II

A - Metaphase - II

1. Centromere with 2 kinetochores

B. Anaphase -I

2. Disjunction

C. Mitosis

3. Synapse

D. Zygotene

4. Plectonemic coiling

A.  $A \ B \ C \ D$   
1 2 4 5

B.  $A \ B \ C \ D$   
1 2 4 2

C.  $A \ B \ C \ D$   
2 3 1 4

D.  $A \ B \ C \ D$   
4 1 3 2

**Answer: A**



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**40.** Which of the following is an isogamous plant, producing non-flagellated gametes ?

A. Spirogyra

B. Volvox

C. Chlamydomonas

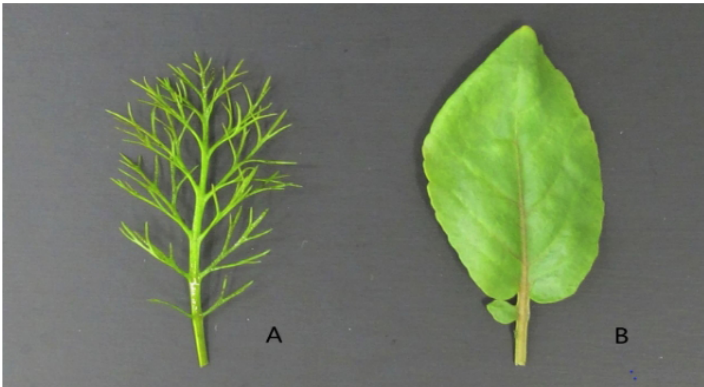


D. Fucus

**Answer: A**

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**41.** The picture given below depicts the phenomenon of heterophylly of a plant find the incorrect statement with reference to the same .



- A. The type of heterophylly seen in A and B is an example of plasticity in plants .
- B. The appearance of leaf A is due to the developmental change underwent by the plant in a terrestrial habitat .
- C. Heterophylly is prominently observed between the juvenile and mature stages in cotton plants.
- D. The appearance of leaf B caters to the foliage found in forests.

**Answer: B**



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**42. Match the following with respect to chromosomal Mutation**

Column - I

Column - II

a. Tetrasomy

(i) AABB

b. Double trisomy

(ii)  $2n - 1$

c. Hypoploidy

(iii)  $2n + 1$

d. Allopolyploidy

(iv)  $2n + 2$

(v)  $2n + 1 + 1$

A. a (iv), b(ii) , c (i), d(v)

B. a (iv), b(v), c (ii), d (i)

C. a (iv), b (v) ,c (iii), d(ii)

D. a( ii), b(iii) ,c (i),d (iv)

**Answer: B**



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43. What would be the heart rate of a person if the cardiac output is 5 L, blood volume in the ventricles at the end of diastole is 100 mL and at the end of ventricular systole is 50 mL ?

- A. 50 beats per minute
- B. 75 beats per minute
- C. 100 beats per minute
- D. 125 beats per minute

**Answer: C**



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44. Match the following and choose the correct combination from the options given :

	Column-I		Column- II
(A)	<i>Escherichia coli</i>	(1)	'nif' gene
(B)	<i>Rhizobium meliloti</i>	(2)	Breakdown of hydrocarbons of crude oil
(C)	<i>Bacillus thuringiensis</i>	(3)	Human insulin production
(D)	<i>Pseudomonas putida</i>	(4)	Biocontrol of fungal disease
		(5)	Biodegradable insecticide

A.  $\begin{matrix} A & B & C & D \\ 3 & 1 & 5 & 4 \end{matrix}$

B.  $\begin{matrix} A & B & C & D \\ 1 & 2 & 3 & 4 \end{matrix}$

C.  $\begin{matrix} A & B & C & D \\ 2 & 1 & 3 & 4 \end{matrix}$

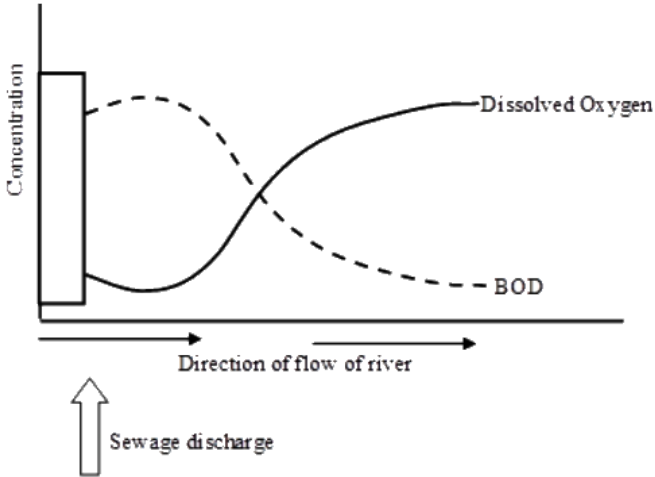
D.  $\begin{matrix} A & B & C & D \\ 3 & 1 & 5 & 2 \end{matrix}$

**Answer: D**



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45. Study the graph given below and choose the option that is correctly describing the relationship between dissolved oxygen (DO) and biochemical oxygen demand (BOD) :



A.  $DO \propto 3BOD$

B.  $DO \propto 2BOD$

C.  $DO \propto \frac{1}{BOD}$

D.  $DO \propto BOD$

**Answer: C**



**46.** With respect to the Amazonian rainforests , a few estimations of various organism are listed below :

- (a) 40,000 species of plants
- (b) 300 species of fishes
- (c) 1,300 species of reptiles
- (d) 427 species of mammals
- (e) 527 species of amphibians

Which of these estimates are incorrect ?

- A. (a),(b), (c)
- B. (d),(e)
- C. (b),(c),(e)
- D. (a), (b) ,(e)

**Answer: C**



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**47.** Which of the following statements is incorrect about menstruation?

- A. At menopause in the female , there is especially abrupt increase in gonadotropic hormone
- B. The beginning of the cycle of menstruation is called menarche
- C. During normal menstruation about 40 ml blood is lost
- D. The menstrual fluid can easily clot

**Answer: D**





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48. Which one of the following pairs of codons is correctly matched with their function or the signal for the particular amino acid ?

- A. GUU ,GCU - Alanine
- B. UAG, UGA - stop
- C. AUG, AUG- start/Methionine
- D. UUA,UCA -Leucine

**Answer: B**

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49. Lateral roots develop from primordia originated by the division of

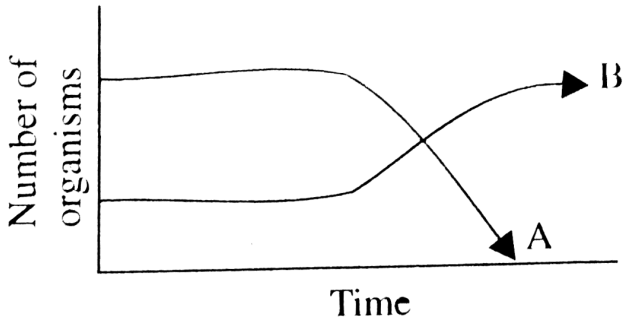
- A. Pericycle cells lying opposite to protoxylem points
- B. Pericycle cells lying between two protoxylem points
- C. Endodermal cells lying between two protoxylem points
- D. Endodermal cells lying opposite to protoxylem points

**Answer: B**

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50. The graph below shows the changes in two populations of herbivores in a grassy field. A possible reason for these changes

is that



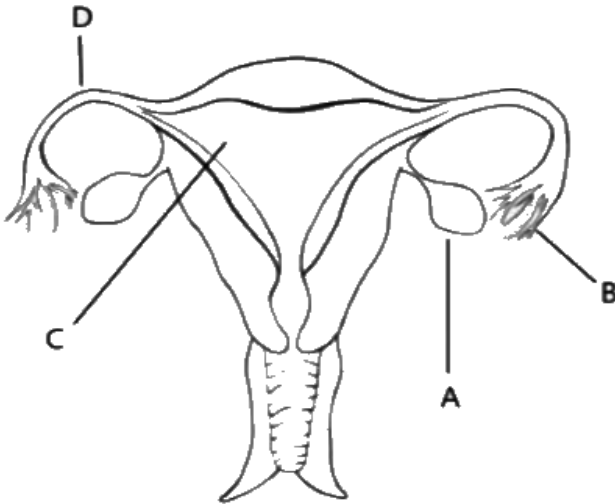
- A. Population B competed more successful for food than population A did.
- B. all of the plant populations in this habitat decreased .
- C. Population A consumed the members of population B.
- D. Population A produced more offspring than population B did

**Answer: A**



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51. Given below is a diagrammatic representation of the female reproductive system .



The main function of the part labelled B is to

- A. Release ovum from the Graafian follicles
- B. Make necessary changes in the endometrium for implantation
- C. Help in the development of corpus luteum
- D. Help in the collection of the ovum after

**Answer: D**



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**52.** Which of the following does not constitute appendicular skeleton ?

A. Coxal bone

B. Scapula

C. Humerus

D. Sternum

**Answer: D**



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53. The telomeres of eukaryotic chromosomes consist of short sequences of

- A. thymine rich repeats
- B. Cytosine rich repeats
- C. adenine rich repeats
- D. guanine rich repeats the

**Answer: D**



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54. Three floral diagram are given here . respectively families are assigned in the answer key . Find out the families to which

these diagrams belong to



A. A - Liliaceae , B - Asteraceae , C - Solanaceae

B. A - Asteraceae , B - Solanaceae , C - Brassicaceae

C. A - Asteraceae , B - Solanaceae , C - Asteraceae

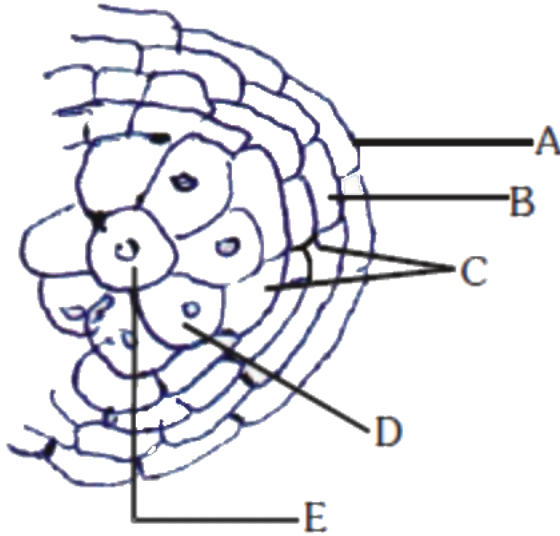
D. A - Poaceae , B - Solanaceae , C - Asteraceae

**Answer: B**



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55. Observe the diagram of T.S .of young anther given here and find the incorrect match.



- A. B -Helps in dehiscence of anther
- B. C - Absent in mature dehiscent anther
- C. D - provides protection
- D. E - Undergoes meiosis to form microspores



**Answer: C**



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**56.** The callus culture and suspension cultural are used to produce plantlets . They are distinguished by

- A. Callus culture is in vitro while suspension is vivo
- B. In callus culture shoots are organised whereas in suspension cultural somatic embryo is organised
- C. In callus culture hormone is present but in suspension cultural hormone is absent
- D. None of the above

**Answer: B**



57. both in cells and extracellular fluids , dibasic phosphate ( $HPO_4^{2-}$ ) and monobasic phosphate ( $H_2PO_4^-$ ) act as acid base buffers to maintain

- A.  $K^+$  concentration of extracellular fluid
- B.  $Na^+$  concentration of extracellular fluid
- C.  $Na^+$  concentration of cellular fluid
- D.  $H^+$  concentration of cellular fluid

**Answer: D**

58. In which one of the following the genus name, its two characters and its phylum are incorrectly matched ?

- |    | Genus name     | Two characters  |              |
|----|----------------|---|--------------|
| A. | a) Pila        | <u>Body Segmented</u><br><u>Mouth with radula</u>         | Mollusca     |
|    | Genus name     | Two characters  |              |
| B. | b) Asterias    | <u>Spiny Skinned</u><br><u>Water vascular system</u>      | Echinoermata |
|    | Genus name     | Two characters  |              |
| C. | c) Sycon       | <u>Pore bearing</u><br><u>Canal system</u>                | Porifera     |
|    | Genus name     | Two characters  |              |
| D. | d) Periplaneta | <u>Jointed appendages</u><br><u>Chitinous exoskeleton</u> | Arthropoda   |

**Answer: A**



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59. Which of the following is correct regarding mineral ions absorption in plants ?

- A. Most of the mineral ions are absorbed passively and actively absorbed
- B. Most of the mineral ions are absorbed passively and passively absorbed
- C. All the mineral ions are actively absorbed
- D. All the mineral ions are passively absorbed

**Answer: B**



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**60.** There are two opposing views about origin of modern man. According to one view Homo erectus in Asia were the ancestors of modern man. A study of variation of DNA however suggested

African origin of modern man. What kind of observation on DNA variation could suggest this ?



- A. Greater variation in Asia than in Africa
- B. Greater variation in Africa than in Africa
- C. Similar variation in Africa and Asia
- D. Variations only in Asia and no variation in Africa

**Answer: B**



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**61.** Which of the following option is correct about gametes in case of oogamy ?

- A.  gamete - motile;  gamete - motile

B. ♂ gamete - non-motile; ♀ gamete - non-motile

C. ♂ gamete - motile; ♀ gamete - non-motile

D. ♂ gamete - non-motile; ♀ gamete - motile

**Answer: C**



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**62. Which one of the following is resistant to enzyme action**

A. Leaf cuticle

B. Cork

C. Wood fibre

D. Pollen exine

**Answer: D**



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63. Which of the following hormones are secreted by pars nervosa?

- A. Adrenaline and nor-adrenaline
- B. Vasopressin and somatostatin
- C. STH and prolactin
- D. Oxytocin & vasopressin

**Answer: D**



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64. Which of the following represents the characteristics of the entomophilous flower ?

- A. Nectarless , odourless and coloured
- B. Colourful , fragrant and nectar rich
- C. Coloured, fragrant and nectarless
- D. Coated by a waxy layer

**Answer: B**



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65. Which of the following statements is incorrect about the heart of cockroach ?



- A. Heart is present along the mid-dorsal line of thorax and abdomen
- B. It is 13-chambered
- C. It is neurogenic
- D. It is myogenic

**Answer: D**



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**66.** In an ecosystem the rate of production of organic matter during photosynthesis is termed as

- A. Net primary productivity
- B. Gross primary productivity

C. Secondary productivity

D. Net productivity

**Answer: B**



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**67.** In fern, sporangia are borne on the

A. Margin of leaf

B. Abaxial side of leaf

C. Adaxial side of leaf

D. Only on the tip of leaf

**Answer: A**



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68. A mature sieve tube differs from vessel in

- A. lacking a functional nucleus.
- B. absence of lignified walls.
- C. being nearly dead.
- D. lacking cytoplasm .

**Answer: B**



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69. Which of the following condition will be observed in a person suffering from sickle cell anemia ?

A.

<i>DNA</i>	<i>mRNA</i>	Amino acid at 6 <sup>th</sup>	Position of $\beta$ chain
<i>CTC</i>	<i>GAG</i>	Valine	

B.

<i>DNA</i>	<i>mRNA</i>	Amino acid at 6 <sup>th</sup>	Position of $\beta$ chain
<i>CAC</i>	<i>GUG</i>	Glutamic acid	

C.

<i>DNA</i>	<i>mRNA</i>	Amino acid at 6 <sup>th</sup>	Position of $\beta$ chain
<i>CTC</i>	<i>GAG</i>	Glutamic acid	

D.

<i>DNA</i>	<i>mRNA</i>	Amino acid at 6 <sup>th</sup>	Position of $\beta$ chain
<i>CAC</i>	<i>GUG</i>	Valine	

**Answer: D**



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**70.** Filiform apparatus is characteristic feature of

A. Nucellar embryo

B. Aleurone cell

C. Synergids

D. Generative cell

**Answer: C**



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**71.** All the following are the features of inhibin hormone ,  
except :

A. Its secretion increases with increase in the number of  
spermatozoa .

B. It stimulates FSH secretion in males

C. It is secreted by sertoli cells

D. It is a non-steroidal hormone .

**Answer: B**



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72. Syngenesious condition is found in

A. Asteraceae

B. Labiate

C. Solanaceae

D. Fabaceae

**Answer: A**



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**73.** Two plants can be conclusively said to belong to the same species if they

- A. Have more than 90 percent similar genes
- B. Look similar and possess identical secondary metabolites
- C. Have same number of chromosomes
- D. Can reproduce freely with each other and from seeds

**Answer: D**



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**74.** In contrast to Annelids the Platyhelminthes show

- A. absence of body cavity .

B. bilateral symmetry.

C. radial symmetry.

D. Presence of eucoelom .

**Answer: A**



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**75.** Select the distinguishable characters of ophiura from balanoglossus

A. Has an endoskeleton of calcareous ossicles

B. Has water vascular system

C. Is radially symmetrical

D. All of the above



**Answer: D**



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76. As (a)\_\_\_\_\_ can not pass through the non polar lipid bilayer, they require (b)\_\_\_to facilitate their transport across the membrane.

- A. (A) Non - polar (B) Polar (C) Transmembrane protein
- B. (A) polar (B) Non - Polar (C) Carrier protein
- C. (A) polar (B) Polar (C) Transmembrane protein
- D. (A) Non - polar (B) Non - Polar (C) Carrier protein

**Answer: B**



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77. the haemoglobin of a human foetus

- A. has a lower affinity for oxygen than that of the adult and the oxygen dissociation curve is towards right .
- B. has affinity for oxygen the same as that of an adult.
- C. has a higher affinity for oxygen than that of an adult and the oxygen dissociation curve is towards right.
- D. has a higher affinity for oxygen than that of an adult and the oxygen dissociation curve is towards left .

**Answer: D**



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78. What is the role of  $NAD^+$  in cellular respiration

- A. It is a nucleotide source for ATP synthesis.
- B. It functions as an electron carrier.
- C. It functions as an enzyme.
- D. It is that final electron acceptor for anaerobic respiration.

**Answer: B**



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**79.** Algae often float on surface of water during day but sink down during night due to

- A. they become light due to consumption of food material in respiration.

- B. they become light due to consumption of food material  
in respiration
- C. of accumulation of organic acids at night.
- D. of change in temperature

**Answer: B**



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**80.** The rate at which new born individuals are joining the population by reproduction is known as

- A. natality
- B. mortality
- C. Fertiliy

D. Vitality

**Answer: A**



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**81. Wings of pigeon, mosquito and bat show**

A. atavism

B. convergent evolution

C. divergent evolution.

D. mutation.

**Answer: B**



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**82.** Which of the following is an opioid drug ?

- A. Marijuana
- B. Barbiturates
- C. Cocaine
- D. Morphine

**Answer: D**



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**83.** Main objective of production/use of herbicide resistant GM crops is to :-

- A. eliminate weeds from the field without the use of manual labour .

B. eliminate weeds from the field without the use of herbicides.

C. encourage eco - friendly herbicides.

D. reduce herbicide accumulation in food articles for health safety.

**Answer: D**



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**84.** Periplastidial space is found in

A. between two membranes of a chloroplast.

B. between two thylakoids

C. between two intergrana lamellae.

D. between lumen of thylakoids

**Answer: A**



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**85.** Consider the following statements.

I. In man, vertebral column has 33 bones which are organised as 28 bones.

II. Pelvic girdle is made up of two fused bones only.

III. Osteoporosis is characterised by microarchitectural deterioration of the bone.

Identify the correct statement.

A. I is correct

B. II is correct



C. III correct

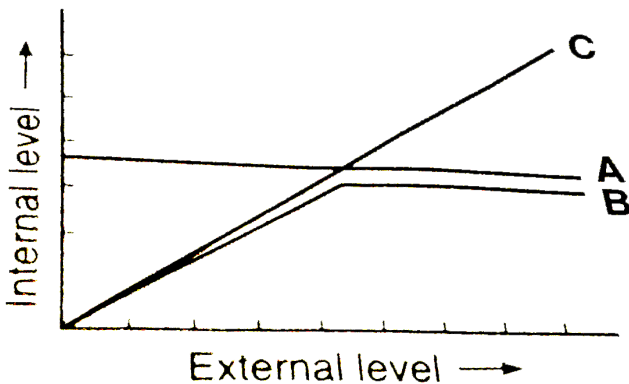
D. Both (B) and (C)

**Answer: C**



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**86.** The figure given below is a diagrammatic representation of response of organisms to abiotic factors. What do A, B and C represent respectively?



A. Conformer , Regulator , Partial regulator

B. Regulator , Partial regulator , Conformer

C. Partial regulator , Regulator , Conformer

D. Regulator , Conformer , Partial regulator

**Answer: D**



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**87.** Distance between the genes and percentage of recombination shows

A. A direct relationship with each other.

B. An inverse relationship with each other.

C. A parallel relationship with each other.

D. They are not related to each other .

**Answer: A**



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**88.** The end product of ornithine cycle is

A. Ammonia

B. Urea

C. Arginine

D. Carbon dioxide

**Answer: B**



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89. Which of the following are not characteristic features of fabaceae ?

A. Top root system , compound leaves and raceme inflorescence

B. Flowers actinomorphic , twisted aestivation and gamopetalous

C. Stamens ten, introrse , basifixed and dithecous

D. Monocarpellary , ovary superior and bent stigma

**Answer: B**



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90. Vaccines are:

A. treated bacteria or viruses or one of their proteins

B. major histocompatibility complex.

C. curative medicines.

D. monoclonal antibodies.

**Answer: A**



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