



## BIOLOGY

### BOOKS - NTA MOCK TESTS

#### NTA NEET SET 97

#### Biology

1. An individual affected by phenylketonuria lacks an enzyme that converts the amino acid \_\_\_\_\_ into \_\_\_\_\_

- A. tyrosine , phenylalanine
- B. phenylalanine , tyrosine
- C. homogentisic acid , phenylalanine
- D. homogentisic . acid , tyrosine

**Answer: B**

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2. In which one pair both the plants can be vegetatively propagated by leaf?

- A. Bryophyllum and Kalanchoe
- B. Chrysanthemum and Agave
- C. Agave and Kalanchoe
- D. Asparagus and Bryophyllum

**Answer: A**

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3. Fusion product of polar nuclei is

- A. synergids
- B. antipodals
- C. endosperm nucleus
- D. secondary nucleus

**Answer: D**



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4. Failure of segregation of chromatids during cell division results in the gain or loss of chromosomes, this is called as

- A. euploidy
- B. monoploidy
- C. aneuploidy
- D. polyploidy

**Answer: C**



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**5. Which among the following statements are correct ?**

- (i) A – T rich region of DNA denature at low temperature and are less stable than G – C rich regions.
- (ii) RNA is more stable than DNA .
- (iii) SNP are present at about 1 billion locations in humans.
- (iv) DNA polymerase I have both  $5' \rightarrow 3'$  and  $3' \rightarrow 5'$  exonuclease activity.
- (v) Rifampicin inhibits RNA synthesis by inhibiting RNA polymerase.

A. (i) , (iii) and (iv)

B. (i), (ii) and (v)

C. (i) , (iv) and (v)

D. (ii) , (iii) and (v)

**Answer: C**

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**6. Which one of the following pairs is WRONGLY matched ?**

- A. Fruit juice - pectinase
- B. Textile - amylase
- C. Detergents - lipase
- D. Alcohol - nitrogenase

**Answer: D**

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**7. Himgiri variety of wheat, which was developed by hybridisation and selection is mainly resistance to**

A. white rust

B. bacterial blight

C. Chilly mosaic virus

D. leaf and stripe rust

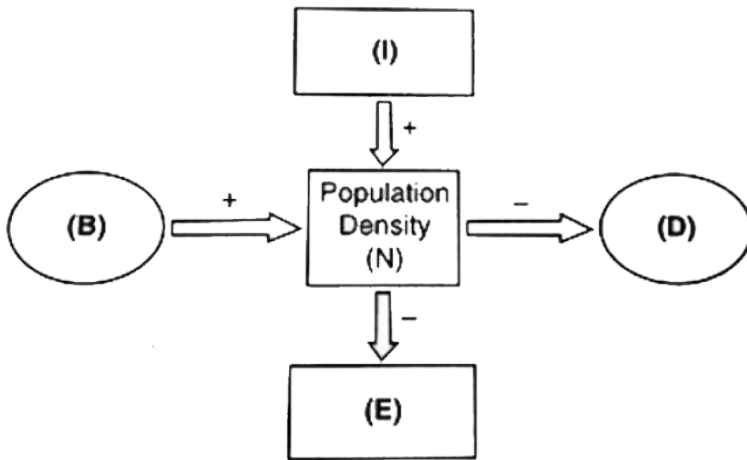
**Answer: D**



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**8.** Different factors affecting population density are given below . I

,B ,D and E represent :



- A. I-Emigration , B-immigration , D-Natality , E-Mortality
- B. I-Immigration , B-Natality , D-Mortality , E - Emigration
- C. I-Immigration, B-Mortality , D-Natality , E-Emigration
- D. I-Immigration, , B-Natality , D--Emigration, E-Mortality

**Answer: B**

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9. Select the CORRECT difference between standing crop and standing state .

A.

Standing crop	Standing state
It is the amount of inorganic nutrients presents in an ecosystem	It is the amount of biomass present in an ecosystem

B.

Standing crop	Standing state
It is represents part of non-living matter	It represents entire living matter

C.

Standing crop	Standing state
It cannot be circulated between living and non-living components	It can be circulated

D.

Standing crop	Standing state
It is regularly depleted and replenished	It is continuously synthesized and consumed.

**Answer: C**



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10. Mutation is :



A. sudden change in morphology

B. change in characters

C. change in heritable characters

D. none of these

**Answer: C**



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**11. Fill in the blanks:**

1. India has a greater .....a..... diversity than a Scandinavian country like Norway.

2. The western Ghats have a greater .....b..... Diversity than the eastern Ghats.

3. It has taken millions of years of evolution to accumulate the rich diversity in nature, but we would lose all the wealth in less than .....c..... if the present rates of species loss continue.

4. For many taxonomic groups, species inventories are more complete in ....d..... than in ....e..... countries.

A. a - ecological , b - amphibian species, c - two centuries , d- temperature , e- tropical

B. a-amphibian species b-ecological c- three decades , d - temperate e- tropical

C. a- ecosystem, b- amphibian species ,c- 100 years , d-tropical , e- temperate

D. a - amphibian species , b - ecosystem c - two centuries , d- tropical , e- temperate

**Answer: A**



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12. How many of the following statements regarding thermal pollution are INCORRECT ?

a. Heated wastewaters flowing out of electricity-generating units , e.g., thermal power plants , constituent an important category of pollutants.

b. Thermal wastewater eliminates or reduces the number of organisms sensitive to high temperatures.

c. It may enhance the growth of plants and fish in extremely cold areas but. Only after causing damage to the indigenous flora and fauna.

d. Thermal wastewater increases the number of organisms sensitive to high temperatures.

A. four

B. two

C. three

D. one

**Answer: D**

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**13.** The ploidy level is not the same in:

- A. Integument and nucellus
- B. Root tip and shoot tip
- C. Secondary nucleus and endosperm
- D. Antipodals and synergids

**Answer: C**

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**14.** If linkage was known at the time of Mendel then which of the following laws, he would not have been able to explain ?

- A. Law of dominance
- B. Law of independent assortment
- C. Law of segregation
- D. Law of purity of gametes

**Answer: B**



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**15. Which of the following is a wrong match ?**

- A. Rho factor - Terminates translation
- B. AUG - Initiates transcription
- C. Sigma factor - Initiates translation
- D. All of these

**Answer: D**



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16. Find the INCORRECT statement.

- A. 250g of *Methylophilus methylotrophus* produce  $25 \times 10^3$  kg of protein in a day
- B. The shift from meat to grain diets creates more demand for cereals.
- C. 250 kg cow produces 200 g of protein per day.
- D. *Spirulina* when growing on sewage also reduces environmental pollution besides producing large quantities of protein .

Answer: B



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17. The proportion of young individuals is highest in :

- A. stable population
- B. declining population
- C. expanding population
- D. both stable and declining population

**Answer: C**

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18. Select the INCORRECT statement from the following.

- A. US \$ 33 trillion a year is the price tag given to ecosystem services

- B. The global gross national product is nearly half of the price tag given to ecosystem services .
- C. Of the total of various ecosystem services , the soil formation accounts for about 50 per cent .
- D. The cost of climate regulation and habitat for wildlife are about 6 percent together.

**Answer: D**



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**19.** The most delicate stage in the life cycle of an angiosperm where maximum mortality observed is the

- A. seed stage
- B. flowering stage



C. fruiting stage

D. seedling stage

**Answer: D**



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**20.** The pattern of biodiversity is affected by

A. latitudnal gradients

B. species-area relationships

C. both (a) and (b)

D. None of the above

**Answer: C**



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21. Air pollutants that produce photochemical smog include

- A.  $CO_2$ ,  $CO$ ,  $SO_2$
- B. nitrous oxide and fluorocarbons
- C. ozone, PNN and nitrogen oxides
- D.  $O_2$ ,  $CI$ ,  $SO_2$

**Answer: C**



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22. A triploid angiosperm is

- A. highly fertile
- B. normal
- C. sterile

D. sterile and seedless

**Answer: D**

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23. More than two alternate forms of a gene present on the same locus are called (i) . They are produced due to repeated (ii) of the same gene but in different directions. The well-known example is (iii) .

- A. (i) epistatic (ii) crossing (iii) polydactyly
- B. (i) multiple alleles (ii) mutations (iii) human blood groups
- C. (i) supplementary genes (ii) mutations (iii) hypertrichosis
- D. (i) linked (ii) genes over (iii) alkaptonuria

**Answer: B**

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24. The Lac operon gets switched on when

- A. repressor binds to operator
- B. lactose binds to the repressor protein
- C. RNA polymerase binds to operator
- D. lactose binds to RNA polymerase

**Answer: B**

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25. Choose the correct sequence of biotic succession for hydrosere.

- A. Phytoplankton → Floating stage → submerged stage →  
sedges → Reed swamp stage → Bushes → Bushes →

Trees

B. Zooplankton → Floating stage → submerged stage →

Read swamp stage sedges → Bushes → Trees

C. Phytoplankton → Zooplankton → Submerged stage →

Floating stage → Read swamp stage → sedges →

Bushes → Trees

D. Zooplankton → Submerged stage → Floating stage →

Sedges → Read swamp stage → Bushes → Trees

**Answer: C**



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**26.** Amongst the animal groups given below, which one has the highest percentage of endangered species?

- A. Insects
- B. Mammals
- C. Amphibians
- D. Reptiles

**Answer: C**

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**27.** Endosperms in angiosperms is:

- A. haustorial
- B. assimilatory
- C. Protective
- D. nutritive

**Answer: D**



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28. Select the incorrect function w.r.t gibberellin.

- A. Accelerates cell elongation only under in vitro conditions
- B. They are weakly acidic hormones
- C. First isolated from the fungus *Gibberella fujikuroi*
- D. They occur naturally in plants

**Answer: A**



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29. Which of the following can be related to the tissue called blood ?

- A. It has a fibre-free matrix but in collagen protein

B. It has both nucleated and non-nucleated cells, performing aerobic respiration

C. Blood is a specialised connective tissue

D. It is a form of dense connective tissue, having dense arrangement due to large count of RBCs

**Answer: C**

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**30. Match the column.**

	Column I		Column II
(a)	FSH	(i)	Prepare endometrium for implantation
(b)	LH	(ii)	Develops female secondary sexual characters
(c)	Progesterone	(iii)	Contraction of uterine wall
(d)	Estrogen	(iv)	Development of corpus luteum
		(v)	Maturation of Graafian follicle



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

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

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

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

**Answer: A**



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**31.** Which of the following are the reason(s) for Rheumatoid arthritis? Choose the correct option.

(i) Lymphocytes becomes more active

(ii) Body attacks self cells

(iii) More antibodies are produced in the body

(iv) The ability to differentiate pathogens or foreign molecules from self cells is lost

A. i, iii and iv

B. ii and iv

C. ii, iii and iv

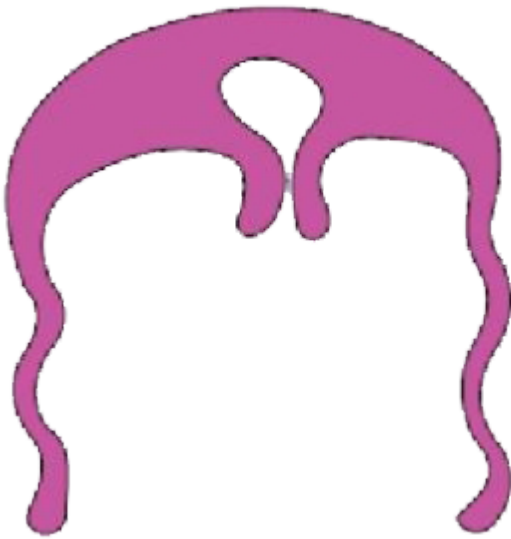
D. i and iv

**Answer: B**



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**32.** Which of the following statements is not correct regarding the figure given below ?



- A. Umbrella shaped and free swimming form
- B. Dominates in life cycle of Aurelia
- C. Produces polyps sexually in Obelia
- D. Shows alternation with polyp in Hydra and Adamsia

**Answer: D**



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33. During repolarization of nerve

- A.  $Na^+$  channels are closed and  $K^+$  channels are open inside the nerve membrane .
- B.  $K^+$  gate closed and  $Na^+$  gate opens inside the nerve membrane .
- C. Both  $K^+$  and  $Na^+$  gates are closed inside the nerve membrane.
- D. Both gates remain open inside the nerve membrane.

Answer: A



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34. Glucagon characteristically increase all the following except

- A. protein synthesis
- B. glycogenolysis
- C. lipolysis in adipose tissue
- D. gluconeogenesis in the liver

**Answer: A**



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**35.** ATPase enzyme needed for muscle contraction is located in

" " Or

The contractile protein of skeletal muscle involving ATPase activity is

- A. globular head of actin
- B. globular head of myosin
- C. active site of troponin

D. active site of tropomyosin

**Answer: B**

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**36.** In the IVF technique , which of the following is transferred into the fallopian tube ?

- A. Zygote
- B. Embryo upto 8 blastomere stage
- C. Embryo in 32 cell stage
- D. Either (A) or (B)

**Answer: D**

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37. In accordance with the study of industrial melanism in England, which of these is NOT correct ?

- A. Before industrialization, light-winged moths were more on trees than dark-winged moths.
- B. Dark winged or melanic moths were a mutant variety.
- C. After industrialization, melanic moths reduced number.
- D. Lichens could grow over tree trunk in a non-polluted atmosphere

**Answer: C**



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38. Which of the following is CORRECT match.

	Column I		Column II
(A)	ADA - deficiency	(i)	$\alpha - 1$ antitrypsin
(B)	Emphysema	(ii)	Bone marrow transplanation
(C)	Insulin	(iii)	Diabetes mellitus
(D)	Insect resistance	(iv)	T <sub>i</sub> - plasmid

- A. (A) – (ii) , (B ) – (i ) , ( C ) – (iii) , (D) – (iv)
- B. (A) – (i) , (B ) – (ii) , ( C ) – (iii) , (D) – (iv)
- C. (A) – (iii) , (B ) – (iv) , ( C ) – (ii) , (D) – (i)
- D. (A) – (iv) , (B ) – (iii ) , ( C ) – (ii) , (D) – (i)

**Answer: A**



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39. Read the following statements and find the incorrect one.



- A. Saliva is mainly produced by three pair of salivary glands.
- B. Saliva glands are situated just inside the buccal cavity.
- C. Hepatic lobules are the structural & functional unit of the liver .
- D. Most of the water is absorbed in the large intestine from the food reaching it.

**Answer: B**



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**40. .... activates the adrenal cortex to release aldosterone .**

- A. Renin
- B. Angiotensin I
- C. Angiotensin II

D. ANF

**Answer: C**



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**41.** Which of the following metal ions act as the co-factor for carboxypeptidase ?

A. Calcium ( $Ca^{2+}$ )

B. Iron ( $Fe^{2+}$ )

C. Zinc ( $Zn^{2+}$ )

D. Manganese ( $Mn^{2+}$ )

**Answer: C**



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42. A person suffers punctures in his chest cavity in an accident, without any damage to the lungs its effect could be

- A. reduced breathing rate
- B. rapid increase in breathing rate
- C. no change in respiration
- D. cessation of breathing

**Answer: D**



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43. Person with blood group AB is considered as universal recipient because he has

- A. both A and B antigens on RBC but no antibodies in the plasma

- B. both A and B antigens in the plasma.
- C. no antigen or RBC no antibody in the plasma
- D. both A and B antigens in the plasma but no antibodies

**Answer: C**

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**44.** What external changes are visible after the last moult of a cockroach nymph

- A. Mandibles become harder
- B. Anal cerci develop
- C. Both fore wings and hind wings develop
- D. Labium developse

**Answer: C**



**45.** Given below are a few statements related to external fertilisation. Choose the correct statements.

(i) The male and female gametes are formed and released simultaneously.

(ii) Only a few gametes are released into the medium.

(iii) Water is the medium in a majority of organisms exhibiting external fertilisation.

(iv) Offspring formed as a result of external fertilisation have better chance of survival than those formed inside an organism.

A. iii and iv

B. i and iii

C. ii and iv

D. i and iv

**Answer: B**



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**46.** Which of the following species cause the most fatal form of malaria?

A. *P. falciparum*

B. *P. malaria*

C. *P. vivax*

D. *P. ovale*

**Answer: A**



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47. Read the characteristics given below of a chordate:

- a) two-chambered heart
- b) poikilotherms
- c) exclusively marine
- e) oviparous with direct development
- e) separate sexes

Which of the following possess all of the above features?

A. Labeo

B. Rana

C. Trygon

D. Exocoetus

**Answer: D**



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**48.** In the spinal cord, white matter is

- A. surrounded by gray matter
- B. mixed with gray matter
- C. around the gray matter
- D. absent

**Answer: C**



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**49.** Parathyroid hormone secretion increases in response to

- A. increased secretion of insulin
- B. a decrease in blood calcium levels
- C. increased secretion of parathyroid - releasing hormone from the hypothalamus.



D. increased production of parathyroid - stimulating hormone  
from the anterior pituitary

**Answer: B**

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**50.** Muscular dystrophy can be associated with

- A. inflammation of muscles
- B. autoimmune disorder of muscles
- C. genetic disorder of muscles
- D. degenerative disorder of muscles

**Answer: C**

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51. Vasectomy prevent

- A. movement of sperm from urethra to testes
- B. movement of sperm from epididymis to vas deferens
- C. movement of sperm from vas deferens to urethra
- D. movement of sperm from testes to urethra.

**Answer: D**



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52. Stanley Miller in his experiment to prove the Oparin-Haldane hypothesis used .....and.....in the spark chamber.

- A.  $CH_3$ ,  $NH_3$ ,  $H_2O$
- B.  $CH_4$ ,  $NH_3$ ,  $H_2$

C.  $CH_4$ ,  $NH_3$ , Urea

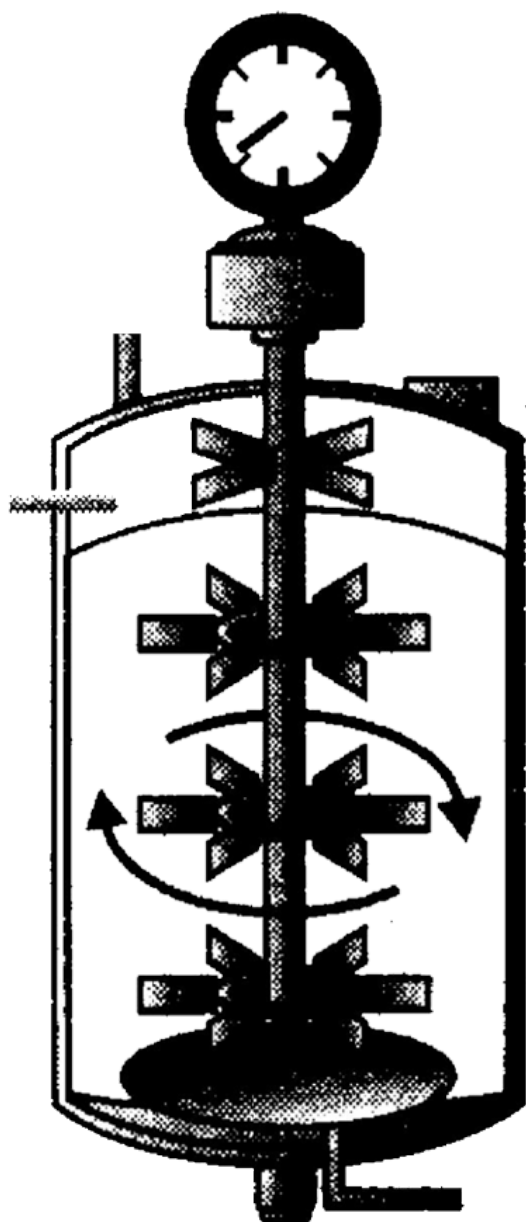
D.  $CH_4$ ,  $NH_3$ , Uric acid

**Answer: B**



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53. Identify the correct match for the given apparatus.



A. Apparatus      Function  
Gene gun      Vectriess direct gene transfer

B.

Apparatus                      Function  
Column chromatography      Separation of chlorophyll pigments

C. Apparatus                      Function  
Stirred tank bioreactor      Carry out fermentation process

D. Apparatus      Function  
Respirometer      Finding out rate of respiration

**Answer: C**



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**54.** Read the following statements and find out the INCORRECT statement .

(a) During urine formation, the tubular cells secrete substance like  $H^+$ ,  $Na^+$  and  $HCO_3^-$  into the filtrate.

(b) As glomerular filtrate move down in descending limb of Henle it gets concentrated and as concentrated filtrate pass upward in

ascending limb of HL it gets diluted.

(c) Conditional reabsorption of  $\text{Na}^+$  and water takes place in PCT.

(d) Reabsorption in ascending limb of HL is minimum.

A. a and b

B. b and c

C. c and d

D. a and c

**Answer: D**



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55. Living state is a ..... state able to perform work.

A. equilibrium, steady

B. non-equilibrium, unsteady

C. equilibrium, unsteady

D. non-equilibrium, steady

**Answer: D**



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**56.** Which of the statement about human respiratory system is INCORRECT?

A. Trachea is made up of 16-20 C shaped hyaline cartilaginous rings and is lined by pseudostratified ciliated columnar epithelium.

B. The amount of air which is present in the conducting part of respiratory system is 150 ml.

- C. The partial pressure of oxygen in inspired air is equal to partial pressure of oxygen in alveolar air.
- D. Humans have two pairs of vocal cords out of which only one pair helps in production of sound.

**Answer: C**

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**57.** Which of the following statements about the cardiac cycle is CORRECT?

- A. At no time during the cardiac cycle are the mitral and aortic valves both open.
- B. The pressure in the left atrium exceeds that of the left ventricle throughout the ventricular ejection period.



- C. Most filling of the ventricle in diastole in a resting individual occurs with atrial contraction.
- D. The second heart sound is most closely associated with the closure of the left atrioventricular (mitral) valve.

**Answer: A**



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**58.** Extrusion of second polar body from egg nucleus occurs

- A. after entry of sperm, before completion of fertilization
- B. after completion of fertilization
- C. before the entry of sperm
- D. has no relation with sperm entry

**Answer: A**



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59. Match the columns I and II, and choose the CORRECT combination from the options given.

	Column I		Column II
(a)	Typhoid	(i)	Chronic inflammation of lymphatic vessels
(b)	Pneumonia	(ii)	Dry scaly lesions on skin
(c)	Filariasis	(iii)	Chill and high fever recurring every 3-4 days
(d)	Ringworm	(iv)	Alveoli filled with fluid
(e)	Malaria	(v)	Intestinal perforations

A. a-iii, b-ii, c-i, d-v, e-iv

B. a-v, b-iv, c-i, d-ii, e-iii

C. a-i, b-ii, c-iii, d-v, e-iv

D. a-v, b-iv, c-i, d-iii, e-ii

**Answer: B**

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60. Which one of the following pairs of hormones are the examples of those that can easily pass through the cell membrane of the target cell and bind to a receptor inside it (mostly in the nucleus)

- A. Thyroxine, Insulin
- B. Somatostatin, oxytocin
- C. Cortisol, Thyroxine
- D. Insulin, glucagon

**Answer: C**

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61. The correct sequence of the of the substances appeared during the course of origin of life on earth was:

- A. glucose, ammonia , amino acids, nucleic acids, proteins.
- B. ammonia , amino acids, proteins , nucleic acid.
- C. nucleotides, ammonia , nucleic acid, enzymes.
- D. amino acids, ammonia , phosphates, nucleic acids.

**Answer: B**



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**62.** Find the INCORRECT match.

- A. PCR - amplification of the gene of interest.
- B. Cloning - Ability to form large number of copies of the recombinant DNA in the host cell like E. coli.
- C. Restriction enzymes - Molecular scissors
- D. Exonucleases - Molecular glue

**Answer: D**



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**63.** On analysis of a protein chain , it was found that it is made up of just a peptide bond. The possible structure of the protein is its

- A. primary structure.
- B. secondary structure.
- C. tertiary structure.
- D. quaternary structure.

**Answer: A**



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64. The most important feature in a plasmid to be used as a vector is :

- A. Origin of replication (ori)
- B. Presence of a selectable marker
- C. Presence of sites for restriction endonuclease
- D. All of these

**Answer: D**



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65. How many recombinant therapeutic have been approved for human - use all over the world ?

- A. 12
- B. 30

C. 20

D. 18

**Answer: B**



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**66.** Which of the following are true with reference to taxonomical aids?

1. Separate taxonomic keys are required for each taxonomic category.
2. Herbarium is a store house of collected plant and animal specimens.
3. Each statement in the key is called couplet.
4. Keys are used for identification purpose.

A. a and b

B. a and d

C. a and c

D. c and d

**Answer: B**



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**67.** A common structural feature of vessel elements and sieve tube elements is

A. enucleate condition

B. thick secondary walls

C. pores on lateral walls

D. presence of protoplasm

**Answer: A**





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**68.** Members of kingdom Protista are primarily .....

- A. photosynthetic
- B. unicellular eukaryotes
- C. aquatic
- D. Both (B) and (C)

**Answer: D**



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**69.** Match the columns I and II, and choose the correct combination from the options given.

Column I

Column II

(a) Haplontic life - cycle

(i) Gymnosperms and Angiosperms

(b) Diplontic life - cycle.

(ii) Spirogyra

(c) Haplo- diplontic life

(iii) Bryophytes and pteridophytes

A. a - i, b - iii, c - ii

B. a - iii, b - i, c - ii

C. a - ii, b - i, c - iii

D. a - ii, b - iii, c - i

**Answer: C**



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**70.** A cell organelle containing hydrolytic enzymes is :

A. Lysosome

B. Golgi bodies

C. Ribosome

## D. Mesosome

Answer: A

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71. Select the CORRECT option, for a somatic cell with  $2n = 4$ .

- |    |           |                   |   |                    |   |
|----|-----------|-------------------|---|--------------------|---|
| A. | $G_1$     | No. of chromatids | 2 | No. of chromosomes | 4 |
| B. | $G_2$     | No. of chromatids | 4 | No. of chromosomes | 4 |
| C. | Prophase  | No. of chromatids | 8 | No. of chromosomes | 4 |
| D. | Metaphase | No. of chromatids | 4 | No. of chromosomes | 8 |

Answer: C

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72. In neem, the leaf is

- A. simple leaf.
- B. pinnately compound leaf.
- C. palmately compound leaf.
- D. None of these

**Answer: B**



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73. Which of the following determines the diffusion of water from one cell to another ?

- A. Diffusion pressure deficit
- B. Hydrostatic pressure

C. Osmotic pressure

D. Wall pressure

**Answer: A**



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**74.** Read the following statements and choose the correct one from the options given below.

- (i) Hydroponics is the practice of growing plants in nutrient - enriched water , without soil.
- (ii) Hydroponics has been successfully employed as a technique for the commercial production of vegetables such as tomato.
- (iii) Hydroponics methods require purified water and non - mineral nutrient salts.
- (iv) The nutrient solutions should not be aerated to obtain optimum growth.

A. (i) and (ii) only

B. (i) and (ii) only

C. (i) , (iii) and (iv) only

D. (i) , (ii) , (iii) and (iv)

**Answer: B**



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**75.** Kranz anatomy is one of the characteristics of the leaves of

A. potato.

B. wheat

C. sugarcane.

D. mustard.

**Answer: C**



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76. Select the INCORRECTLY matched pair.

- A. End products of alcoholic fermentation - Ethanol +  $CO_2$
- B. End products of lactic acid fermentation - Lactic acid +  $CO_2$
- C. RQ of lipids - Less than one
- D. RQ of carbohydrates - One

**Answer: B**



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77. Read the following statements and find out the INCORRECT statement.

- a. Plant growth is unique because plants retain the capacity for

unlimited growth throughout their life.

b. Growth, at a cellular level , is principally a consequence of the increase in the amount of protoplasm.

c. One single maize root apical meristem can give rise to more than 3,50,00 new cells per hour , whereas cells in watermelon may increase in size by up to 17, 500 times.

d. Environmental signals such as light , temperature and gravity also affect certain phases or stages of growth.

e. In geometric growth, following mitotic cell division , only one daughter cell continues to divide while the other differentiates and matures.

A. b and d

B. c and a

C. a and e

D. c and e

**Answer: D**





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78. In plants , mosaic formation and yellowing of plant parts are the symptoms of .....

- A. bacterial diseases
- B. mycoplasmal diseases
- C. viral diseases
- D. fungal diseases

**Answer: C**



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79. Which of the following is the unique feature of brophytes ?

- A. Presence of vascular bundles

- B. Reproduction only by the formation of gametes
- C. Gametophyte attached to the sporophyte
- D. Sporophyte attached to the gametophyte

**Answer: D**

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**80.** RNA is absent in :

- A. Ribosome
- B. Nucleolus
- C. Plasmalemma
- D. More than one option is correct

**Answer: C**

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**81.** Disjunction is

- A. Chromosome separation during mitosis
- B. Chromosome separation during prophase I
- C. Chromosome separation in anaphase I
- D. Chromosome separation during metaphase I

**Answer: C**

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**82.** Pneumatophores are common in plants growing in saline marshy/ swampy area along seashores and estuaries. Select the CORRECT statement about such roots.

- A. These are modifications of adventitious root system.

- B. These are positively geotropic.
- C. These are negatively geotropic.
- D. None is correct

**Answer: C**

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**83.** In dicot stem, vascular bundles are

- A. Numerous and scattered.
- B. Arranged in a ring
- C. Without cambium
- D. Surrounded by bundle sheath

**Answer: B**

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84. Incomplete dominance is found in

- A. Starch grain size in pea.
- B. Flower colour in *Antirrhinum majus*
- C. Flower colour in the evening primrose
- D. More than one option is correct

**Answer: D**



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85. In photorespiration , the first stable product is

- A. oxalo acetate.
- B. phosphoglycerate.

C. phosphoglycerate and phosphoglycolate.

D. None of these

**Answer: C**

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**86.** Bending of stem/coleoptile towards light or shoot of potted plant placed near a window is due to

A. Greater oxygen availability to the tip

B. More auxin content on the shaded side

C. Greater light availability to tip

D. Availability of necessary warmth to the tip

**Answer: B**

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**87.** The smallest living cell is :

- A. Virus
- B. Viroid
- C. Mycoplasma
- D. Cyanobacteria

**Answer: C**

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**88.** Cell wall shows

- A. impermeability
- B. semipermeability

C. complete permeability

D. differential permeability

**Answer: C**



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**89.** The main edible part of coconut fruit is

A. endosperm

B. mesocarp

C. endocarp

D. epicarp.

**Answer: A**



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90. Read the given statements about lichens and select the incorrect ones.

- (i) They represent an example of commensalism.
- (ii) Algal partner obtains water and mineral salts from the fungus and the fungal partner obtains food prepared by the alga.
- (iii) These do not grow in polluted areas.
- (iv) The mycobiont is usually an Ascomycetes or a Basidiomycetes.
- (v) The phycobiont is mostly a green alga or a cyanobacterium.
- (vi) These constitute the pioneer community in case of hydrosere.

A. (i) and (ii)

B. (v) and (vi)

C. (i) and (vi)

D. (i) , (v) and (vi)

**Answer: C**



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