



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 52

Biology

1. Red tide is caused by an organism which closely by a organism which structures ?



A.

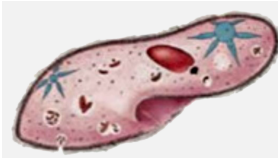
B.



C.



D.



Answer: A



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2. Observe the labeling in the diagram and identify A and B



A. A - Cortical nephrons (65-50% of total nephrons)

B - Juxtaglomerular neurons (35 - 50 % of total nephrons)

B. A - Juxtaglomerular neurons (85 - 90 % of total nephrons)

B - Corticular nephrons (10-15% of total nephrons)

C. A - Corticular nephrons (80-50% of total nephrons)

B - Juxtaglomerular neurons (15 - 20 % of total nephrons)

D. A - Corticular nephrons (25- 30% of total nephrons)

B - Juxtaglomerular neurons (75 - 80 % of total nephrons)

Answer: C



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3. Steller's sea cow from Russia , described by George Wilhelm steller become extinct due to

A. Habitat destruction

B. Over - exploitation

C. Bird - flu virus infection

D. Pollution

Answer: B



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4. Individuals homozygous for 'xy' genes were crossed with wild type '++'. The F_1 dihybrid thus produced was test crossed. It produced progeny in the following in the following ratio '+ + ' 900, '+y ' 115, 'xy' 880, 'x+' 105. Find out the recombination frequency .

- A. 47 map units
- B. 88 map units
- C. 11 map units
- D. 5.75 map units

Answer: C



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5. During an enzyme catalyze reaction , the substrate reaches a transition stage Which is

- A. Temporary but stable
- B. Permanent but unstable
- C. Temporary and unstable
- D. Permanent and stable

Answer: C



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6. The eukaryotic , multicellular , saprophytic organisms reproduce sexually by

- A. Zygosporos , ascospores, basidiosporos
- B. Zoosporos, ascospores, basidiosporos
- C. Sporangiosporos and conidia

D. Zygosporos zoospores, basidiospores

Answer: A



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7. Which of the following is incorrect matched with its characteristic and the taxon ?

	Animal	Characteristics	Taxon
I)	<i>Trygon</i>	Poison sting	Chondrichthyes
II)	<i>Scoliodon</i>	Ampulla of Lorenzini	Chondrichthyes
III)	<i>Exocoetus</i>	Pectoral fins are large & wing- like	Osteichthyes
IV)	<i>Hippocampus</i>	Male Parental care	Chondrichthyes

A. I

B. II

C. III

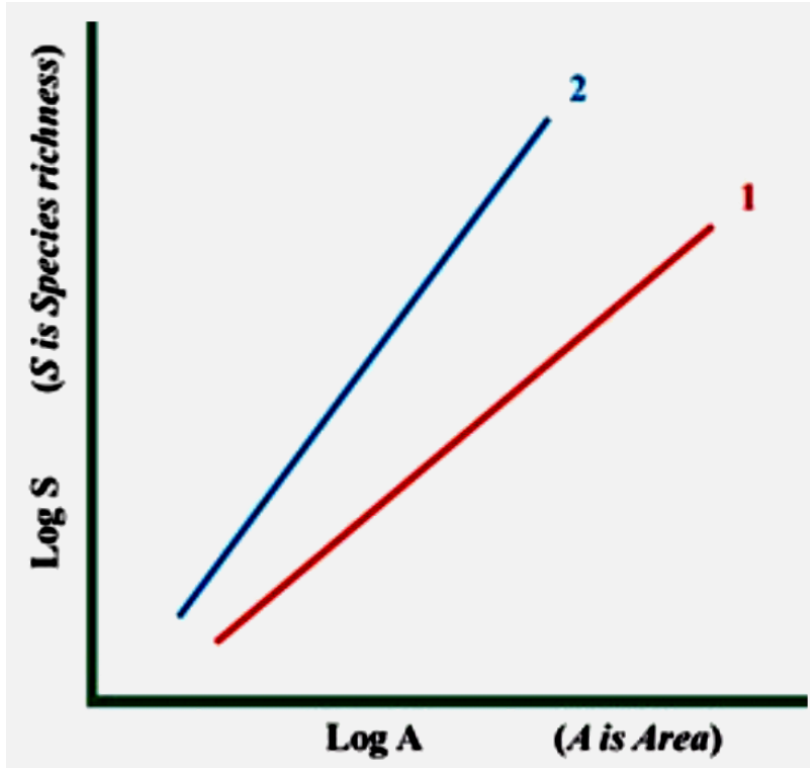
D. IV

Answer: D



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8. Observe the graph of area versus species richness and select the options that explain lines 1 and 2.



A. 1 - Molluscs in New York State and 2 - plants in Britain

B. 1 - plants in Britain and 2 - birds in California

C. 1 - frugivorous birds and mammals in the tropical forests of different continents and 2 - plants in Britain

D. 1 Molluscs in New York state and 2 frugivorous birds and mammals in the tropical forests of different continents

Answer: D

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9. The correct difference between the embryonic development of monocot and dicot plants is

A. In monocots, suspensor is single celled while in dicots it contains 6 - 10 cells

B. In monocots endosperm is formed before embryo while in dicots embryo is formed before endosperm

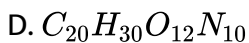
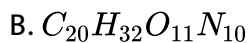
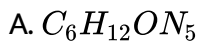
C. In dicots , coleoptile and coleorhiza are seen while they are not seen in monocots

D. In dicots the growth of embryo is lateral but in monocots it is vertical

Answer: A

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10. What will be the molecular formula of a polypeptide consisting of 10 glycine residues ?



Answer: B

11. The throat swab of a patient with a sore throat , hoarseness of voice, and difficulty in breathing was taken. The organism was observed under the microscope and was identified as corynebacterium diphtheriae. The following is an image of the slide.



What is the Nature of the organisms?

- A. They are spherical organisms without a well - developed nucleus
- B. They are rod shaped organisms without a well - developed nucleus
- C. They are spherical organisms with a well - developed nucleus
- D. They are rod shaped organisms a well - developed nucleus

Answer: B

12. Systolic blood pressure of a patient was 140 mm Hg while his diastolic blood pressure is 90 mm Hg . If this is not controlled , it can lead to

- (a) Heart disease
- (b) Brain hemorrhage
- (c) Damage of the blood vessels of kidney
- (d) Failure in conducting system

A. a,b,c and d

B. a, b and c

C. Only a and b

D. b and c only

Answer: B



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13. Analyze the given options and select the one that corresponds to have the least percentage value.

- A. The percentage of drugs currently sold in the market worldwide which are derived from plants
- B. The estimated percentage of total oxygen in the earth's atmosphere produced by Amazon forest through photosynthesis.
- C. The percentage of tropical rain forests covering the earth's land surface presently .
- D. The percentage of India share of the global species diversity

Answer: C



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14. The study of mutations is easy in haploids as compared to diploids , because

- A. Haploids are more abundant in nature than diploids

- B. All mutations, whether dominant or recessive are expressed in haploids
- C. They are reproductively more stable than diploids
- D. Mutagens penetrate in haploids more effectively than in diploids

Answer: B

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15. The immune regulator molecule prostaglandin is derived from

- A. Oligosaccharides
- B. fatty acids
- C. Steroids
- D. amino acids

Answer: B

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16. How many of the following fungi belong to the group 'Sac-Fungi'?

Ustilago, Aspergillus, Neurospora, Trichoderma, Albugo, Claviceps, Saccharomyces, Colletotrichum

A. Two

B. Four

C. Five

D. Three

Answer: B



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17. Cardiac output is defined as the amount of blood

A. Pumped by the left atrium per hour

B. Received by the heart in one minute

C. Pumped by each ventricle per minute

D. Pumped by both ventricles per second

Answer: C



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18. Match the process of decomposition with the event that occurs in it :



A. i-A, ii -B,iii -C

B. i-B, ii-C, iii - A

C. i-C , ii - B, iii-A

D. i-C, ii - A, iii-B

Answer: C



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19. Which point of difference between Geitonogamy and Xenogamy is incorrect ?

A.

Geitonogamy Xenogamy
It is self - pollination It is cross pollination

B.

Xenogamy Geitonogamy
It produces fewer variations If produces a lot of variations.

C.

Geitonogamy Xenogamy
It occurs between two flowers of same plant It occurs between two

D.

Geitonogamy
Pollination occurs between genetically genetically dissimilar plants

Answer: D



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20. Some strains of *Bacillus thuringiensis* produce protein that kill certain
Insects such as armyworm. Armyworm is

A. dipteran

B. lepidoptera

C. Coleopteran

D. all of these

Answer: B



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21. Protoxylem is towards pith and metaxylem is towards periphery in

A. (i) endarch xylem (ii) exarch xylem .

B. (i) exarch xylem (ii) endarch xylem

C. (i) diarch xylem (ii) polyarch xylem

D. (i) hexarch xylem (ii) tetrarch xylem

Answer: A



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22. The endocrine glands that produces somatostatin also produces

- A. Insulin and glucagon
- B. Progesterone and oestrogen
- C. Thyroxine and calcitonin
- D. Somatostatin and prolactin

Answer: A



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23. Which of these is not a correct difference between carbon cycle and phosphorus cycle ?

- A. Carbon cycle is gaseous type of nutrient cycle while phosphorus cycle is a sedimentary type of nutrient cycle.
- B. The reservoir of carbon is ocean while the reservoir of phosphorus is rock

C. In carbon cycle , there is respiratory release of carbon into atmosphere while this doesn't happen in phosphorus cycle

D. Atmospheric inputs of phosphorus through rainfall are much larger than carbon inputs

Answer: D

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24. The shape and starch synthesis in pea seeds is controlled by one gene. Which among the following statements is/ are correct for heterozygotes ?

(i) Round seeds are due to the law of dominance while the size of the starch grain is due to the law of incomplete dominance .

(ii) Round seeds are due to law of incomplete dominance while the size of the starch grain is due to the law of dominance .

(iii) Dominance is not an autonomous feature of a gene or the product that it has information for.

- A. Both (i) and (ii) are correct but (ii) is false
- B. Both (ii) and (iii) are correct but (i) is false
- C. Both (i) and (iii) are correct but (ii) is false
- D. Only (i) is correct and both (ii) & (iii) are false

Answer: C

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25. RNA interference involves

- A. Silencing of a specific mRNA due to a complementary dsRNA molecule that binds to and prevents translation of the mRNA
- B. Silencing of a specific mRNA due to a complementary ssRNA molecule that binds to and prevents translation of the mRNA
- C. Silencing of a specific mRNA due to a complementary dsRNA molecule that binds to and prevents post - transcriptional

processing of the mRNA

D. Silencing of a specific mRNA due to a complementary ssRNA molecule that binds to and prevents post - transcriptional processing of the mRNA

Answer: A

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26. Observe this image of a cut section of the tree . What would be the approximate age of this tree ?



- A. 7 years
- B. 10 years
- C. 14 years
- D. 28 years

Answer: C



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27. The outermost layer of adrenal cortex , zone glomerulosa is associated with

- A. Water and electrolyte balance
- B. Carbohydrate metabolism
- C. Steroid and hormone secretion Blood pressure
- D. Blood pressure

Answer: A



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28. Read the following statements and state how many of them are true ?

(P) primary succession , is a very slow process taking thousands of years for the climax to be reached .

(Q) All succession whether taking place in water or land proceeds to a similar climax community, the mesic.

(R) As succession proceeds, the number and types of animals and

decomposers also change.

(S) Saprophytes are not given any place in the ecological pyramids as they play no role in the ecosystem.

A. 1

B. 2

C. 3

D. 4

Answer: C



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29. Michelia has

A. multiple carpels which are free from each other

B. multiple carpels which are fused to each other

C. single carpel

D. an inferior ovary

Answer: A



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30. If the molecular mass of an amino acid is 150 daltons, the molecular mass of a tripeptide will be

A. 414

B. 486

C. 504

D. 450

Answer: A



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31. $2NO_2^- + O_2 \rightarrow 2NO_3^-$ This step of nitrification is done bybacteria

- A. Pseudomonas
- B. Thiobacillus
- C. Nitrobacter
- D. Nitrococcus

Answer: C



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32. Which of these hormones is not produced by hypothalamus cerebri ?

- A. Growth hormone
- B. Follicular stimulating hormone
- C. Oxytocin
- D. Adrenocorticotrophic hormone .

Answer: C



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33. Which of the following names of environmental activists are matched correctly with their work ?

I. Amritadevi Bishnoi : Conservation of trees in Jodhpur

II. Ramesh Chandra Dagar : organic farmer in Sonipat

III. Ahmed Khan : Remedy for plastic waste in Bangalore

A. I and II

B. I and III

C. II and III

D. I, II and III

Answer: D



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34. How many types of genetically different gametes will be produced by a heterozygous plant having the genotype AABbCc?

- A. Two
- B. Four
- C. Six
- D. Nine

Answer: B



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35. In order to isolated the DNA from a suspension of *Bacillus subtilis*, which of the following enzymes will be required to break open the cell's ?

- A. Cellulase
- B. Lysozyme
- C. Chitinase

D. Ribonuclease

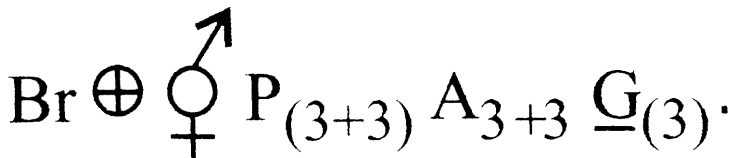
Answer: B

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36. Consider the following four statements (i),(ii),(iii) and (iv)

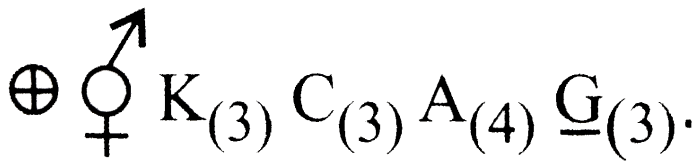
(i) In vexillary aestivation, the large posterior petal is called standard, two lateral ones are called wings and two small anterior petals are termed as keel

(ii) The floral formula for Liliaceae is



(iii) In pea flower, the stamens are monadelphous

(iv) The floral formula for Solanceae is



The correct statement are

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

Answer: B

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37. RAAS is a system involving Many organs . Which of these statements about RAAS is false ?

- A. It operates in response to decrease in blood pressure or blood volume

B. The JG cells release an enzyme renin which converts angiotensinogen into a peptide angiotensin ,I

C. Angiotensin II inhibits the release of aldosterone from adrenal gland

D. Angiotensin II increases blood pressure by causing arterioles to constrict

Answer: C



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38. Photochemical smog is characterized by the absence of

A. Ozone

B. nitrogen dioxide

C. Carbon dioxide

D. PAN

Answer: C



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39. Observe the diagrams and state the nutritive layer (s) of microsporangium.



A. A and C

B. B and E

C. B and D

D. Only E

Answer: D



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40. A simple stirred tank bioreactor has all of the following properties, except

- A. It is usually cylindrical or with a curved base to facilitate the mixing of the reactor contents
- B. The stirrer facilitates even mixing and oxygen availability throughout the bioreactor
- C. Foam control system is present
- D. Sterile air bubbles are sparged into the simple stirred tank bioreactor

Answer: D

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41. Which of the following stages of plasmodium is correctly depicted in the transmission between female Anopheles mosquito and humans ?

A. 

B. 

C. 

D. 

Answer: D

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42. Observe the following leaf of papaya and state its type .



A. Pinnately compound leaf

B. Palmately compound leaf

C. Simple palmate leaf

D. Decompound leaf

Answer: C

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43. Reptiles of different shapes and sizes dominated Earth. Which reptile went back into water to evolve into fish like reptiles 200 mya ?

- A. Ichthyosaurs
- B. Tyrannosaurus
- C. Hemidactylus
- D. Pelycosaurs

Answer: A

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44. Observe the following pedigree chart and state the correct statement about it.



- A. The parents are homozygous recessive
- B. The trait is Y - linked
- C. The parents are homozygous dominant
- D. The Parents are heterozygous

Answer: D

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45. Choose the correct statement from the following

- A. Internal fertilisation shows a greater degree of synchrony due to the production of a large number of gametes.
- B. Offsprings born external fertilisation are extremely vulnerable to predators.
- C. Both birds and reptiles show external

D. Non - motile male gametes are the characteristic feature of internal fertilisation.

Answer: B

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46. Which of the partial pressure are equal ?

- A. pO_2 in atmospheric air and pO_2 in alveoli
- B. pO_2 in alveoli and pO_2 in oxygenated blood
- C. pCO_2 in oxygenated blood and pO_2 in deoxygenated blood
- D. pCO_2 in oxygenated blood and pCO_2 in tissues

Answer: C

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47. All the following statements about cannabinoids are true , except

- A. Cannabinoids are known for their effects on cardiovascular system
- B. Cannabinoids are obtained from leaves and flowers of hemp plant.
- C. Cannabinoids interact with cannabinoid receptors present principally in brain .
- D. Coke or Crack is a very commonly abused cannabinoid .

Answer: D



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48. Cave paintings by pre - historic humans can be seen at Bhimbetka rock shelter in Raisen district of Madhya Pradesh . Such pre - historic cave art developed about

- A. 18,000 years
- B. 24,000 years

C. 53,000 years

D. 10,000 years

Answer: A



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49. Select the chromosomal disorders from the following diseases affecting humans

I. Haemophilia

II. Down's syndrome

III. Klinefelter's syndrome

IV. Sickle cell anemia

V. Turner's syndrome

VI. Thalessemia

A. All except II, III and IV

B. All except I and IV

C. All except I, IV and VI

D. All except I, III and VI

Answer: C



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50. Arrange the various respiratory volume in ascending order .

A. Tidal Volume → Residual Volume → Expiratory Reserve Volume

→ Inspiratory Reserve Volume

B. Tidal Volume → Expiratory Reserve Volume → Residual Volume

→ Inspiratory Reserve Volume

C. Tidal Volume → Residual Volume → Inspiratory Reserve Volume

→ Expiratory Reserve Volume

D. Residual Volume → Tidal Volume → Inspiratory Reserve Volume

→ Expiratory Reserve Volume

Answer: B



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51. *Allium cepa* show all the following properties, except

- A. It has cymose inflorescence with umbellate clusters
- B. During unfavorable conditions , the aerial part of the plant dies but the stem bulbs survive and develop into shoots .
- C. Its flower has three green sepals and tree pink patals
- D. It is placed in the same family as that of *colchicum autumnale*

Answer: C



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52. Which of these statements about cancer is incorrect ?

- A. Cellular oncogenes (c - onc) are present in normal cells which have not become cancerous

B. Antibodies against cancer- specific antigens are used for detecting of certain cancers

C. MRI used strong magnetic field and ionizing radiations to accurately detect pathological and physiological change in the living tissue

D. Cancers can be treated using alpha interferon which activities immune system and help in destroying tumor cells .

Answer: C



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53. Which of the following options has an odd pair ?

A. Sting of honey bee and scorpion

B. Wing of an insect and bat

C. Stipules of Lathyrus and petiole of Acacia

D. Forelimbs of frog and human

Answer: D



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54. Identify this stage of mitosis and match it with its properties .



- A. Late anaphase - chromosomes move away from equatorial plate,
Golgi complex not present
- B. Cytokinesis - cell plate formed , mitochondria distributed between
two daughter cells
- C. Telophase - Tetrad formation
- D. Telophase - Nuclear envelop reforms ,Golgi complex reforms

Answer: D



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55. The property not shown by the "amphibians of the plant kingdom" is

- A. The plant body is thallus like, attached to substratum by help of rhizoids
- B. The antherozoids are released in water for fertilization
- C. Zygote formed undergoes meiotic division immediately
- D. They have leaf like, stem like and root like structures

Answer: C



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56. Given below is a labelled diagram of the mammary gland, of which some parts are labelled as A, B, C and D.

Based on these labels, choose the part that contains the cluster of cells which secrete milk



A. A

B. B

C. C

D. D

Answer: A



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57. Plants adapted to deserts have

A. Sunken stomata

B. Deep roots

C. Thick cuticle

D. All the above

Answer: D



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58. The nucleus of a gamete of an animal has 5 pg DNA. What will be the content of DNA in the somatic cell of the same animal at the end on G2 phase ?

A. 10 pg

B. 5 pg

C. 20 pg

D. 40 pg

Answer: C



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59. Which of the following properties correctly describes the plant depicted in this diagram ?



- A. It produces seeds but they are not enclosed fruits.
- B. It has gametophyte and sporophyte
- C. It is a vascular cryptogam placed under class Lycopsidea
- D. It shows protonema stage in its life cycle and doesn't bear true roots

Answer: B



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60. The correct statement of cleavage in humans is

- A. It is a process to convert zygote to gastrula.
- B. It starts while the fertilized egg is in fallopian tube.
- C. It is identical to normal mitosis .
- D. It is starts when the egg reaches the uterus.

Answer: B



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61. Observe the table depicting interactions between various organism and select the correct option :

Species	Species	Name of Interaction
+	+	Mutualism
-	-	<i>A</i>
+	-	<i>B</i>
+	-	Parasitism
+	0	<i>C</i>
-	0	<i>D</i>

(+) Beneficial (-) detrimental (0) Neutral

A. A : Commensalism , B : Predation , C : Amensalism , D : Amensalism

B. A : Predation , B : Parasitism , C : Commensalism , D : Amensalism

C. A : Competition , B : Parasitism , C : Commensalism , D : Amensalism

D. A : Competition , B : Predation , C : Amensalism , D : Commensalism

Answer: C



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62. Match the chromosomes with their properties :



A. 1 - iv , 2 - iii , 3- ii , 4 - i

B. 1 - i , 2 - ii , 3- iii , 4 - iv

C. 1 - ii , 2 - iv , 3- iii , 4 - i

D. 1 - iv , 2 - i , 3- iii , 4 - ii

Answer: C



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63. Which of these varieties of wheat is biofortified ?

A. Kalyan sona

B. Sonalika

C. Atlas 66

D. Himgiri

Answer: C



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64. Which of the following is incorrect about the uterine wall ?

- A. Perimetrium - Outer thin covering of peritoneum
- B. Myometrium - Middle thick smooth muscle layer
- C. Mesometrium - smooth muscle layer below myometrium
- D. Endometrium - Inner glandular layer that lines the uterine cavity

Answer: C



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65. How many of the following glands release their secretions that don't have a zymogen in them ?

Fundic glands , parotid glands, pancreatic acini , Hepatic lobules ,

Intestinal glands,

A. 1

B. 2

C. 4

D. 5

Answer: B



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66. The Golgi cisternae are concentrically arranged convex cis or the maturing face.

A. Concave cis or the forming face and convex cis or the maturing face

B. Concave cis or the forming face and convex trans or the maturing face .

C. Convex trans or the forming face and concave cis or the maturing face.

D. Convex cis or the forming face and concave trans or the maturing face.

Answer: D



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67. Which of the following is correct about binomial nomenclature ?

A. Both the words in binomial name, when handwritten, are separately underlined.

B. Both generic name and the specific epithet are printed in italics .

C. Generic name starts with a small letter and the specific epithet starts with a small letter.

D. Both (A) and (B) are correct

Answer: D



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68. An anteriorly convex curve is seen in which region of the vertebral column ?

A. Thoracic

B. Lumbar

C. Sacral

D. Both (A) and (C)

Answer: B



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69. Which of these microbes is used in the inoculum to form curd ?

- A. Lactobacillus acidophilus
- B. Agrobacterium tumefaciens
- C. Streptococcus thermophiles
- D. Streptococcus faecalis

Answer: A



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70. Membrane bound organelles are absent in

- A. Plasmodium
- B. Saccharomyces
- C. Streptococcus
- D. Chlamydomonas

Answer: C



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71. How many statements about diffusion is /are false ?

- (i) The diffusion rate depends on the size of the substrate.
- (ii) Diffusion across the membrane depends upon its solubility in lipids.
- (iii) Membrane protein provides sites for a hydrophilic substance to cross the membrane.
- (iv) Facilitated diffusion is carried out by Proteins .

A. 0

B. 1

C. 2

D. 3

Answer: A



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72. In each of the following options , there is one property and two structures . Among the two structures, whichever follows the property is marked 'Y' while the one doesn't is marked 'N' . In which of these options ,it is incorrect ?

	Property	Structural aspects	N/Y
i)	Higher amount sarcoplasmic reticulum	Red muscles	N
		White muscles	Y
ii)	Smaller size in contracted myofibril	I band	Y
		A band	N
iii)	An involuntary muscle with stripes	Skeletal muscle	N
		Cardiac muscle	Y
iv)	ATP is required	Muscle contraction	N
		Muscle relaxation	Y

A. i.

B. ii.

C. iii.

D. iv.

Answer: D



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73. Which of the following options shows correct pairing of alcohol and the substrate from which it is obtained ?

- A. Beer : wheat, Rum : Molasses , whiskey : Barley and vodka : potato.
- B. Beer : Barley malt , Rum Molasses , whiskey : cereals and vodka: potato .
- C. Beer : Juices of fruits ,Rum : potato , whiskey : wheat and vodka : Molasses .
- D. Beer : Barley malt, Rum : potato , whiskey : Fermented juices and vodka : Molasses .

Answer: B



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74. Wobble hypothesis cannot be applied to the tRNA Carrying which of the following amino acids .

- A. Tryptophan and cysteine
- B. Cysteine and serine
- C. Tryptophan and Methionine
- D. Serine and Methionine

Answer: C

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75. All the following plants are biennials except

- A. Sugarbeet
- B. Cabbage
- C. Carrot
- D. Pea

Answer: D

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76. Multiload 375 acts as a contraceptive because

- A. it prevent ovulation.
- B. it releases progesterone hormone .
- C. it releases copper ions which suppress the motility and fertilizing capacity of sperm .
- D. it decreases sperm mortality and increases sperm motility.

Answer: C



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77. The essential photosynthetic pigment has a at carbon atom 3 of the pyrrole ring - II of chlorophyll a .

- A. Methyl group
- B. Ethyl group

C. Carboxyl group

D. Magnesium

Answer: A



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78. How many of these statements are correct ?

(i) In transcription , adenosine pairs with uracil.

(ii) Regulation of lac operon by a repressor is referred to as positive regulation .

(iii) The human genome has approximately 50,000 genes.

(iv) DNA fingerprinting utilizes VNTRs and RFLP.

A. Two

B. Three

C. Four

D. One

Answer: A



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79. With respect to photoperiodism, site of perception of light/ dark duration is

- A. Root apex
- B. Shoot apex
- C. Flower
- D. Leaf

Answer: D



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80. Louise joy Brown is an English women who was the first test - tube baby . She was born by a process in which

- A. Fertilization is external and foetus formation is internal
- B. Fertilization is internal and foetus formation is external
- C. Both fertilization and foetus formation are internal
- D. Both fertilization and foetus formation are external

Answer: A



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81. Match the mode of dark reaction with their correct example .

- a* Calvin Cycle *i* Kalanchoe
- b* C_4 Plants *ii* Zea mays
- c* CAM plants *iii* Triticum

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

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

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

D. a - (i) , b - (ii) , c - (ii)

Answer: C



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82. Mark the incorrect differences between eukaryotic and prokaryotic transcription.

I. In eukaryotes , the genes are split having exons and introns while in prokaryotes it isn't .

ii The structural gene which is to be transcribed is generally mono-cistronic in prokaryotes and poly-cistronic in eukaryotes .

III . The RAN formed with the help of RNA polymerase in eukaryotes requires future processing to function as m-RNA while in prokaryotes it is directly used as m - RNA.

IV. In eukaryotes, RNA polymerase binds to the promoter region while in prokaryotes it binds to the operator region .

A. I and IV

B. II and III

C. II and IV

D. III and IV

Answer: C



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83. Male and female gametophytes are independent and free-living in

A. Mustard

B. Castor

C. Pinus

D. Sphagnum

Answer: D



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84. Which of the following statements is correct regarding association areas in the cerebrum ?

- A. It contains large regions which are sensory
- B. It is present in cerebral cortex
- C. It is responsible for simple functions of brain.
- D. It is present in rhombencephalon.

Answer: B



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85. Substrate level phosphorylation occurs during

- A. Citric acid \rightarrow alpha - ketoglutaric acid
- B. Malic acid \rightarrow oxalo - acetic acid
- C. alpha - ketoglutaric acid \rightarrow Succinly Co A
- D. Succinyl-co A \rightarrow Succinic acid

Answer: D



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86. The following list contains some connective tissue . Which of these is/are present beneath our integument ?

(a.) Areolar tissue

(b.) Adipose tissue

(c.) Dense irregular connective tissue

A. Only b

B. Both a & c

C. Both a and b

D. a , b , and c

Answer: D



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87. Observe this floral diagram. What does the part denoted by the arrow indicate ?



- A. The position of bract in the flower
- B. The position of petiole or stalk of the flower
- C. The position of thalamus of the flower
- D. The position of the mother axis with respect to the flower

Answer: D



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88. All statements about electrical synapses are correct except

- A. The membranes of pre-and post synaptic neurons are in very close proximity

- B. Transmission of impulse across this synapse is very similar to impulse conduction along a single axon
- C. Impulse transmission is always faster than that across a chemical synapse
- D. Electrical synapses are very common in our body

Answer: D



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89. During glycolysis , water is released along with the formation of

- A. 3- phosphoglyceric acid
- B. Phosphoenol pyruvic acid
- C. Dihydroxy acetone phosphate
- D. 3- phosphoglyceric acid

Answer: B



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90. Which of these differences between male and female cockroaches (*Periplaneta americana*) is correct ?

- A. The testis in male cockroach is longer than the ovary in female cockroach.
- B. The male cockroach has anal cerci while female cockroach has an anal style.
- C. The male cockroach has one chromosome less than the female cockroach .
- D. The spermatheca is found in male cockroach while ootheca is found in the female cockroach .

Answer: C



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