



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 73

Biology

1. What is the correct about the axolemma before acquiring the stage of depolarisation ?

- A. Negative outside
- B. Positive outside
- C. Neither Positive nor N negative
- D. Initially Positive then negative

Answer: B



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2. Find the number of correct math in the following :

I. Cancer : cells loose contact inhibition

II. Crack or coke : Usually snorted

III. Hashish : A cannabinoid

IV. Smoking : causes lymphoma

V. Hepatitis B : Transmitted by sexual contact and needles.

A. Five

B. Four

C. Three

D. Two

Answer: B



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3. The passage through which movement of RNA and protein is molecules takes place in both directions is

- A. nuclear pore
- B. Plasmodesmata.
- C. Kinetochores
- D. Nucleoli

Answer: A

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4. Read the statements (A – D)

P. Sesamoid joint is a type of fibrous joint between cranial bones.

Q. IDDM is an auto immune disorder .

R. Tetany is characterized by rapid spasms in nerve.

How many of the above statements are false ?

A. None

B. One

C. Two

D. Three

Answer: C



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5. Identify the antibody on the basis of following information -

I. Exist as monomer II. Highest in concentration in blood .

A. IgG

B. IgM

C. IgE

D. IgA

Answer: A

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6. In the stem of a typical dicot plant , pericycle exists in the form of patches . These patches are formed by

- A. Parenchymatous cell
- B. Collenchymatous cells
- C. Sclerenchymatous cells
- D. Both a and c

Answer: C

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7. Select the incorrect statement.

- A. Bipolar neuron has only one dendrite.
- B. Pia mater is in contact with brain .
- C. Afferent fibres carry impulses from CNS to peripheral tissues .
- D. Granular bodies are found in dendrites of neuron .

Answer: C



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8. Which species of plasmodium is responsible for the most common type of malaria in India ?

- A. Plasmodium vivax
- B. Plasmodium malariae
- C. Plasmodium falciparum

D. Plasmodium ovale

Answer: A

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9. Which of hormones is secreted by anterior pituitary ?

- A. GH and Somatostatin
- B. ADH and prolactin
- C. TSH and Mammothrophic hormone
- D. ICSH and oxytocin

Answer: C

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10. (i) Cork cambium is an example of lateral meristem .

(ii) In the young dicot stem. Cambium present in patches as a single layer between xylem and phloem.

(iii) Interfascicular cambium and Interfascicular cambium combinedly from cambial ring.

In given Statements, which of the following are correct ?

A. i and iii

B. i and ii

C. ii and iii

D. i, ii and iii

Answer: D

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11. Select the incorrect match .

- A. Adrenal cortex - Mineralocorticoids
- B. Thyroid gland - Two elongated oval lobes
- C. Hyperthyroidism - Exophthalmic goitre
- D. Cortisol - peptide hormone

Answer: D

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12. Which one is the following set of reproductive organ are external genitalia of male and female ?

- A. Glans penis & Clitoris
- B. Scrotum & Cervix
- C. Bulbo-urethral glands & Bartholin's gland
- D. Prostate gland & Skene's gland

Answer: A



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13. Read the following statements

A. Zone reticulate form the inner layer of adrenal cortex .

B. Insulin is a peptide hormone secreted by beta cells of pancreas in pancreatic juice .

C. Parathormone and thyroxine are antagonistic hormone .

How many statements are incorrect ?

A. None

B. One

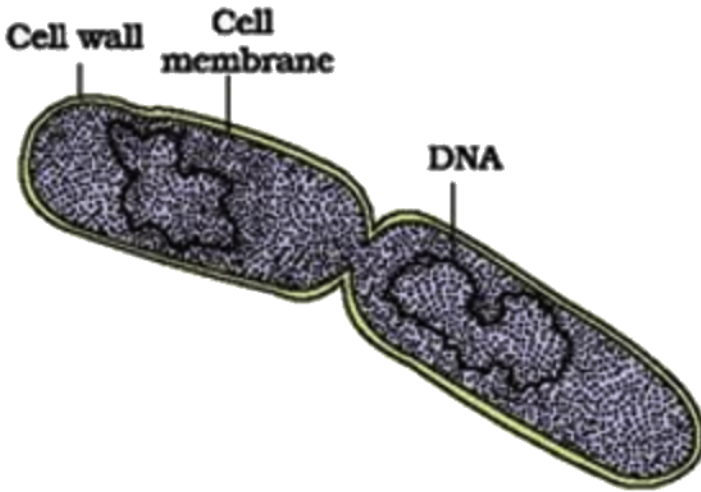
C. Two

D. All

Answer: C



14. Reproduction in bacteria is shown in following diagram . Select the correct match.



- | | | |
|----|----------------------|--------------|
| A. | Mode of Reproduction | Conditions |
| | Buddig | Favourable |
| B. | Mode of Reproduction | Conditions |
| | Binary fission | Favourable |
| C. | Mode of Reproduction | Conditions |
| | Spore formation | Unfavourable |
| D. | Mode of Reproduction | Conditions |
| | Budding | Unfavourable |

Answer: B

15. Read the statements given below :

(i) The first movements of the foetus are usually observed during 7th months of pregnancy.

(ii) Umbilical cord possess 100 percent foetal blood.

(iii) At puberty , in female each ovary contain about 60,000 - 80,000 primary follicles.

Choose the correct Statement from the above

A. i, ii and iii

B. i and ii

C. iii only

D. i only

Answer: C

16. (i) Aristotle classified plants into herbs , shrubs and trees on the basis of morphology.

(ii) Linnaeus two Kingdom classification was based on presence or absence of cell wall.

(iii) R.H. Whittaker include heterotrophic and chitinous cell wall organisms in animals.

Select the correct options.

A. i and iii are options.

B. ii and iii correct .

C. ii is incorrect .

D. iii is correct .

Answer: D



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17. Menstrual cycle is ceased during pregnancy is due to negative feedback of :

A. FSH

B. ADN

C. Oxytocin

D. Progesterone

Answer: D



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18. Which of the following is not related with kingdom Protista ?

(i) Chief producers in and ocean are diatoms.

(ii) some members show bioluminescence.

(iii) These include golden algae.

(iv) many members are multicellular.

A. i and iii

B. ii and iv

C. ii and iii

D. Only iv

Answer: D



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19. Thee cross that leads to the production of the hinny is

A. Male donkey X Female horse

B. Female donkey X male horse

C. Female X Female donkey

D. Stallion X male

Answer: B



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20. Select the incorrect match with respect to fungi.

A. Class Member Common name
Phycomycetes Mucor, Albugo Algal fungi

B. Class Member Common name
Basidiomycetes Rust and smut Club fungi

C.

Class Member Common name
Deuteromycetes Trichoderma, Colletotrichum Imperfect fungi

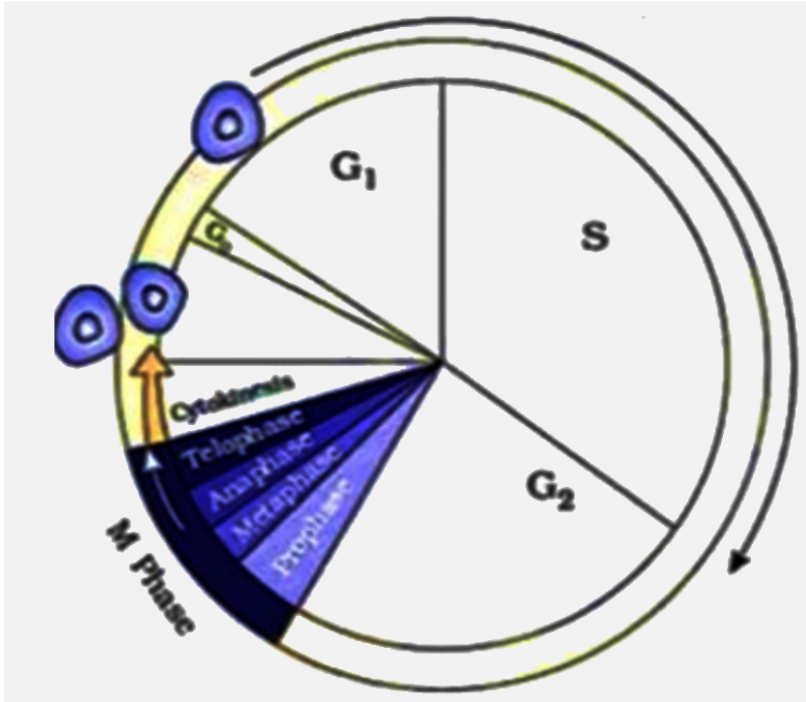
D. Class Member Common name
Ascomycetes Puffballs Truffles, Claviceps Sac fungi

Answer: D



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21. Which of the following correctly related with given diagram ?



(i) sequence of cell cycle = $G_1 - S - G_2 - M$ phase

(ii) A cell exist G_1 phase to enter an inactive stage - Quiescent stage or G_0

(iii) G_1 phase is the interval between mitosis and Initiation of DNA replication .

(iv) In G_1 phase DNA synthesis occurs.

A. i and ii

B. ii , iii and iv

C. Only ii

D. i , ii and iii

Answer: D

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22. What is correct about the test-tube baby program ?

A. The fertilisation of ovum with sperms occurs outside the female body , in the laboratory.

B. The resultant zygote upto 8 - blastomere stage is transferred to test tube for further development into baby.

C. In vitro fertilization is followed by embryo transfer into fallopian tube or uterus of female.

D. Both (a) and (c)

Answer: D

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23. How many of the given Statements are correct ?

A. National Botanical Institute is located at Lucknow .

B. Monographs help in identification of correct species.

C. Muscidae is the order of housefly.

A. None

B. One

C. Two

D. All

Answer: C

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24. AZT (3' - azido 2', 3' dideoxy thymine) is used in the treatment of

- A. Malaria
- B. AIDS
- C. Cholera
- D. Kala-azar

Answer: B

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25. Microfilaments are involved in

- A. Cyclosis
- B. Amoeboid movement
- C. Furrow formation during cell division

D. All of these

Answer: D

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26. (i) Mitochondria and chloroplasts possess small and circular non-histones DNA.

(ii) Mesosomes are extension of plasma membrane .

(iii) Quasi fluid nature of lipid enables flip flop movement of Proteins at specific place .

(iv) Components of endomembrane system associated with secretion , packaging of material and capable of digestion of several macro organic compounds .

From given , incorrect statement is / are

A. i and iii

B. ii and iv

C. ii, iii and iv

D. iii

Answer: D



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27. Which of the following statements is correct about cyclostomata ?

A. Members possess 6-15 gill slits.

B. Mouth is suctorial without jaws.

C. Ambyostoma is one of the example.

D. All of the above .

Answer: B



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28. Synaptonemal complex is visible from

- A. Diplotene to Diakinesis
- B. Leptotene to zygotene
- C. zygotene to pachytene
- D. Metaphase to Telophase

Answer: C

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29. In the given diagram , typical chordate plan is given . Identify A and B .



- A. Nerve cord and myotomes
- B. Gut and vertebral column

C. Nerve cord and notochord

D. Notochord and nerve cord.

Answer: C



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30. Which of the following statements is incorrect ?

A. In Indian about 5000 varieties of mangoes are found .

B. Among vertebrates , more than half of the species belong to fishes.

C. India is one of the 12 mega diversity countries of the world .

D. Ecological diversity in India is more diverse than Norway .

Answer: A



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31. Match the following column I with column-II :

	Column-I		Column-II
(A)	<i>Australopithecus</i>	(I)	Apeman
(B)	<i>Homo erectus</i>	(II)	Believed in burial system
(C)	Neanderthal man	(III)	Large cranial capacity = 900 cc
(D)	Cro-magnon man	(IV)	Cave painting

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

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

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

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

Answer: D



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32. What is the collective term for " habitat loss and fragmentation , over- exploitation , invasion on of alien species and co-extinction " ?

- A. Evil Quarter
- B. Four major causes of increasing biodiversity
- C. Spore tetrad
- D. Tetrasporic loss of biodiversity

Answer: A

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33. Select the correct match from the following.

- A. Adaptive radiation : Australian marsupials
- B. Origin of Earth : 20 billion years age
- C. Most acceptable theory of origin of life Neo - Darwinism

D. Panspermia : Life evolved from pre-existing chemicals

Answer: A

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34. which of the following is incorrect about the location of sacred groves in India ?

A. Aravalli hills - Uttar Pradesh

B. Khasi and jaintia hills - Meghalaya

C. Western ghats - Karnataka

D. Sarguja , chanda and Bastar - Madhya Pradesh

Answer: A

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35. Which of the following connections are not true about the special creation theory of the origin of life ?

- A. All living organisms that we see today were created as such .
- B. The earth is about 4000 years old.
- C. There has been gradual evolution of life form .
- D. Diversity was always the same since creation and will remain same in future also.

Answer: C

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36. The western Ghats have a greater amphibian diversity than the Eastern Ghats . This is an example of

- A. Genetic diversity
- B. Delta diversity

C. Ecosystem diversity

D. Species diversity

Answer: D



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37. Which set of factors can move the oxygen dissociation curve towards the right ?

A. High Temperature High PH

B. Low pO_2 and Low pH

C. High pO_2 and Low pH

D. Low pCO_2 and High pH

Answer: B



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38. P. Formation of megaspore from the megaspore mother cell by meiosis is calledI.....

Q. Formation of male gamete from the generative cell by meiosis is calledII.....

Write correct terms for I and II.

- A. *I* *II*
Microsporgogenesis Fertilization
- B. *I* *II*
Microsporgogenesis Gametogenesis
- C. *I* *II*
Microsporgogenesis Microporgensis
- D. *I* *II*
Gametogenesis Microsporgensis

Answer: B

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39. Trachea divides at the level of :

A. 7th Cervical vertebrae

B. 5th Lumbar vertebrae

C. 5th Thoracic vertebrae

D. 7th Thoracic vertebrae

Answer: C

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40. In flowering plants , arrange the following steps in their correct sequence .

(a) Formation of the embryo sac

(b) Megasporogenesis

(c) Formation of endosperm

(d) Fertilization

(e) Development of embryo

A. $b \rightarrow a \rightarrow e \rightarrow c \rightarrow d$

B. $b \rightarrow a \rightarrow c \rightarrow d \rightarrow e$

C. $a \rightarrow b \rightarrow c \rightarrow d \rightarrow e$

D. $b \rightarrow a \rightarrow d \rightarrow c \rightarrow e$

Answer: D

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41.A..... (a part of a alimentary canal) secretesB..... (an enzyme)
which converts trypsinogen into trypsin.

- A. A B
Small intestine Trypsinase
- B. A B
Small intestine Intestinal Lipase
- C. A B
Intestinal mucosa Enterokinse
- D. A B
Small Intestine Steapsin

Answer: C

42. Which of the following statements are correct regarding the development of embryo sac ?

- (i) The type of nuclear division is free , in which there is no formation of the cell wall .
- (ii) Out of the eight nuclei , six are surrounded by a cell wall .
- (iii) Central cell situated below the egg apparatus.

A. i and ii only

B. ii and iii only

C. iii only

D. All are correct

Answer: D

43. Select the incorrect statement about cortical nephrons.

- A. These are mainly concerned with urine concentration .
- B. These have shorter of loop of Henle.
- C. These do not have major role in Counter current mechanism.
- D. These lack association with vasa recta .

Answer: A



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44. I. Transfer of pollen grains from anther to the stigma of the same flower is termed asP.....

II. Transfer of pollen grains from anther to the stigma of another flower of same plant is termed asQ.....

III. Transfer of pollen grains from anther to stigma of a different plant is termed as.....C.....

Fill in the blanks P, Q and R with give terms.

- | | | | |
|----|-------------|-------------|-------------|
| | <i>P</i> | <i>Q</i> | <i>R</i> |
| A. | Geitonogamy | Pollination | Xenogamy |
| | <i>P</i> | <i>Q</i> | <i>R</i> |
| B. | Pollination | Autogamy | Xenogamy |
| | <i>P</i> | <i>Q</i> | <i>R</i> |
| C. | Autogamy | Xenogamy | Geitonogamy |
| | <i>P</i> | <i>Q</i> | <i>R</i> |
| D. | Autogamy | Geitonogamy | Xenogamy |

Answer: D

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45. Read the following statements (i - iv) about human heart :

- (i) Human heart is myogenic and our body has the ability to alter the heart rate , cardiac output but not stroke volume.
- (ii) P - wave in ECG marks the atrial systole .
- (iii) Adrenal medullary hormones acts on SA node and increases heart rate.

How many statement is/are correct form the above ?

A. Four

B. Three

C. Two

D. One

Answer: C



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46. Select the correct match .

A. Viola , Commelina - Xenogamous flower

B. Viola, Oxalis - Cleistogamous flower

C. Tomato , Chilli - Cleistogamous flower

D. Capsella , Brassica - Chasmogamous flower

Answer: B



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47. In humans, blood passes from the post caval to the diastomic right atrium of heart due to

- A. Pushing open of the venous valves
- B. Suction pull
- C. Stimulation of the sino atrial node
- D. Pressure difference between the post caval

Answer: D



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48. Read the following statements and choose the correct ones.

- (a) In algae and fungi , both gametes are mostly non-motile .
- (b) In most of the organisms, Fertilization is external.
- (c) In most of higher organisms, female gamete is stationary.

- A. All are correct .
- B. b and c are correct.
- C. a and b are correct.
- D. Only c is correct.

Answer: D

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49. Which of the following is incorrect about the chromosomal Theory of Inheritance ?

- A. Genes occurs in pair .
- B. Pairing and separation of pair of chromosomes lead to the segregation of a factor they carried .
- C. Behaviour of chromosomes is parallel to the behaviour of genes

D. The two alleles of a genes pair are located on same gene locus .

Answer: B

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50. What is the main purpose of a test cross ?

- A. Find the number of alleles a gene
- B. Determine two species will breed successfully
- C. Determine the genotype of a plant in F_2 generation .
- D. Predict whether two traits are linked

Answer: C

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51. Which of the following is associated with Alfred Sturtevant ?

- A. Genetic map
- B. Incomplete dominance
- C. Linkage
- D. Mutation

Answer: A



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52. In which of the following chromosomal disorders do b observe the features like a long furrowed tongue and short stature ?

- A. Down syndrome
- B. Klinefelter's syndrome
- C. Turner's syndrome

D. Payer's syndrome

Answer: A

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53. Sahiwal cows in Punjab were developed through -

- A. Artificial selection and domestication from ancestral wild cows.
- B. Artificial selection and domestication of wild cows.
- C. Artificial selection and European wild cows .
- D. Artificial selection and domestication from American cows.

Answer: A

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54. Verbalization is best defined as

- A. All changes that an organism goes through during its life cycle .
- B. Flowering is either quantitatively or qualitative dependent on exposure to low temperature.
- C. Flowering induced by altering nutrient supply
- D. Presence of different kinds of structure in response to environment or phases of life.

Answer: B



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55. Absolute growth rate can be best defined as

- A. It is growth rate in whole life .
- B. It is growth from birth to death .

C. Measurement and the comparison of total growth rate per unit time

D. Per unit initial parameters

Answer: C

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56. Cyclosporine A is commercially produced by the action of

A. Trichoderma - Fungus

B. Trichoderma - Bacteria

C. Monascus - Fungus

D. Monascus - Bacteria

Answer: A

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57. Select the incorrect match from the following.

- A. Yeast - Ethanol production
- B. Statins - Blood cholesterol lowering agent
- C. Streptokinase - Clarification of bottled juice
- D. Lipase - Remove oily stains

Answer: C



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58. The international treaty of Montreal protocol become effective in the year of

- A. 1989
- B. 1999

C. 1889

D. 1987

Answer: A



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59. Ahmed Khan , aged 57 years old , is a plastics sack manufacturer in Bangalore for the last 20 years .

He has been associated with

A. recycling for radioactive waste

B. remedy for E - waste

C. remedy for organic farming

D. Polyblend

Answer: D



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60. Read the following characters.

i. Diadelphous condition

ii. Vexillary aestivation

iii. Non - endospermic seed

The above characters belongs to family

A. Solanaceae

B. Fabaceae

C. Cruciferae

D. Gramineae

Answer: B



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61. Which of the following parameters are responsible for increasing the population ?

- A. Natality and Mortality
- B. Mortality and Natality
- C. Natality and Immigration
- D. Mortality and Immigration

Answer: C



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62. Select the correct match :

Column A

Column B

I. Tap roots

1. Maize

II. Fibrous roots

2. Mustard

3. Wheat

4. Sugarcane

A. I - 2 , II - 1,3

B. I - 2 , II - 1, 3 ,4

C. I - 4, II - 1, 2 ,3

D. I - 1,3, II - 2, 4

Answer: B

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63. Which of the following is/are character /s of racemose inflorescence?

- (i) Basal flower are older while the apical flowers are younger.
- (ii) Flower open from periphery to centre.
- (iii) Floral axis shows continuous growth

A. Only i and iii

B. Only ii

C. Only iii

D. i,ii and iii

Answer: D

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64. (i) Arrangement of lateral root on tap root isA.....

(ii) Arrangement of flower on floral axis is calledB.....

(iii) Arrangement of ovule in ovary is called asC.....

A. *A* *B* *C*
Placentation Acropetal Phyllotaxy

B. *A* *B* *C*
Inflorescence Placentation Phyllotaxy

C. *A* *B* *C*
Acropetal Inflorescence Placentation

D. *A* *B* *C*
Placentation Acropetal Inflorescence

Answer: C

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65. Which of the following represent the examples of stem and leaf tendril , respectively ?

- A. Peas and Pumpkin
- B. Acacia and Cucumber
- C. Peas and opuntia
- D. Cucumber and Peas

Answer: D

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66. (A) Each trophic level, a certain mass of living material at a particular time and asP.....

(B) Breakdown of detritus into smaller particles , this process is called

.....Q.....

Fill in the blanks with suitable word.

- A. P Q
Decomposition Mineralization
- B. P Q
Production Humification
- C. P Q
Standing Fragmentation
- D. P Q
Standing Stratification

Answer: C



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67. Identify the correct sequence of involvement , according to ecological succession .

- A. Climax community , pioneer and transitional
- B. Pioneer , transitional and climax community
- C. Pioneer ,climax and transitional community

D. Transitional, climax and Pioneer community

Answer: B

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68. Robert Constant and his colleagues have put a price tag of ..US .33 trillion a year on

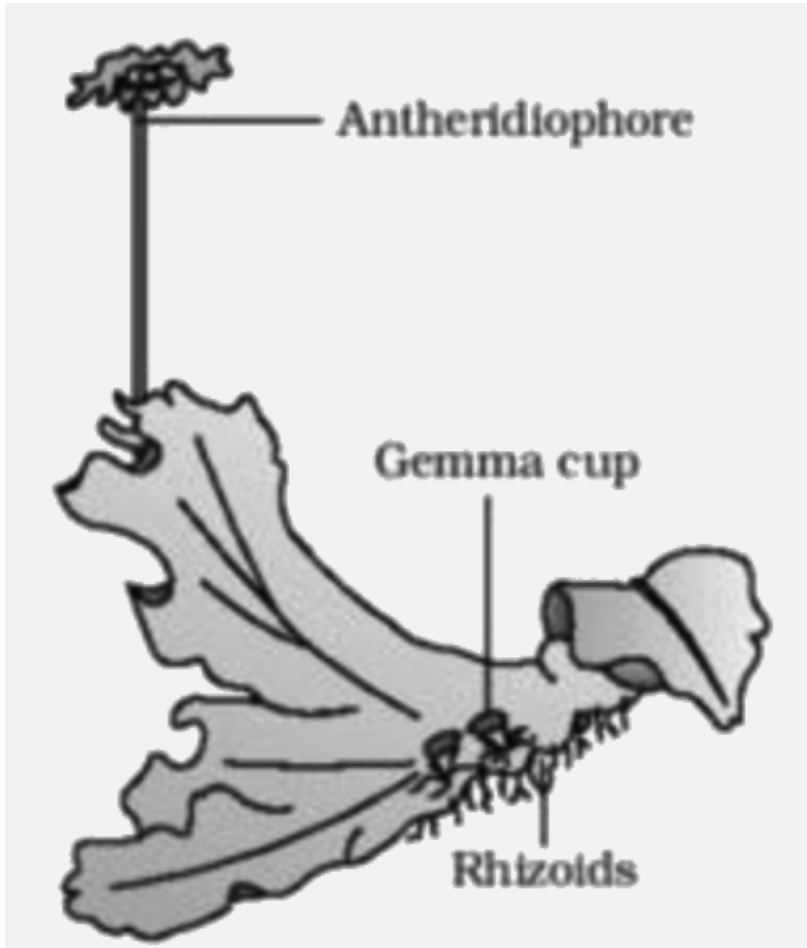
- A. Environment control
- B. Ecosystem services
- C. Ecological energy flow
- D. Ecological succession

Answer: B

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69. The male thallus of a bryophyte is given in the diagram below.

Select the option giving incorrect information regarding it.



- A. Gametophyte phase is dominant phase .
- B. Gemma cups participate in asexual reproduction
- C. Given bryophyte is a Equisetum.

D. It can also reproduce by fragmentation

Answer: C

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70. Which of the following is correct with respect to Plantae ?

- (i) In plants, antheridia are the female sex organ.
- (ii) Except algae, all plants bear embryo .
- (iii) All plants are heterosporous .

A. i and iii

B. ii and iii

C. i, ii and iii

D. Only ii

Answer: D

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71. In the diagram , a nucleosome is given . Select the option with correct identification .



- A. *A* RNA *B* H1 histone *C* Non - histone protein
- B. *A* DNA *B* Linker histone *C* Histone octamer
- C. *A* DNA *B* Histone octamer *C* H1 histone
- D. *A* DNA *B* H1 histone *C* H1 Histone tetramer

Answer: B

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72. The regulation of gene expression in eukaryotes occurs at /or include

- A. Translation level
- B. Transport of mRNA from nucleus to the cytoplasm
- C. Formation of primary transcript
- D. All off these

Answer: D

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73. During performing the Meselson and stahl's experiments, ^{15}N was distinguished by ^{14}N by

- A. Centrifugation in CsCl density gradient
- B. Paper chromatography
- C. Radioactivity counters
- D. ELISA.

Answer: A



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74. Which of the following is correctly related to aerobic respiration ?

- A. Oxygen acts as the first electron acceptor.
- B. Cytochrome c located towards inner side (matrix) of inner mitochondrial membrane .
- C. Oxidation of 1 molecule of NADH gives rise to 2 molecules of ATP.
- D. The role of oxygen is limited to the terminal stage of the process .

Answer: D



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75. Pyruvic acid is the initial substrate of

- A. Glycolysis
- B. Electron transport chain
- C. Kreb's cycle
- D. Link reaction

Answer: D



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76. Which of the following statements is incorrect about photosynthesis ?

- A. Increases in incident light beyond a point increases formation of chlorophyll and thus increase in photosynthesis .

B. At high light intensities , both C_3 and C_4 plants show increase in the rates of photosynthesis.

C. C_3 plants respond to higher CO_2 concentration by showing increased rates of photosynthesis leading to higher productivity has been used for some greenhouse crops such as tomatoes and bell pepper.

D. Tropical plant have a higher temperature optimum than the plants adapted to temperature climates.

Answer: A

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77. Which of the following glands /structure participate in excretion in periplaneta Americana ?

A. Ovarioles

B. Malpighian tubules

C. Gizzard

D. Anal cerci

Answer: B

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78. In the C_4 cycle, the 4 carbon - containing acids are formed in

A. Mesophyll cells of maize leaf.

B. Mesophyll cells of cactus leaf.

C. Mesophyll cells of tomato leaf.

D. Mesophyll cells of banana leaf.

Answer: A

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79. The fixed nitrogen is exported in soyabean in the form of :

- A. Nitrite
- B. Ureides
- C. Molecular nitrogen
- D. Nitrate

Answer: B



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80. Starch cannot be transported in plants because it is

- A. Polymer of galactose.
- B. Present in the storage form .
- C. Stachyose

D. Polymer of sucrose .

Answer: B

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81. What is the chemical nature of lecithin ?

A. Lypolipid

B. Phospholipid

C. Glycolipid

D. Derivative of protein

Answer: B

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82. In which of the following structure cartilage is absent ?

A. Tip of nose

B. External ear pinna

C. Between the cranial bones

D. Between the two adjacent bones of the vertebral column

Answer: C



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83. Vincristine and curcumin belong to the category of :

A. Drugs

B. Lectins

C. Toxins

D. Alkaloids

Answer: A



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84. What is the full form of EFB ?

- A. Enzymes Federation of Biochemistry
- B. Enzymes Foundation of Biodiversity
- C. European Federation of Biotechnology
- D. European foundation of Botany

Answer: C



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85. Select the correct option regarding restriction endonuclease

P. 900 restriction enzyme have been isolated from over 200 strains.

Q. The first restriction exonuclease was Hind II.

R. Each restriction endonuclease recognises same palindromic sequence .

A. All are incorrect

B. P and Q are correct

C. Q and R are incorrect

D. All are correct

Answer: A



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86. Cotton bollworms are controlled by certain proteins that are coded by

A. cryIAc.

B. cryIAb and cryIIAb.

C. crylAb and crylAc.

D. crylAb and crylAc.

Answer: D



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87. Which of the following organization is authorized for checking the validity of genetic research ?

A. National Environment Engineering Research Institute .

B. US patent and Trademark office

C. Genetic Engineering Approval Committee

D. International Union for conservation of nature and Natural resources

Answer: C





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88. Amoebiasis is caused by:

- A. Protozoan.
- B. bacteria.
- C. fungi.
- D. invertebrates.

Answer: A



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89. During gene therapy , gene is inserted for .

- A. Treating especially hereditary diseases
- B. Treating accidental diseases

C. Treating communicable diseases

D. More than one option is correct

Answer: A



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90. In which of the following sarcolemma is present ?

A. Collagen fibres

B. Muscle fibres

C. Elastin fibres

D. Reticulate fibres

Answer: B



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