



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 68

Biology

1. The adult are radially symmetrical but larvae are bilaterally symmetrical .

- A. Asterias
- B. Balanoglossus
- C. Obelia
- D. Ascaris

Answer: A



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2. Read these statements about a taxonomic key. How many are false ?

1. A taxonomic key is based on the contrasting characters generally in a pair called a couplet .
2. It is generally analytical.
3. It is a taxonomic and used for identification of plants only.
4. Only accepted statement in the key is called a lead.

A. Two

B. One

C. Three

D. Four

Answer: A



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3. Select the CORRECT statements from the following :

(P) In monocots , leaf base expands into sheath covering the stem partially or wholly

(Q) In all leguminous plants, the leaf base may become swollen , which is called the pulvinus

(R) The lamina or leaf blade is green expanded part of the leaf with vein and veinlets

(S) veins provide rigidity to leaf blade

A. P and Q only

B. R and S only

C. All except Q

D. All

Answer: D



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4. Which of these reactions is a multi step process ?

A. Glucose \rightarrow Glucose -6- phosphate

B. Fumarate \rightarrow Oxaloacetate

C. PEPA \rightarrow PA

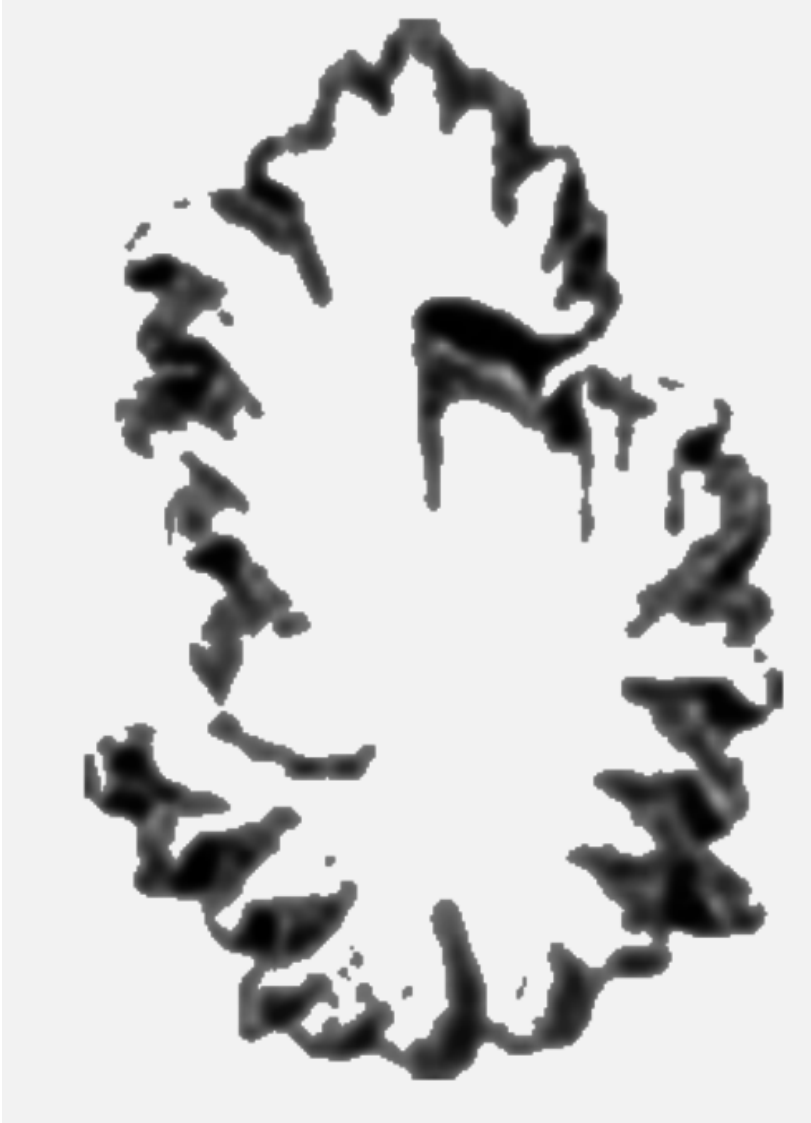
D. Succinyl CoA \rightarrow Succinate

Answer: B



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5. Observe the given diagram and state the correct property of the organism depicted in it



A. Fresh water green alge , oogamous , diplomatic life cycle

B. Giant kelp , fucoxanthin , haplontic life cycle

C. Reserve food material is Floridean starch , non motile spores and gametes , oogamous

D. Stone worts , motile gametes monoecious

Answer: C



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6. Stem tendrils develop from in plants like gourds

A. axillary bud

B. apical bud

C. leaves

D. apical meristem

Answer: A



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7. The correct match of the group of protozoans with the correct example.

| | Protozoan | | Example |
|---|-----------------------|-----|-------------|
| P | Amoeboid protozoan | i | Plasmodium |
| Q | Sporozoan | ii | Trypanosoma |
| R | Ciliated protozoan | iii | Paramecium |
| S | Flagellated protozoan | iv | Entamoeba |

A. P -iv ,Q -iii , R -ii ,S -i

B. P -i ,Q - ii ,R -iii , S -iv

C. P - ii ,Q - iii, R - iv, S -i

D. P - iv , Q - i, R - iii, S -ii

Answer: D



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8. All these statements about trophic levels and ecosystems are false except

- 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 ecosystems , producers are less in number and biomass than the herbivorous
- D. Pyramid of energy can never be upright .

Answer: A



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9. The pigment in blue - green algae is Which is the same as the one found in green plants . These blue - green algae are

- A. Pycocyanin , photoautotrophs

B. Heterocysts , Nitrogen fixers

C. All pigments except Chlorophyll a, photoautotrophs

D. Chlorophyll a , photoautotrophs

Answer: D



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10. Which of these structures has two sets of chromosomes in flowering plants ?

A. Microspore

B. Microsporangium

C. Endosperm

D. Megaspore

Answer: B



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11. Which of these parts in the complex permanent tissue to involve the transport of water is different from the rest ?

A. tracheid

B. Vessel

C. Xylem fibers

D. Xylem parenchyma

Answer: B



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12. Which one of the following does not differ in *E. coli* and *Chlamydomonas*

A. Ribosomes

B. Cell wall

C. Cell membrane

D. Nuclear organization

Answer: C



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13. If an endosperm cell of an angiosperm contains 24 chromosomes, the number of chromosomes in each cell of the root will be

A. 8

B. 4

C. 16

D. 24

Answer: C



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14. Read the following cell processes. In how many of them are mesosomes involved ?

(Respiration , Secretion , DNA replication , cell wall formation, Resistance of antibiotics , protection)

A. Five

B. Three

C. Four

D. Six

Answer: C



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15. A mature corn plant absorbs almostof..... water in ...

A. 5 litres ,in a day

B. 1 litres ,one hour

C. 5 litres in a half day

D. 3 litres , a day

Answer: D



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16. Which one does not come under the same order as the other three

A. Bone

B. Cartilage

C. Nerve fibres

D. Blood

Answer: C



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17. The project 200 zygotes, how many meiotic divisions are required in flowering spermatocytes ?

- A. 125
- B. 250
- C. 300
- D. 400

Answer: B



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18. The virologist Showed that the viruses could be crystallized .

- A. W.M . Stanley
- B. T. O. Diener
- C. M.W. Beijerinck
- D. D.J . Ivanowsky

Answer: A



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19. Which of these statement about bryophytes is true?

- A. In bryophytes , zygote dose not undergo reduction division immediately.
- B. Leafy members having leaf-like appendages in two rows on the stem-like structures are not observed in liverworts .
- C. Leafy stage of mosses develops from the primary protonema as a lateral bud .
- D. The sporophyte of mosses is less elaborate than that of liverworts .

Answer: A



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20. Following features belong to which syndrome ?

(I) Furrowed tongue

(II) palm is broad with characteristics palm crease .

(III) Physical and mental retardation

(IV) Short statured with small round head.

A. Down's syndrome

B. Turner's

C. Klinefeter's syndrome

D. Cri du chat syndrome

Answer: A



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21. Filament , hook and basal body are the parts of

A. Flagella in prokaryotes

B. Flagella in eukaryote

C. Fimbriae

D. Flagella in both eukaryotes and prokaryotes

Answer: A



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22. The phenomenon of interaction between the member of two different species where one organism is being benefitted without affecting the others is

A. Ammensalism

B. Commensalism

C. Mutualism

D. Predation

Answer: B



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23. Increased vigour of hybrid , over the parents resulting from the crossing of genetically unlike organisms is called

- A. Mutant
- B. heterosis
- C. Polypoid
- D. Superiors

Answer: B



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24. The entire body of molecular biology was the consequent development with major contributions from

- A. Tansley , Aristotle , Nuremberg , Khorana , Kornberg , Benzer ,
Monod, Brenner

B. Watson , Crick Humboldt , Darwin, Kornberg, Benzer , Monod ,

Brenner

C. Watson , Crick , Nuremberg , Khorana , Kornberg , Erlich , Mendel

D. Watson , Crick , Nuremberg , Khorana , Kornberg , Benzer , Monod ,

Brenner

Answer: D



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25. 60 % of the angiosperms shed their pollens at the

A. 2 celled stag

B. 3 celled stag

C. 4 celled stag

D. 1 celled stag

Answer: A



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26. Catalytic activity is when is removed from the enzyme which testifies that they play crucial role in the catalytic activity of the enzyme .

- A. Lost, Co-factor
- B. Intensified , Co-factor
- C. Lost , Inhibitor
- D. both (a) and (c)

Answer: A



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27. Which is a wrong pair about C_4 plants

- A. Mesophyll - Homogeneous

B. Chloroplasts - Dimorphism

C. PEP carboxylase - present in bundle sheath chloroplast

D. RUBISCO - present in abundance in Chloroplasts of bundle sheath cell

Answer: C



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28. Cold treatment to biennial plants will stimulate what kind of response ?

A. Photolysis

B. Phototropism

C. Photoperiodic response

D. Pulverization

Answer: C



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29. Nitrobacter

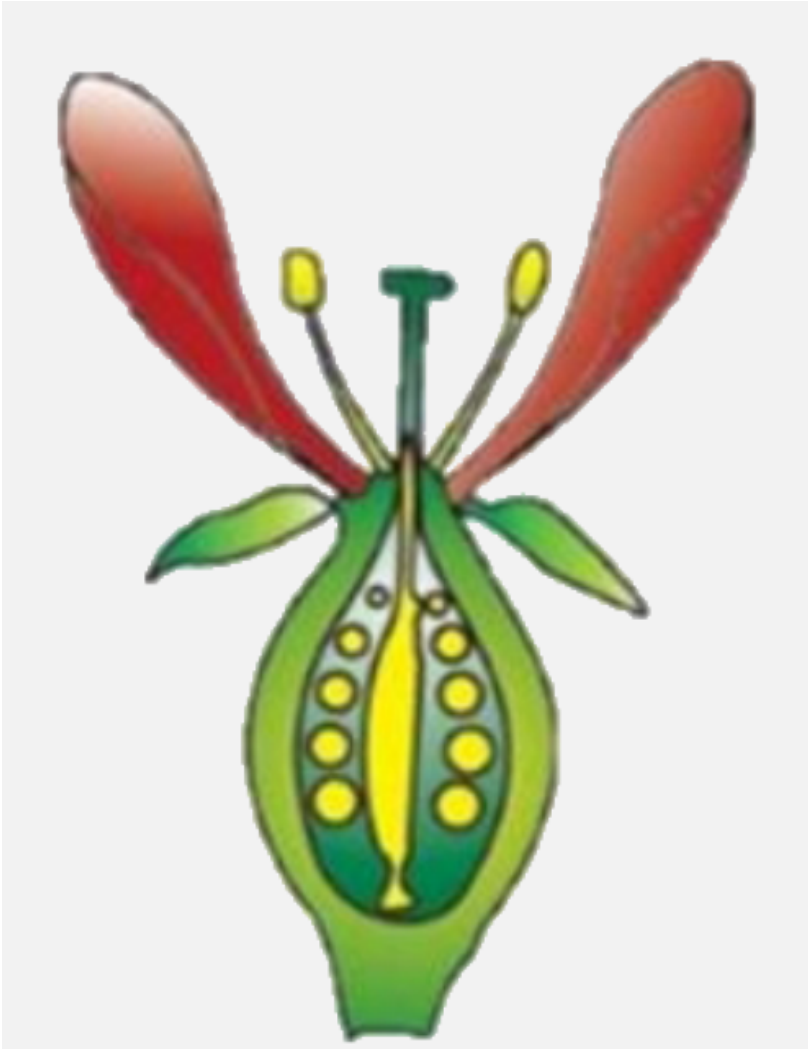
- A. Oxidise nitrite
- B. Oxidise nitrate
- C. reduce nitrite
- D. reduce nitrate

Answer: A



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30. The flower in the given diagram depicts the flower of



A. Guava

B. Cucumber

C. Ray florets of sunflower

D. All of these

Answer: D

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31. In a mouse duplication of centrioles in cytoplasm is completed in

A. S- phase

B. G_2 phase

C. G_1 phase

D. both (B) and (C)

Answer: A

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32. How many molecules of ATP will be generated in Krebs cycle ,if a molecule of sources is completely oxidised and used a substrate ?

A. 24

B. 48

C. 2

D. 30

Answer: B



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33. Which of these is not example of alien species invasion ?

A. Nile perch introduced in Lake Victoria

B. African catfish in Indian River

C. Water hyacinth in india

D. Soyabean cultivation in Amazon forest

Answer: D

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34. Sulphur is present in

- A. Cysteine and Methionine
- B. Ferredoxin and Coenzyme A
- C. All amino acids
- D. Both (A) and (B)

Answer: D

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35. In the fully developed angiospermic female gametophyte ,what is the ratio of haploid load diploid and triploid cells ?

A. 5:1:1

B. 3:1:3

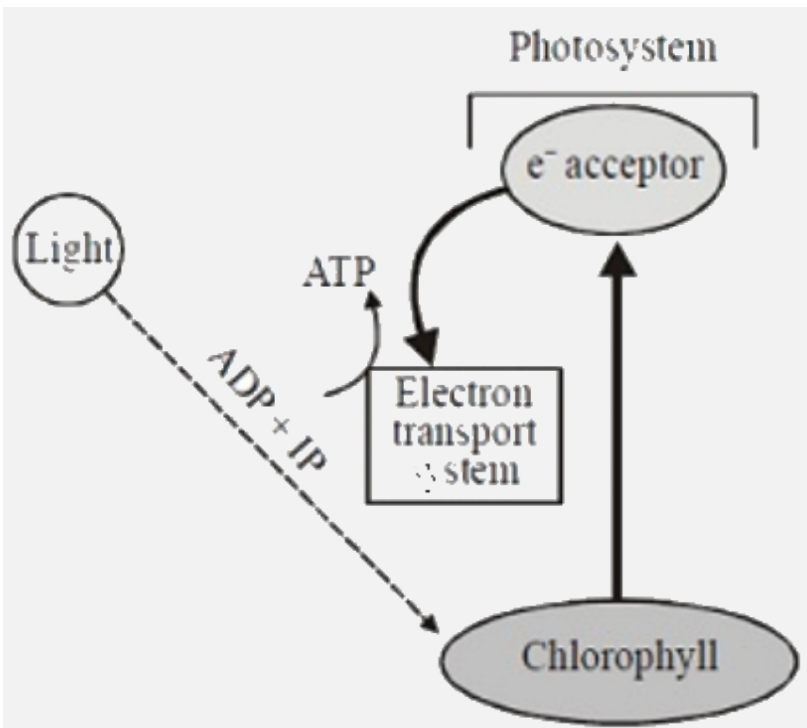
C. 6:1:0

D. 6:0:1

Answer: C



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36.

Which of the following is applicable to the given figure ?

- A. This process not occurs when light of wavelength beyond 680 nm are available for excitation.
- B. This process results only in the synthesis of ATP not of $NADPH + H^+$.
- C. This process results two molecules of H_2O to release one O_2

D. This process occurs in the thylakoid which lack NADP reductase enzyme

Answer: C

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37. All these pairs of plants and their structure are correctly matched , except

A. Rhizophora - Pneumatophores

B. Ficus benghalensis - stilt roots

C. Bryophyllum - Leaf buds

D. Pumpkin - Tendrils

Answer: B

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38. Match the processes occurs during cell cycle with the names of the events

| | | | |
|-----|--|-------|-------------|
| (P) | Synapsis aligns homologous chromosomes | (i) | Anaphase-II |
| (Q) | Synthesis of RNA and protein | (ii) | Zygotene |
| (R) | Action of enzyme recombinase | (iii) | G-phase |
| (S) | Centromeres do not separate but chromatids move towards opposite poles | (iv) | Anaphase-I |
| | | (v) | Pachytene |

- A. (P)- (i) ,(Q)-(ii), (R)-(v), (S)-(iv)
- B. (P)- (ii) ,(Q)-(iii), (R)-(iv), (S)-(v)
- C. (P)- (ii) ,(Q)-(i), (R)-(iii), (S)-(iv)
- D. (P)- (ii) ,(Q)-(iii), (R)-(v), (S)-(vi)

Answer: D



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39. GGG , GGA ,GGC and GGU code for

A. Glycine

B. Lysine

C. Leucine

D. Isoleucine

Answer: A



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40. A cross between a pure pea plant with yellow pod and round seeds with a pure pea plant with green pods and round seeds yields green round plants in F_1

A. 50 %

B. 20 %

C. 0 %

D. 100 %

Answer: D



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41. Which of the following waves of ECG are correctly paired with their events ?

- A. P wave - depolarisation of atria
- B. QRS complex - Repolarisation of Ventricles
- C. T wave - start of systole
- D. T wave - end of diastole

Answer: A



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42. Which of these terms have been paired correctly ?

A. Bark-Periderm

B. Cork-Phellem

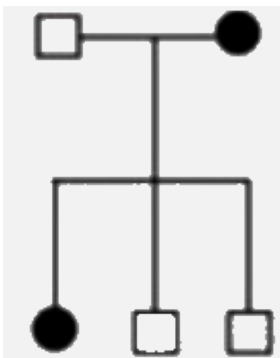
C. Cork cambium - phelloderm

D. Secondary cortex - phellogen

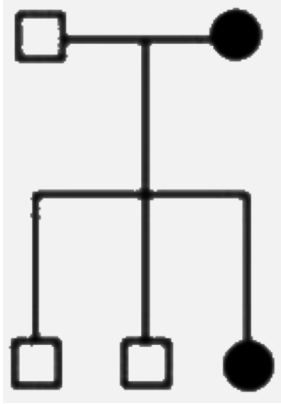
Answer: B

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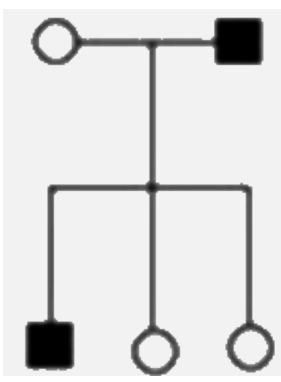
43. A couple has three children : a 14 - year -old daughter and two sons that are 12 and 10 years old.If the mother and daughter are both known to have a genetic disorder what would the the Pedigree of this family look like?



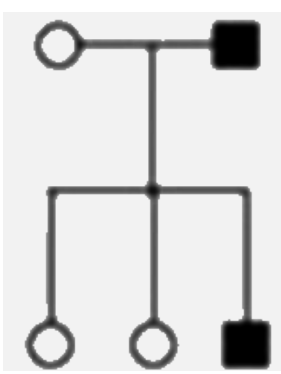
A.



B.



C.



D.

Answer: A

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44. Exponential growth can be expressed as

A. $W_1 = W_0e^{rt}$

B. $W_0 = W_1e^{rt}$

C. $W_1 = W_0e^{\Delta rt}$

D. $W_0 = W_1e^{\Delta rt}$

Answer: A



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45. In recombinant DNA technology before the use of restriction endonuclease , we have to isolated and precipitate the genetic material (DNA) . For this purpose we use following different enzyme / chemical :

A. Ethidium bromide

B. RNA polymerase

C. T_4 ligase

D. Chilled Ethanol

Answer: D



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46. Each of the following options has a there two equal number of both bones, which one does not

- A. Number of bones in the right upper limb and number of bones in the left lower limb
- B. Number of bones in the cranium and number of bones in the right wrist
- C. Number of true ribs and number of bone in the figure of the left hand
- D. Number of cervical vertebrae in the body and number of ankle bones in the body

Answer: D



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47. Which of the following techniques is used to check the progression of restriction enzyme digestion ?

- A. Insertional inactivation
- B. Transformation
- C. Gel electrophoresis
- D. Polymerase chain reaction

Answer: C



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48. In the following flowchart about protein digestion , P, Q ,R and S enzymes.

Proteins \xrightarrow{P} Proteoses and Peptones \xrightarrow{Q} Polypeptides \xrightarrow{R} Dipetide

The correct information of enzymes P, Q, R and S is

A. P : produced by Intestine as a proenzyme stage and is activated at alkaline pH

Q : produced by pancreas as acts a proenzyme and is activated by an intestinal enzyme

R : produced by stomach as a proenzyme stage and is activated at acidic pH

S : produced by pancreas in a active state

B. P : produced by stomach as a proenzyme stage and is activated by an intestinal at acidic pH

Q : produced by pancreas as acts a proenzyme and is activated by an intestinal enzyme

R : produced by pancreas in a active state

S : produced by intestine in an active state

C. P : produced by stomach as a proenzyme stage and is activated at acidic pH

Q : produced by pancreas as acts a proenzyme and is activated by an intestinal enzyme

R : produced by intestine in an active state

S : produced by intestine in an active state

D. P : produced by stomach as a proenzyme stage amd is activated at acidic enzyme

Q: produced by pancreas as a proenzyme and is activated by an intestinal enzyme

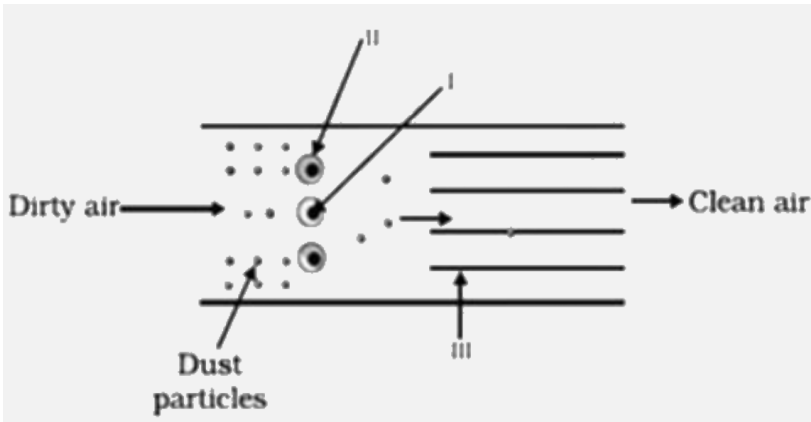
R : produced by intestine as a proenzyme and is activated Q

S : produced by intestine in an active state

Answer: C

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49. Study the diagram given below and mark the INCORRECT statement related to this .



- A. It help in removal of up to 90% particulate matter from exhaust of thermal power plant .
- B. It is negatively charged wire maintained at several thousand volts .
- C. In releases electrons
- D. It is place where dust particles get collected

Answer: A



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50. The correct arrangement of these biomolecules in increasing order of their molecules weight is

- A. ATP, ADP , AMP, DNA
- B. ADP, ATP, AMP,DNA
- C. AMP, ADP,ATP, DNA
- D. DNA, ,ATP , ADP, AMP

Answer: C



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51. Depolarisation of axolemma during nerve conduction takes place because

- A. an equal amount of Na^+ and K^+ move out across axolemma
- B. Na^+ moves inside
- C. there is more Na^+ outside than inside

D. K^+ moves inside

Answer: B



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52. Many diseases can be diagnosed by observing the symptoms in the patient. Which group of symptoms are indicative of pneumonia ?

- A. Difficulty in respiration, fever , chills cough , headache
- B. Constipation , abdominal pain , cramps, blood clots
- C. Nasal congestion and discharge , cough sore throat , headache
- D. High fever , weakness , stomach pain , loss of appetite and constipation

Answer: A



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53. Alphysia shows all of these properties , except

- A. Organ system level of organization
- B. Segmentation
- C. Bilateral symmetry
- D. Triploblastic coelomate

Answer: B



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54. All statements about aqueous humor are false, except

- A. It is located between cornea and the lens , and it is a thin watery fluid
- B. It is located between lens and retina and it is similar to CSF.
- C. It is located between cornea and lens, and it is thick and viscous .
- D. It is located between lens and retina and it is thin watery fluid

Answer: A



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55. The common ancestor for cycads and angiosperms is

- A. Seed ferns
- B. Progymnosperms
- C. Zosterophyllum
- D. Bryophytes

Answer: A



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56. The number of parents involved in Apomixis and Amphimixis , respectively , are

A. 2,1

B. 1,2

C. 2,2

D. 1,1

Answer: B



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57. The medical termination of pregnancy is legal up toof pregnancy.

A. 12 weeks

B. 4 weeks

C. 20 weeks

D. 24 weeks

Answer: C



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58. In the following the duration of intra - uterine life is matched with the events completed. Which of these is matched correctly ?

- i. End of the first month. Embryo heart is formed.
- ii. End of the second month: Foetus develops limbs and digits.
- iii. End of the fifth month : Hair on head
- iv. End of the sixth month : Eyelashes are formed

A. i, ii and iii

B. ii and iv

C. i and iii

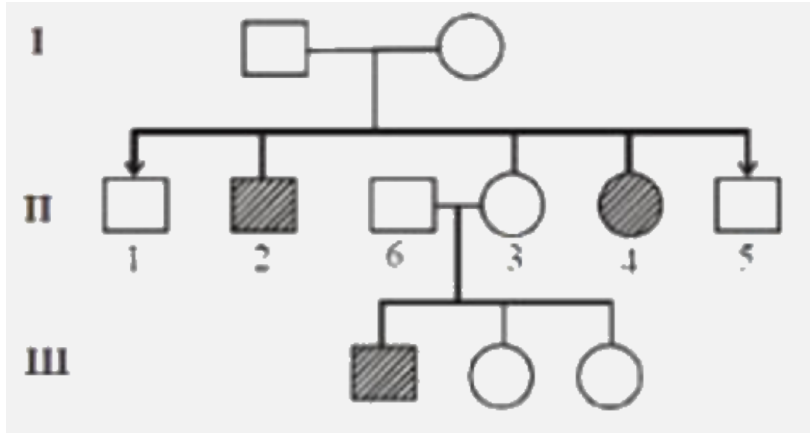
D. i,ii , iii and iv

Answer: D



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59. What is the genotype of II (3) ?



A. AA

B. aa

C. aA

D. Aa

Answer: D

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

- A. Low CO_2
- B. Low H^+ concentration
- C. Low O_2 tension
- D. Low temperature

Answer: C



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61. Which of the following is correct about Hardy Weinberg's principle ?

- A. p^2 is the number of pure homozygous dominant individuals in the population , q^2 is the number of pure homozygous recessive individuals in the population.

B. p^2 is the number of pure homozygous dominant individuals in the population, q^2 is the number of pure homozygous recessive individuals in the population and $2pq$ is the number of heterozygous individuals in the population.

C. p^2 is the proportion of pure homozygous dominant individuals in the population, q^2 is the proportion of pure homozygous recessive individuals in the population and $2pq$ is the proportion of heterozygous individuals in the population.

D. p^2 is the proportion of pure homozygous recessive individuals in the population, q^2 is the proportion of pure homozygous dominant individuals in the population and $2pq$ is the proportion of heterozygous individuals in the population.

Answer: C



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62. Infertility in male is the inability to achieve an erection of penis to inseminate the female or having very low sperm count. Which of the following is the best method for correcting this infertility ?

- A. GIFT
- B. IVF
- C. Artificial insemination
- D. ZIFT

Answer: C



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63. The procedure through which a piece of DNA is introduced in a host bacterium is called

- A. gene cloning.
- B. creation of recombinant DNA.

C. transformation

D. transfection

Answer: C



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64. All the following statement about inclusion bodies are true except

A. inclusion bodies are not bound by any membrane system.

B. they lie free in the cytoplasm.

C. reserve material in prokaryotic and eukaryotic cells is stored in the form of inclusion bodies.

D. gas vacuoles and phosphate granules are examples of inclusion bodies.

Answer: C



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65. Which of the following structure of the female reproductive system can be taken as homologous to the scrotal sac of the male ?

- A. Mons pubis
- B. Labia majora
- C. Bulbourethral gland
- D. Forchette

Answer: B



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66. Test cross involves

- A. crossing between two genotypes with dominant trait.
- B. crossing between two genotypes with recessive trait.
- C. crossing between two F_1 hybrids .

D. crossing the F_1 hybrid with a double recessive genotype.

Answer: D



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67. When a person breathes out normally, then the amount of air which remains in the lung after a normal expiration is

- A. expiratory reserve volume.
- B. expiratory capacity.
- C. Functional residual capacity (FRC).
- D. residual volume .

Answer: C



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68. Methylophilus methylotrophus bacterium as SCP produces more

- A. Proteins
- B. fats.
- C. carbohydrates.
- D. lipids.

Answer: A



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69. Which of these hormones decrease the amount of sodium lost by the body through urine ?

- A. ANF
- B. Aldosterone
- C. Parathormone
- D. Vasopressin .

Answer: B



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70. A gene encoding for a polypeptide of 60 amino acids get mutated at 30th codon UAU becoming UAA The result would be

- A. A polypeptide of 29 amino acids
- B. Two polypeptides one with 29 amino acids and second with 31 amino acids.
- C. A polypeptide with 59 amino acids.
- D. A polypeptide of 25 amino acids.

Answer: A



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71. Read the following statements about the human female reproductive system and identify the incorrect statement.

- A. The wall of the uterus has three layers of tissue. The external thin membranous perimetrium, middle thick layer of smooth muscle, myometrium and inner glandular layer called endometrium that lines the uterine cavity.
- B. The clitoris is a tiny finger-like structure which lies at the upper junction of the two labia majora above the urethral opening.
- C. Each fallopian tube is about 10 - 12 cm long and extends from the periphery of each ovary to the uterus the part closer to the ovary is the funnel-shaped infundibulum.
- D. The cavity of the cervix is called cervical canal. Which along with vagina forms the birth canal.

Answer: B



72. Read the following given examples:

- (i) Plant - pollinator mutualism.
- (ii) Lichen.
- (iii) African catfish during aquaculture.
- (iv) Nile perch and Cichlid fish.

Which out of these options CORRECTLY gives the example of 'Co - extinction' as a cause of biodiversity loss ?

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

Answer: A



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73. Diseases are broadly grouped into infectious and non-infectious diseases. In the list given below, identify the infectious diseases.

- (i) Cancer , (ii) Influenza
(iii) Allergy, (iv) Small pox

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

Answer: D

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74. Increase in GFR can be due to :

- A. Increase in blood colloidal osmotic pressure
B. Increase in capsular hydrostatic pressure
C. Increase in capillary blood pressure

D. More than one option is correct

Answer: C

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75. Rate of biomass production is expressed as :

A. $(kcal\ m^{-2})\ yr^{-1}$

B. $kcal\ gm^2\ yr^{-1}$

C. $gm^3\ yr$

D. $gm^{-2}\ yr$

Answer: A

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76. BOD of waste water is estimated by measuring the amount of

- A. Total organic matter
- B. Biodegradable organic matter
- C. Oxygen evolution
- D. Oxygen consumption

Answer: D

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77. Polydipsia , hyperglycemia and polyuria occur due to

- A. Undersecretion of insulin
- B. Undersecretion of thyroxine
- C. Undersecretion of oestrogen
- D. Hypersecretion of glucagon

Answer: A

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78. Majority of transgenic animals are :

- A. Mice
- B. Rabbit
- C. Pigs
- D. Cows

Answer: A



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79. Which one of the following alcoholic drink has the least proportion of ethyl alcohol in it ?

- A. Wine
- B. Whisky
- C. Rum

D. Brandy

Answer: A



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80. The sequence of nucleotides AUGCUUCUC indicates that it is a segment is

- A. Sense strand of DNA
- B. Antisense strand of DNA
- C. RNA
- D. Polypeptide chain

Answer: C



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81. Which of these vaccines is not given against viral diseases ?

A. DPT - Diphtheria, Pertussis and Tetanus vaccine

B. MMR - Mumps , Measles and Rubella vaccine

C. Oral Polio vaccine

D. Hepatitis B vaccine

Answer: A



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82. The site for the production of an enzyme, the deficiency of which causes SCID, in the body is

A. bone marrow.

B. lymphocyte

C. blood plasma.

D. monocytes

Answer: B

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83. What is meant by contact inhibition ?

- A. Contact with other cells promote their uncontrolled growth .
- B. Contact with other cells doesn't inhibits their uncontrolled growth.
- C. Contact with other cells inhibits their programmed cell death.
- D. Contact with other cells inhibits their uncontrolled growth

Answer: D

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84. If we completely remove the decomposers from an ecosystem, the ecosystem functioning will be adversely affected because:

- A. Mineral movement will be blocked
- B. Herbivores will not receive solar energy
- C. Energy flow will be blocked
- D. Rate of deposition of other component will be very high.

Answer: A

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85. Find the INCORRECT pairing.

- A. SAN - Natural pacemaker
- B. Heart rate - Pulse rate
- C. Cardiac output - Heart rate x Stroke volume
- D. Heart failure - Heart attack

Answer: D

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86. In your opinion, which is the most effective way to conserve the plant diversity of an area?

- A. By tissue culture method
- B. By creating biosphere reserve
- C. By creating botanical garden
- D. By developing seed bank

Answer: B



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87. The regulatory protein of skeletal muscles whose filaments run close to the F - actin throughout its length is

- A. Troponin T
- B. Troponin C

C. Troponin I

D. Tropomyosin

Answer: D



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88. Genetic drift operates in :

A. Large isolated population

B. Small isolated population

C. Fast reproductive population

D. Slow reproductive population

Answer: B



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89. Acromegaly is due to hypersecretion of a hormone secreted from:

- A. Neurohypophysis
- B. Adenohypophysis
- C. Cells of Leydig
- D. Pars intermedia

Answer: B



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90. A logistic growth curve depicting a population that is limited by a definite carrying capacity is shaped like the letter

- A. J
- B. L
- C. M
- D. S

Answer: D



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