BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 43

Biology

1. Which light is a absorbed more by carotenoids ?

A. Yellow and green region

B. Blue - green and violet region

C. Yellow and orange - red region

D. yellow and blue - green region

Answer: B

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2. Read the following statements carefully :

(1) Gap junction facilitates the cells to communicate with each other by connecting the cytoplasm of two adjoining cells to cytoplasm of two adjoining cells .

(2) Adhering junctions help to stop substances from leaking across a tissue .

(3) compound epithelium covers the dry surface of the skin only and provides protection against chemical and mechanical stresses.

(4) most of the bones in vertebrates embryos are replaced by cartilages in adults.

How many of the above statement is/are correct ?

A. Four

B. Three

C. One

D. Two

Answer: D

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

A. Inner side of chloroplast outer membrane

B. Inner side of thylakoid membrane

C. Outer side of thylakoid membrane

D. Inner side of chloroplast outer membrane

Answer: B

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4. Which of the following structural order of ganglion are correctly represented in cockroaches ?

A. Supra- pharyngeal ganglion, supra-oesophageal ganglion , sub - oesophageal , prothoracic ganglion , meta - thoracic

ganglion , meta - thoracic ganglion , meso thoracic ganglion , 1- 6 abdominal ganglion.

B. Sub- pharyngeal ganglion, supra-oesophageal ganglion , meta - thoracic ganglion , meso - thoracic ganglion , pro - thoracic ganglion , 1- 6 abdominal ganglion.

C. Sub - oesophageal ganglion , supra - oesophageal , meso - thoracic ganglion , pro - thoracic ganglion , pro thoracic ganglion , meta - thoracic ganglion , 1 - 6 abdominal ganglion.

D. Supra - oesophageal ganglion , sub - oesophageal , pro - thoracic ganglion meso - thoracic ganglion , meta - thoracic ganglion , 1 - 6 abdominal ganglion

Answer: D

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5. At how many places in Krebs cycle , FADH2 is / are formed ?

A. 1

B. 2

C. 3

D. 4

Answer: A

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6. Which of the following event occurs during the repolarization phase of an action potential in the neuronal membrane ?

A. K+ inos rapidly move outside the cell

B. Na+ ions rapidly move inside the cell

C. N+ inos rapidly move outside the cell

D. K+ ions rapidly move inside the cell

Answer: B

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7. Which of the following is the correct sequence of glycolysis ?

A.

$$G6P \rightarrow PEP \rightarrow 3 \rightarrow PGAL \rightarrow 3 \rightarrow PGA$$

B.

$$G6 - P \rightarrow 3 - PGAL \rightarrow 3 - PGA \rightarrow PEP$$

C.

$$G6 - P \rightarrow PEP \rightarrow 3 - PGA \rightarrow 3 - PGAL$$

D.

$$G6 - P \rightarrow 3 - PGA \rightarrow 3 - PGAL \rightarrow PEP$$

Answer: B

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8. Reflex actions are given by neuronal pathways called reflex arcs , which comprise different components. What should be the correct sequence of its components in withdrawal reflex after touching the hot things suddenly to withdraw the finger ?

A. Afferent neuron $\rightarrow$ Efferent neuron $\rightarrow$ Interneuron $\rightarrow$ Receptor $\rightarrow$ Effector

B. Effector $\rightarrow$ Afferent neuron $\rightarrow$ Efferent neuron $\rightarrow$ Interneuron $\rightarrow$ Receptor

C. Receptor $\rightarrow$ Afferent neuron $\rightarrow$ Efferent neuron $\rightarrow$ Effector

D. Receptor $\rightarrow$ Afferent neuron $\rightarrow$ Interneuron $\rightarrow$ Efferent neuron $\rightarrow$ Effector

Answer: D

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9. The growth of the following system per unit time which is expressed on a common basis or

per unit initial parameter is known as

A. Absolute growth rate

B. Relative growth rate

C. Both (a) and (b)

D. Exponential growth rate

Answer: B

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10. The process that removes apical dominance is

?

A. Removal of shoot tips

B. Provide plants with a lot of auxin

C. Both (a) and (b)

D. None of these

Answer: A

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11. Glycogen is a homopolymer made up of

A. Glucose units

B. Galactose unit

C. Ribose units

D. Amino untis

Answer: A

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12. Match the items in the column I with those in the column II.

Column – I		Column – II	
A.	Ca	1.	Chlorosis
B.	Mo	2.	Delayed flowering
C.	Fe	3.	Necrosis
D.	Cl	4.	Photolysis of water

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

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

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

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

Answer: A

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13. All of the following features are associated with Myosin head of heavy meromyosin (HMM) of muscle Protein, except

A. Myosin binding site

B. ATP binding site

C. Actin binding site

D. ATPase enzyme activity

Answer: A

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14. The biological levels of organization of living things arranged from the simplest to most complex are,

A. Biosphere , ecosystems , communities populations, organisms , organ systems, organs , tissues , cells and organelles.

B. Biosphere , communities , ecosystems, organisms, populations , organ system, organs , tissues , cells and organelles.

C. Organelle , cells , tissues , organs , organ system , organisms , populations ,

communities , ecosystems, and biosphere.

D. Cells, organisms , tissues , organs , organ systems , organisms , populations, communities , ecosystem , and biosphere .

Answer: C

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15. Match the following and mark the correct option :

	Column-I		Column-II
(a)	Myasthenia gravis	(i)	Radius and ulna
(b)	Gliding joint	(ii)	Genetic disorder of muscles
(c)	Muscular dystrophy	(iii)	Knee joint
(d)	Hinge joint	(iv)	Between the carpals
(e)	Pivot joint	(v)	Auto-immune disorder of muscles

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

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

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

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

Answer: A

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16. Minerals are absorbed by the roots from the soil in the form of

A. very dilute solution

B. very concentrated solution

C. ions

D. molecules

Answer: C

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17. Beijernick concluded that the cause of tobacco mosaic disease was not a filtrate toxin because

A. the infectious agent could be crystallized

B. the infections agent could be crystallized

C. the infectious agent reproduced and could be passed on from a plant infected with filtered sap

D. the sap was infectious even though it was filtered to remove bacterias.

Answer: D

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18. Which of the following hormones control 24 - hour diurnal cycle or rhythmic activity of human body ?

A. Thymosin

B. Melanin

C. Melatonin

D. Thyroxine

Answer: C

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19. Rust and smut disease of fungi are caused by fungi belonging to

A.	Rust Puccinia	Smut Ustilago	Ascomycetes
B.	Rust Puccinia	Smut Ustilago	Basidiomycetes
C.	Smut Puccinia	Rust Ustilago	Basidiomycetes
D.	Smut Puccinia	Rust Ustilago	Ascomycetes

Answer: C

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20. Consider the following match of hormones and select the incorrect one :

A. Cortisol : Anti - inflammatory , immuno - suppressive and stimulate RBC production

B. Thyroxine : Regulate BMR , maintain water - electrolyte balance and support RBC formation.

C. Adrenaline : prepare body for emergency or '3F' conditions.

D. Calcitonin : Decreases bone calcium level in human body .

Answer: D

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21. The main difference in Gram (+ve) and Gram (-ve) bacteria resides in their:

A. Differential staining of cell wall

B. Special staining of cell wall

C. Simple staining of cell wall

D. Positive staining of cell wall

Answer: A

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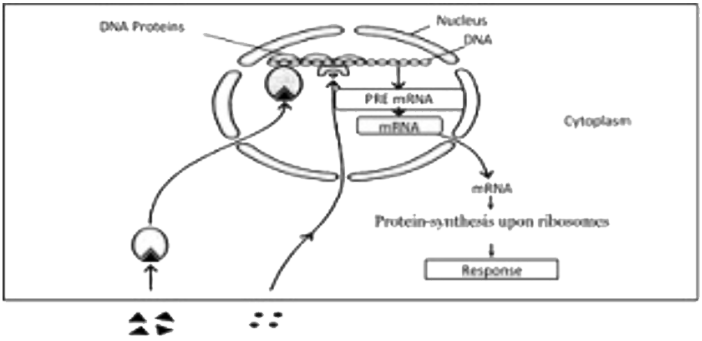
22. The diagram given below is related to which of the following set of hormones ?



A. Cortisol , Estradiol , Gonadotropins

B. Testosterone, Oxytocin , Estradiol

C. Corticoids , Iodothyronines , steroids

D. Catecholamines , Steroids , Cortisol

Answer: C

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23. Cryptogams do not have

A. Xylem vessels and sieve tubes

B. Tracheids and sieve tubes

C. Vessels , sieve tubes and companion cells

D. Tracheids and companion cells

Answer: C

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24. Which of the following is the least and most abundant leucocytes in human blood, respectively ?

A. Basophils , Neutrophils

B. Neutrophils , Basophils

C. Eosinophil's , Neutrophils

D. Basophils, Lymphocytes

Answer: A

25. Juvenile state of moss is

A. Protonema

B. Capsule

C. Prothallus

D. all

Answer: A

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26. All given factors promote absorption of water by roots , except

A. well - aerated soil

B. highly concentrated soil solution

C. optimum soil temperature

D. available soil water

Answer: B

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27. A person has cardiac output 5600ml / minute and stroke volume 70 ml . What would be the number of heartbeat in 2 minutes in this person

A. 80 heart beats

B. 70 heart beats

C. 140 heart beats

D. 160 heart beats

Answer: D

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28. Female gametophyte of a typical dicot at the time of fertilization is

A. 8 - celled

B. 7 - celled

C. 6 - celled

D. 4 - celled

Answer: B

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29. Read the following four statements (1-4)

(1) The second heart sound is DUB, which is associated with the closure of bicuspid and tricuspid valves .

(2) The duration between consecutive second and first heart sound is 0.5 second in a cardiac cycle .

(3) The heartbeat of a human increase when the adrenaline hormone in injected into it.

(4) The atrial systole in a cardiac cycle increase the flow of blood into the respective ventricle by

about 70% .

How many of the above statements are incorrect ?

A. Three

B. Four

C. Two

D. One

Answer: C

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30. Significance of double fertilization is to

A. gives rise to an endosperm that provides nourishment to the developing embryo

B. increases the viability of the seeds.

C. use both the male gametes.

D. all of these

Answer: D

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31. Which of the following ions are actively secreted into the filtrate by tubular cells of nephron during urine formation ?

A. NH_3, H^+, Na^+

B. Na^+, K^+, NH_3

C. $K^+ H^+, HCO_3^-$

D. $K^+ NH_3, H^+$

Answer: D

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32. Even in absence of pollinating agents , seed setting is assured in :

A. Zostera

B. Salvia

C. Fig

D. Commelina

Answer: D

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33. Crossing over occurs between ..... Chromatid of ..... chromosome.

A. Sister , homologous

B. Non - sister homologous

C. Non - sister , non homologous

D. Sister , homologous

Answer: B

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34. How many statements are not incorrect ?

(1) schleiden gave the cell hypothesis.

(2) Golgi bodies are extensive and continuous with the oute membrane of the nucleus .

(3) Endomembranous system contains vacuoles

(4) Peroxisome coordinator with Golgi bodies .

A. Three

B. One

C. Two

D. Four

Answer: B

35. Which of the following statements is not true for chylomicrons?

A. Chylomicrons are formed inside the lumen of small intestine .

B. chylomicrons are protein coated fat droplets

C. Chylomicron contains triglycerides , cholesterol and phospholipids

D. Chylomicron released from epithelial cells of small intestine into lacteals.

Answer: A

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36. The biosynthetic phase of photosynthesis is

A. directly dependent on the presence of light

B. directly dependent on the products of the light reaction.

C. only dependent on CO_2 and water.

D. not dependent on ATP and NADPH.

Answer: B

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37. How many of the following cell organelles are bound by a single membrane ? Mitochondria,

Lysosome, peroxisome , Golgi body, Nucleus , Nucleolus, ER , Spherosome , Ribosomes

A. 4

B. 5

C. 6

D. 7

Answer: B

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38. Match the following respiratory volume with their value and select the correct option :

	Column-I		Column-II
(A)	Tidal Volume	(I)	$2500\ ml\ to\ 3000\ ml$
(B)	Residual Volume	(II)	$1100\ ml\ to\ 1200\ ml$
(C)	Expiratory Reserve Volume	(III)	$1000\ ml\ to\ 1100\ ml$
(D)	Inspiratory Reserve Volume	(IV)	$500\ ml$

A. A - IV , B - II , C - III , D - I

B. A - IV , B - III , C - II , D - I

C. A - I , B - II , C - III , D - IV

D. A - IV , B - I , C - II , D - III

Answer: A

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39. Which of the following two features are present in meiosis but absent in mitosis ?

A. Pairing of non - homologous chromosome

B. Pairing of homologous chromosome and recombination between them

C. Replication of chromosome

D. All of these

Answer: B

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40. All of the following factors are favourable for the formation of oxyhaemoglobin, except

A. High pO2

B. Less H+ ions concentration

C. Low pH

D. Low Temperature

Answer: C

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41. Which of the following arrangements of xylem is found in the stem of plants ?

A. Endarch

B. Exarch

C. Mesarch

D. Polyarch

Answer: A

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42. Which one of the following statements pertaining to plant structure is correct

A. The sclerenchyma comprises of isodiametric cells and forms the major component with organs.

B. Xylem parenchyma cells are dead thin - walled with a cell wall made of pectin.

C. Tracheids are elongated or tube - like cells with thick and lignified walls and no

protoplasm.

D. Parenchymatous cells provide mechanical support to the internal organs.

Answer: C

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43. Select the incorrect match about evolution .

A. Origin of earth : 4500 million years ago

B. Origin of Universe : 20 million years ago

C. Origin of first cellular form of life : 2000 million years ago

D. Origin of first non - cellular form of life : 3 billion years ago

Answer: B

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44. What is a species ?

A. A basic unit in the phylogenic history of living organisms

B. A group of related populations from evolutionary point of view.

C. A basic category containing most of the taxonomic information

D. A population of similar characteristics which forms evolutionary basis of variation

Answer: D

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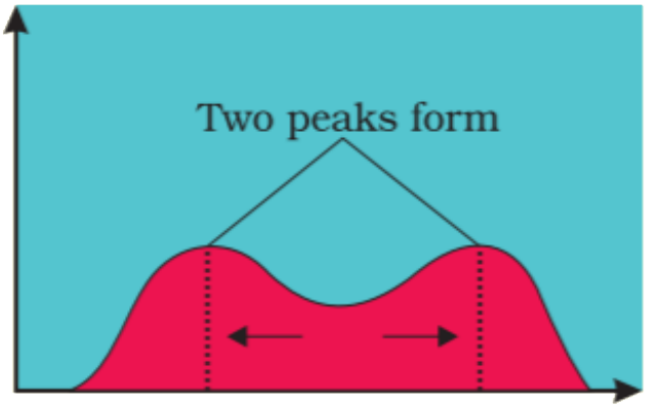
45. In the diagram, the x-axis denotes the number of individuals with a certain phenotype. The dotted lines denote the phenotypes favoured by natural selection. Which of the following inferences can be drawn from the given diagram?



A. This natural selection will lead to stabilisation .

B. In this pattern of natural selection, more individuals will acquire the mean character value.

C. This natural selection will lead to a directional change.

D. This natural selection will lead to disruption.

Answer: D

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46. The packaging of chromatin at a higher level requires an additional set of proteins that collectively are rerferred to as

A. Non - histone chromosomal proteins

B. Small nuclear ribonucleoprotein (SnRNP)

C. Nucleoplasmin protein

D. Ribophorin protein

Answer: A

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47. Which of the following is a family of monocots ?

A. Leguminoseae

B. Solanaceae

C. Liliaceae

D. Brassicaceae

Answer: C

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48. Read the following statements about the evolution of man and choose the option which correctly states true ((T)) or false ((F)):

(A.) The first human-like being the hominid was called Homo erectus with cranial capacities between 650-800 cc.

(B.) The cranial capacity of modern man is closer and similar to Neanderthal man.

(C.) During ice age 1,00,00-40,000 years ago, modern Homo sapiens arose.

(D.) The skull of an adult chimpanzee is more like a baby human skull.

A. A - T , B - T , C - T , D - F

B. A - T , B -F , C - T , D - F

C. A-F , B - T , C - F , D - F

D. A - F , B - T , C - T , D - F

Answer: C

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49. Select the correct statement from the following:

A. Fleshy cylindrical stem in Euphorbia carries out

photosynthesis.

B. Pistia and Eichhornia are examples of offset.

C. Underground stem of grass and strawberry spread to new niche and when older part die new plants are formed.

D. Thorns are woody, straight and pointed.

A. A and B only

B. B and D only

C. B and C only

D. All of these

Answer: D

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50. Select the correct option with respect to characteristic. Features of given animals :

(A) Annelida : Metamerically segmented and schizocoelomate animals.

(b) Arthropoda : joined appendages with a closed circulatory system.

(C) Ctenophora: shown bioluminescence and also known as sea walnuts.

(d) porifera : Archaeocytes are called collar cells. lines the spongocoel .

A. (a) , (b) , (c) are correct.

B. (a) , (c) , (d) are correct

C. (b) and (d) are incorrect

D. only (d) is incorrect

Answer: C

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51. Which of these organisms show budding?

A. Yeast

B. Hydra

C. Spongilla

D. All of these

Answer: D

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52. Which of the following is not a fundamental character of a chordate?

A. Rod like soild structure Notochord present dorsally.

B. Solid , ventral and double nerve cord

C. Paired Pharyngeal gill slits

D. Heart is ventral in all

Answer: B

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53. In china rose the flowers are

A. Actinomorphic , hypogynous with twisted aestivation .

B. Actinomorphic , epigynous with valvate aestivation.

C. Zygomorphic , hypogynous with imbricate aestivation.

D. Zygomorphic , egigynous with twisted aestivation.

Answer: A

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54. Match the followings and choose correct option.

Group A	Group B
A. Aleurone layer	(ii)Without fertilisation
B. Parthenocarpic fruit	(ii)Nutrition
C. Ovule	(iii)Double fertilisation
D. Endosperm	(iv)Seed

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

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

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

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

Answer: B

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55. Which one of the following statement is not correct about once-a-week pill for females?

A. It is Saheli oral contraceptive pills for females developed by scientists of CDRI , Lucknow .

B. It is newly discovered contraceptive pills to be taken orally having progesterone - estrogen hormone combination.

C. It is with very few side effects and having high contraceptive value.

D. It prevents Implantation by changing the nature. Of endometrium of uterus.

Answer: B

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56. Choose the correct pair from the following regarding responses to abiotic factors.

A. Aestivation : Phytoplankton

B. Hibernation : seals

C. Dormancy : snails

D. Diapause : zooplankton

Answer: D

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57. Which of the following assisted reproductive techniques is used in the test - tube - baby programme ?

A. Zygote intra fallopian transfer (ZIFT)

B. Gamete intra fallopian transfer (GIFT)

C. Artificial Insemination (Al)

D. Intra uterine insemination (IUI)

Answer: A

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

A. AGGUACGCAU

B. ACCUAUGCGAU

C. UGGTUTCGCAT

D. UCCAUAGCGUA

Answer: A

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59. Which of the following statements is not correct about Hisardale ?

A. It is newly developed breed of sheep

B. It is a type of outcrossing

C. It is an example of cross breeding

D. It is developed by crossing Bikaneri rams and Marino ewes.

Answer: D

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60. What is the criterion for DNA fragments movement on agarose gel during gel electrophoresis ?

A. The smaller the fragment size, the farther it moves.

B. Positively charged fragments move to farther end.

C. Negatively charged fragments do not move.

D. The larger the fragment size , the farther it move.

Answer: A

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61. Which of the following cells product factors that help in maturation of spermatids to spermatozoa ?

A. Leydig cells

B. Sertoli cells

C. Spermatogonia

D. Both (A) and (B)

Answer: B

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62. Some of the steps involved in the production of humulin are given below. Choose the correct sequence

(1) Introduction of the recombinant plasmid into E . Coli.

(2) Extraction of a recombinant gene product from E. Coli.

(3) Culturing recombinant E .coli in bioreactors.

(4) Insertion of the human insulin gene into a plasmid.

A. 2,1,4,3

B. 1,3,2,4

C. 4,1,3,2

D. 3,2,1,4

Answer: C

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63. Read the following statements carefully.

(1) Female external genitalia include labia majora , labia minora , clitoris , vagina, and hymen .

(2) In female, at puberty , both ovaries contain about 60,000-80,000 primary follicles .

(3) The progesterone hormone concentration

remains high prior to ovulation in the follicular phase of the follicular phase of the menstrual cycle .

(4) The second meiotic division of secondary oocyte is completed inside ovary only after the entry of sperm.

How many from the above are incorrect statements ?

A. Four

B. Three

C. Two

D. One

Answer: A

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64. Match the columns

	Column-I		Column-II
(A)	Emphysema	(1)	Test to detect antigen or antibody
(B)	Rosie	(2)	α-1 antitrypsin
(C)	ELISA	(3)	Protein enriched milk
(D)	ROP	(4)	Codes for proteins involved in plasmid replication

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

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

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

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

Answer: C

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65. Which of the following is/are used to induce parturition ?

A. Oxytocin

B. Pitocin

C. Estrogen

D. Both (A) and (B)

Answer: D

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66. Stirred-tank bioreactors have been designed for

A. addition of preservatives to the product

B. availability of oxygen throughout the process

C. ensuring anaerobic conditions in the culture vessel

D. Purification of product

Answer: B

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67. Which of the following is a plasmid ?

A. pBR322

B. BamHII

C. Sall

D. EcoRll

Answer: A

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68. In which of the following disease, the number of T_H cells in body considerably decreases over the period of time ?

A. AIDS

B. Cancer

C. Malaria

D. Typhoid

Answer: A

69. Select the incorrect statement.

A. Insertional inactivation technique helps in identification of the recombinant

transformants with non - transformants by forming colourless colonies.

B. Insertional inactivation of β - galactosidase leads to the formation of colourless colonies.

C. Insertional inactivation of β - galactosidase leads to the formation of blue colour colonies.

D. In insertional inactivation , the rDNA is inserted within the coding sequence of an enzyme β galactosidase.

Answer: C

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70. Read the following matching carefully :

(i) Artificial active immunity : vaccination

(ii) Natural passive immunity : Anti - tetanus serum (ATS)

(iii) First line of defense : physical barriers

(iv) Anamnestic responses : Quick and highly intensified response

(V) Graft rejection : Due to cell - mediated immunity (CMI)

How many from the above matching's are correct

?

A. Five

B. Four

C. Three

D. Two

Answer: B

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71. Find out the correct statement .

A. Totally unrelated species could also compete for the same resources .

B. Resources need not to be limiting for competition to occur.

C. In interference competition , feed efficiency of one species might be reduced due to the interfering and inhibitory presence of the other species , even if resources are abundant .

D. All are true .

Answer: D

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72. In the formula $\frac{dn/}{dt} = rN\left(\frac{K - N/}{\mathrm{K})}\right), \left(\frac{K - N/}{K}\right)$ stands for

A. Environmental resistance

B. Reproductive potential

C. Growth rate

D. Carrying capacity

Answer: D

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73. Which of the following statements is not true for cocaine ?

A. It is commonly called coke or crack and is usually snorted.

B. It is obtained from coca plant Erythroxylum coca.

C. It has potent suppressing action on central nervous system.

D. It interferes with the transport of dopamine neurotransmitter.

Answer: C

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74. Find out the correct statement. :

A. Trophic level represents a functional level , not a species as such .

B. A given species never occupies more than one trophic level in the same ecosystem at the same time .

C. In most of the ecosystems , producers are less in number and biomass than the herbivores.

D. Pyramid of energy can never be upright .

Answer: A

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75. In a terrestrial ecosystems such as forests, maximum energy is found in

A. T_1

B. T_2

C. T_3

D. T_4

Answer: A

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76. Find the incorrect statement .

A. Sixth extinction' is different from previous extinction terms of rate of extinction.

B. Ecologists warn that if the present trend of extinction continues , nearly 50 percent of all species on earth might be wiped out within the next 100 years.

C. Amphibians appear to be more vulnerable to extinction.

D. Recent extinction is completely natural.

Answer: D

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77. Hotspots are characterized by

A. Very high species richness

B. High degree of endemism

C. Region of accelerated habitat loss

D. All of these

Answer: D

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78. Which one of the following pairs of organisms are exotic species introduced in India

A. Ficus religiosa , Lantana camara

B. Lantana camara , Water hyacinth

C. Water hyacinth , prosopis cineraria

D. Nile perch, Ficus religiosa

Answer: B

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79. Select the incorrect match .

A. EI Nino effect - odd climatic changes

B. Radioactive leakage - Three Mile island

C. Biomagnification - Hg and DDT

D. Haryana Kisan Welfara Club - Ahmed Khan

Answer: D

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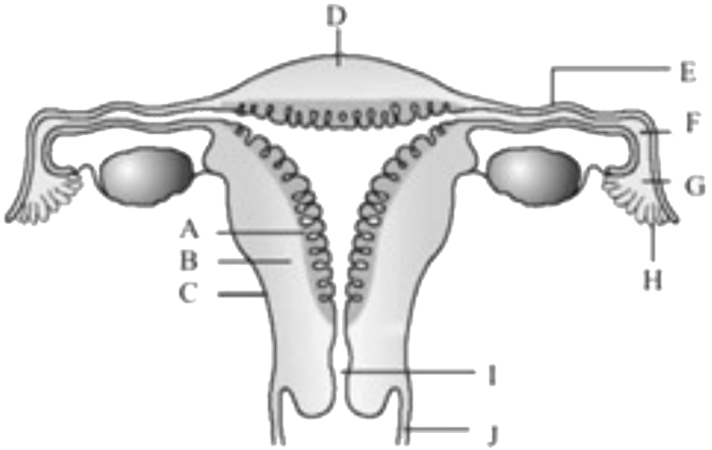
80. Diagrammatic view of female reproductive system is given below. Select the incorrect option on the basis of labls given .



A. I + J = Birth canal

B. Fallopian tube = E + F + G + H

C. D represents infundibulum

D. A + B + C = Uterine wall layers.

Answer: C

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81. Which of the following statements is correct for colourblindness ?

A. It is due to mutation in certain genes present on y chromosome.

B. It occurs more in females as compared to male.

C. The son of the carrier woman has 50 % chances be being colour blind.

D. It is autosomal linked genetic disorder.

Answer: C

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82. Find the correct statement regarding DNA.

A. Form a double helical structure made up of two polypeptide chain.

B. It is an acidic substance present in nucleus was first identified by F. Meischer in 1869.

C. Phosphate group is linked to 5' H of the nucleoside byglycosidic linkage .

D. All four deoxyribonucleotides are always equally present in the strands .

Answer: B

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83. If a completely radioactive double - stranded DNA molecule undergoes two rounds of replication in a non - radioactive medium, what will be the radioactive status of the four resulting molecules ?

A. All four still contain radioactivity

B. Three out four contain radioactivity

C. Radioactivity is lost from all four

D. Half the number contain no radioactivity.

Answer: D

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84. The recent record of 2000 years old viable seed is of

A. 1000

B. 2000

C. 3000

D. 500

Answer: B

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85. Which one of the following is an incorrect matching of a microbe and its industrial product ?

A. Monscus purpureus - statins

B. Acetobacter aceti - Acetic acid

C. Clostridium butylicum - Lactis acid

D. Aspergillus niger - Citric acid

Answer: C

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86. Once BOD from the sewage is reduced significantly, the 'flocs' are allowed to sediment and it is known as .....

A. primary sludge

B. secondary sludge

C. activated sludge

D. inactivated sludge

Answer: C

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87. An explant is

A. dead plant

B. part of the plant that is not totipotent.

C. part of the plant used in tissue culture

D. part of the plant that expresses a specific gene

Answer: C

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88. 1 : 1 : 1 : 1 ratio of progenies can be obtained if the plants employed for crossing are

(A.) $\mathrm{TTRR} \times \mathrm{ttRR}$

(B.) $\mathrm{TtRR} \times \mathrm{ttrr}$

(C.) $\mathrm{TtRR} \times \mathrm{ttrr}$

(D.) $\mathrm{TtRR} \times \mathrm{ttRR}$

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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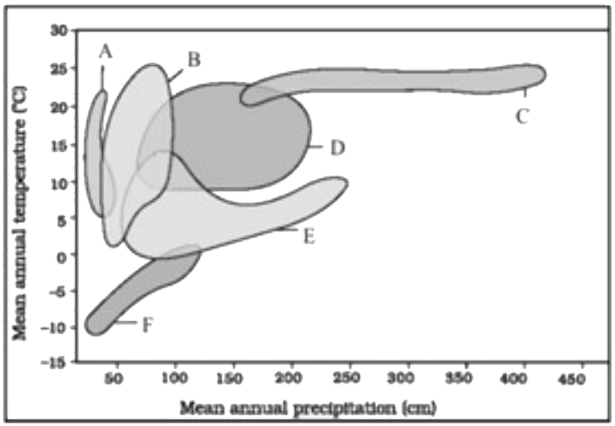
89. In the given diagram , Biome distribution is shown with respect to annual temperatrue and

precipitation. Select the correct option.



	Temperate forests	Grasslands	Arctic and Alpine tundra
(a)	C	E	A
(b)	D	B	F
(c)	E	B	F
(d)	F	A	C

A. a

B. b

C. c

D. d

Answer: B

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90. Which one of the following is a wrong statement ?

A. Most of the forests have been lost in tropical areas.

B. Ozone in upper part of atmosphere is harmful to animals .

C. Greenhouse effect is a natural phenomenon

D. Eutrophication is a natural phenomenon in freshwater bodies.

Answer: B

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