



BIOLOGY

NTA MOCK TESTS ENGLISH

NTA NEET SET 87

Biology

1. Which of the following is an essential fatty acid ?

- A. Linoleic acid
- B. Linolenic acid
- C. Arachidonic acid
- D. All of these

Answer: D



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2. When the SA node generates an action potential it stimulates the atrial systole , which results in

- A. complete Ventricular filling
- B. Complete emptying of atria
- C. increased flow of blood into the Ventricles by about 30 % , but semilunar valves must be open
- D. increased flow of blood into the Ventricles by about 30 % , but semilunar valves must be closed

Answer: D



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3. Inspiration occurs when there is a negative pressure in the lungs with respect to atmospheric pressure. This negative pressure is achieved when

- A. the volume of the lung increase while the pressure in the lung decreases
- B. the volume of the lung decreases while the pressure in the lung increases
- C. the volume of the lung increases while the pressure in the lung increases
- D. the volume of the lung decreases while the pressure in the lung decreases

Answer: A



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4. Second check point of cell cycle lies between

- A. G_1 and S phase
- B. S and S_2 Phase
- C. G_2 and M phase
- D. M and G_1 Phase

Answer: C



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5. Golgi apparatus is derived from

- A. ER
- B. mitochondria
- C. cell membrane

D. nuclear membrane

Answer: B



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6. Which gland stores hormone before its secretion and then releases it ?

A. the smallest endocrine glands

B. the largest endocrine glands

C. the heterocrine glands

D. the endocrine gland which is considered as the vestigial third eye

Answer: B



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7. Around ...% of body weight in adult human is contributed by muscles.

A. 40 %

B. 20 %

C. 16 %

D. 15 %

Answer: A



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8. Weismann cut off tails of mice generation after generation but tails neither disappeared nor shortened showing that :

A. Darwin was correct

B. tail is an essential organ

C. Mutation theory is wrong

D. Lamarckism was wrong in explaining inheritance of acquired characters.

Answer: D



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9. Persons who take drugs intravenously are much more likely to acquire serious infections like

A. AIDS

B. Hepatitis-B

C. cancer

D. both (a) and (b)

Answer:



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10. Absence of sperms in semen is called

- A. oligospermia
- B. polyspermia
- C. azoospermia
- D. asthenospermia

Answer: C



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11. Contraceptive oral pills help birth control by

- A. Killing the sperms in uterus
- B. Preventing ovulation
- C. forming barrier between sperm and given
- D. Killing the ovum

Answer: B



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12. Match the name of the animal (Column I), with one characteristics (column II) and the phylum/class (column III)to which it belongs

| Column-I | Column-II | Column-III |
|-----------------|---------------------------------------|--------------|
| (a) Adamsia | radially symmetrical | Porifera |
| (b) Petromyzon | ectoparasite | Cyclostomata |
| (c) Ichthyophis | terrestrial | Reptilia |
| (d) Limulus | body covered by chitinous exoskeleton | Pisces |

A.

| Column I | Column II | Column III |
|----------|---------------------------------------|------------|
| Limulus | Body covered by chitinous exoskeleton | Pisces |

B.

| Column I | Column II | Column III |
|----------|----------------------|------------|
| Adamsia | Radially symmetrical | Proifera |

C.

| Column I | Column II | Column III |
|------------|--------------|--------------|
| Petromyzon | Ectoparasite | Cyclostomata |

D.

| Column I | Column II | Column III |
|------------|-----------|------------|
| Ichthyphis | Terrstria | Reptilia |

Answer: C



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13. A person with folic acid deficiency will have erythrocytes which are

- A. immature and larger than normal erythrocytes
- B. immature and smaller than normal erythrocytes
- C. mature and larger than normal erythrocytes

D. mature and smaller than normal erythrocytes

Answer: A



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14. The counter current mechanism involves the transport ofto maintain the concentration of.....in medullary interstitium.

- A. NaCl and urea
- B. KCl and glucose
- C. NaCl and water
- D. Urea and water

Answer: A



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15. The major relay station for sensory input that projects to the cerebral cortex is the

- A. Pons
- B. thalamus
- C. Cerebellum
- D. hypothalamus

Answer: B



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

- A. Cockroach has mosaic vision.

B. In Cockroach , brain supplied nerves to antennae and compound eyes.

C. Fat body , nephrocytes and uricose glands also helps in excretion in cockroach.

D. Male cockroach bears one ootheca that is a dark reddish to blackish brown capsule , about 3 /8 (8mm long.

Answer: D



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17. Mark the correct option:

A. $rate = \delta P / \delta t$

B. $rate = \beta P / \beta t$

C. $rate = \mu T / \mu P$

$$D. rate = \beta t / \beta P$$

Answer: A



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18. A completely four-chambered heart is present in

- A. all reptiles. all birds and all mammals
- B. Some reptiles , all birds and all .mammals
- C. no reptiles , all birds and all mammals
- D. Some reptiles, some birds and all mammals

Answer: B



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19. Wheezing occurs in

- A. Asthma
- B. Emphysema
- C. Silicosis
- D. Asbestosis

Answer: A



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20. How many chromosomes will the diploid cell have at G1 after S and after M - phase respectively if the haploid cell has 7 chromosomes ?

- A. 7,7,14
- B. 7,14,14

C. 14,14,14

D. 7,7,7

Answer: C



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21. Which cell organelle is absent in the leaves of onion ?

A. Nucleus

B. Cell wall

C. Centriole

D. Endoplasmic reticulum

Answer: C



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22. The releasing hormones are produced by

- A. thymus
- B. pituitary
- C. hypothalamus
- D. Pancreas

Answer: C



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23. Neural canal is located in

- A. cranium
- B. Skull
- C. vertebra
- D. spinal cord

Answer: C



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24. Read the following statements and select the correct option.

- (i) Increase in melanised moths after industrialisation in Great Britain is a proof for natural selection.
- (ii) When more individuals of a population acquire a mean character value, it is called disruption.
- (iii) Changes in allelic frequency in a population will lead to Hardy-Weinberg equilibrium.
- (iv) Genetic drift changes the existing gene or allelic frequency in future generations.

A. Only ii is correct

B. Only i ,iv are correct

C. Only i ,ii are correct

D. Only i ,iii are correct

Answer: B



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25. Antibody molecule is Y shaped. The two tips of this Y shaped molecule bind to antigen through which type of interaction /bond ?

A. Non-covalent interaction

B. Disulfide bonds

C. Covalent interaction

D. Peptide bond

Answer: A



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26. The first meiotic division during oogenesis is completed at the stage of

- A. Primary oocyte within primary follicle
- B. Secondary oocyte within secondary follicle
- C. Primary oocyte within tertiary follicle
- D. Secondary oocyte within tertiary follicle

Answer: C



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27. Family planning was initiated in(A)to attain(B)..... as a social goal.

- A. A : 1951, B : total reproductive health

B. A : 1961, B : total reproductive health

C. A : 1971, B : total mental health

D. A : 1931, B : total physiological health

Answer: A



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28. In which of the following organisms, self fertilization is seen ?

A. Fish

B. Roundworm

C. Earthworm

D. Liver fluke

Answer: A



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29. A person with chronic kidney failure will have

- A. high blood urea and high serum creatinine levels
- B. high blood urea and low serum creatinine levels
- C. low blood urea and high serum creatinine levels
- D. low blood urea and low serum creatinine levels

Answer: A

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30. The nerve impulses are transmitted by the optic nerves to the ...
area of the brain .

- A. Wernicke's area
- B. Motor area

C. Visual cortex area

D. auditory area

Answer: C



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31. Which of the following is the one common feature found in all types of connective tissue despite their variation in different aspects ?

A. Tough collagenous fibres

B. Elasticity and strength

C. Abundant matrix

D. Vascularity

Answer: C



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32. Enzymes that catalyse removal of groups from substrates by mechanisms other than hydrolysis, and addition of groups to double bonds, are called

A. Transferase

B. Lyases

C. Isomerases

D. Ligases

Answer: B



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33. Which of the following subcellular structures cannot be isolated ?

- A. nuclei
- B. lysosomes
- C. Mitochondria
- D. endoplasmic reticulum

Answer: D



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34. The hormones that initiate ejection of milk, stimulates milk production and growth of ovarian follicles are respectively known as

- A. PRH, OT and LH
- B. PRH, OT and LH
- C. OT, PRL and FSH
- D. LH, PRL and FSH

Answer: C



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35. Choose the correct match from the following .

- A. Giraffes with long necks - Lamarck
- B. Branching descent - Malthus
- C. Mutation cause speciation - Darwin
- D. Inheritance factors influence phenotype - de Vries

Answer: A



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36. Name the pathogen that causes amoebiasis in human . Give the symptoms and the mode of transmission of the disease.

A. Entamoeba histolytica

B. Mosquito

C. Musca

D. Plasmodium vivax

Answer: C



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37. The main cause of the disintegration of the endometrial lining

A. LH surge

B. degeneration of corpus luteum

C. ovulation during mid-cycle

D. implantation leads to pregnancy

Answer: B



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38. How many different types of genetically different gametes will be produced by a heterozygous plant having the genotype AABb Ccdd ?

- A. Two
- B. Four
- C. Eight
- D. Sixteen

Answer: B



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39. How many (in number) of the following properties are the defining characteristics of living organisms? Growth, reproduction, metabolism, cellular organisation, Consciousness

- A. Two
- B. Three
- C. Four
- D. Five

Answer: B



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40. Which of the following statements is incorrect about metagenesis ?

- A. Alternation of asexual and sexual phases in the life cycle of Obelia is called Metagenesis
- B. Metagenesis is similar to alternation of generations as found plants

C. Both the medusa and polyp are diploid

D. Medusa is the sexual phase and polyp is the asexual phase

Answer: B



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41. Gene therapy involves

A. introduction of a normal genes in cell

B. treating of defective genes with radiation

C. eliminating defective and useless genes

D. replacement of defective genes by normal

Answer: D



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42. If a person obtains transformants by inserting a recombinant DNA within the coding sequence of enzyme β -galactosidase, he will separate out recombinants from non-recombinants by which of the following observations ?

- A. non-recombinant colonies do not produce any colour ,
whereas recombinant from blue coloured colonies
- B. recombinant colonies do not produce any colour, whereas non-recombinant from blue coloured colonies
- C. recombinant and non-recombinant both produce blue coloured colonies
- D. no colonies are formed due to inspectional inactivation

Answer: B



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43. Which of the following statements are correct?

A. 1-T, 2 - T, 3 - F, 4 -F

B. 1- F, 2 - T, 3 - F, 4 -T

C. 1- T, 2 - F, 3 - T, 4 -F

D. 1- F, 2 - T, 3 - T, 4 -F

Answer: D



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44. A scrubber in the exhaust of a chemical industrial plant removes

A. Particulate matter of the size 2.5 micrometer or less

B. gases like sulphur dioxide

C. Particulate matter of the size 5 micrometer or above

D. gases like ozone and methane

Answer: B



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45. Which step of translation does not consume high energy PO_4 bond?

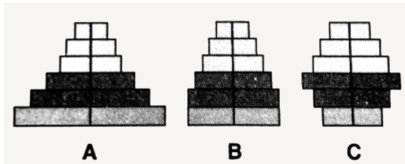
- A. Translocation
- B. Amino acid activation
- C. Peptidyl transferase reaction
- D. Aminoacyl tRNA binding to A-site

Answer: C



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46. Representation of age pyramids for the human population is given below. Identify A, B, and C by selecting the correct option .



- A. *A* *B* *C*
Declining Stable Expanding
- B. *A* *B* *C*
Stable Expanding Declining
- C. *A* *B* *C*
Expanding Stable Declining
- D. *A* *B* *C*
Stable Declining Expanding

Answer: C

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47. A heterozygous father suffers from an autosomal dominant trait.
Which of these statements is true ?

- A. All sons will suffer from the disease while the daughters will not suffer from the disease
- B. All daughters will suffer from the disease while the sons will not suffer from the disease
- C. None of his children will suffer from the disease
- D. Some of his children may suffer from the disease

Answer: D



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48. Stolon is a type of vegetative propagule which is majorly observed in strawberries . It is a modified

- A. Sub-aerial stem
- B. Underground stem

C. aerial stem

D. root

Answer: A



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49. During the complete oxidation of glucose, the proportion of ATP formed by substrate-level phosphorylation is

A. 100 %

B. 89.5 %

C. 10.5 %

D. 50 %

Answer: C



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50. Which of these examples will have the steepest curve when log of species richness and log of area are plotted on a graph?

- A. plants in Britain
- B. birds in California
- C. molluscs in New York State
- D. mammals in the tropical forests of different continents

Answer: D



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51. Which of the following is not the application of transgenic animals ?

- A. Developing animals specially created for treating AIDS

- B. Molecular diagnosis of pathogens such as detecting presence of antigens their protein or glycoproteins, etc.
- C. To obtain genetically engineered products like alpha-1 antitrypsin , etc .
- D. To test pharmaceutical, drugs and vaccines etc.

Answer: B



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52. The inheritance pattern of a gene over generations among human is studied by the pedigree analysis. Character studied in the pedigree analysis is equivalent to

- A. Quantitative trait
- B. Mendelian trait
- C. Polygenic trait

D. Maternal trait

Answer: B



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53. Electroporation is a technique that can be used for genetic engineering . This technique enables gene manipulation by

- A. Promotion of seed germination by induced imbibitions of water with electric current
- B. Making transient pores in cell membrane to facilitate entry of gene constructs
- C. Purification of saline water with the help of an artificial membrane
- D. Passage of sucrose through sieve pores by electroosmosis.

Answer: B



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54. In a detritus food chain, decomposition of detritus depends upon all, except

- A. Oxygen non-availability
- B. Chemical composition of detritus
- C. temperature and soil moisture
- D. soil microbes

Answer: A



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55. Which of the following is a useful indicator of eutrophication ?

A. BOD

B. CFC

C. DDT

D. 2, 4-D

Answer: A



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56. Match column I with column II and select the CORRECT option

| | Column I | | Column II |
|-------|---------------------------------|----|---------------------------------|
| (i) | Helicase | P. | Stabilizes ssDNA |
| (ii) | Single-stranded binding protein | Q. | Release tension in uncoiled DNA |
| (iii) | Topoisomerase | R. | Synthesizes primers |
| (iv) | Primase | S. | Unwinds DNA strands |

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

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

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

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

Answer: C



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57. What would be the blood group of a father who has a child suffering from erythroblastosis foetalis ?

A. Father's blood group is definitely Rh-ve

B. Father's blood group is definitely Rh+ve

C. Father's blood group may be definitely Rh+ve or Rh-ve

D. Father's blood group is definitely O Rh-ve

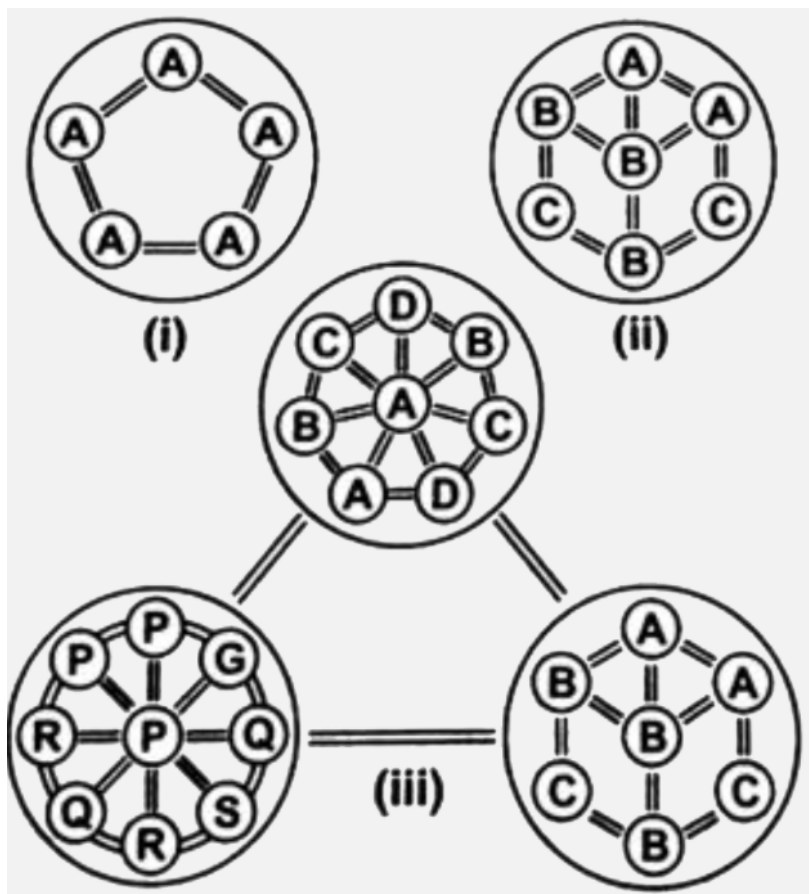
Answer: B



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58. Different species are represented by A, B ,C ,D ,G, P, Q ,R and S .

Which of the following represents a community ?



A. (i)

B. (ii)

C. (iii)

D. both (ii) and (iii)

Answer: B



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59. Which of the following cellular metabolic processes can occur both in the presence or absence of O_2 ?

A. Glucolysis

B. Fermentation

C. TCA cycle

D. Electro transport coupled with chemiosmosis

Answer: A



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60. This bird has become recently extinct from



- A. India
- B. Mauritius
- C. Australia
- D. Maldives

Answer: B



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61. If a colour blind person marries a normal women whose father was colour blind, then what percentage of the male progeny will be affected ?

- A. There will be no daughter colourblind
- B. All sons will be colourblind
- C. All daughter will be colourblind
- D. Half sons will be colourblind

Answer: D



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62. Find the correct Statement .

- A. Ori means origin transcription
- B. Some bacterial cell may have copy number of plasmids vary from 15-100
- C. Vector should have many recognition sites for commonly used restriction enzyme so that alien DNA can attach to any one of the sites easily .
- D. tet^R gene in pBR322 can be cleaved by *pvu I* and *Pst I*.

Answer: B



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63. Which one is not correctly matched ?

- A. Productivity - rate of biomass production
- B. Gross primary productivity - photoautotrophs
- C. Net primary productivity - available biomass for consumption
- D. Secondary productivity - formation of new organic matter is producer

Answer: D



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64. DHU loop in tRNA is referred as

- A. 'Most specify ' part of tRNA
- B. Enzyme attachment site

C. Ribosomal attachment site

D. Aminoacyl attachment site

Answer: C



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65. If four o' clock plants, the gene for red flower colour (R) is incompletely dominant over the gene for white flower colour (r), hence the plants heterozygous for flower colour (Rr) have pink flower. What will be the ratio of offsprings in a cross between the red flowers and pink flowers ?

A. 75% red flowers , 25. pink flowers

B. All red flowers

C. 50% red flowers , 50% pink flowers

D. Red : pink : white 1 : 2 : 1

Answer: C



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66. From the statements given below, choose the option that are true for a typical femal gametophyte of a flowering plant.

- (i) It is 8-nucleate and 7-celled at maturity.
- (ii) It is free-nuclear during the development.
- (iii) It is situated inside the integument but outside the nucellus.
- (iv) It has an egg apparatus situated at the chalazal end.

A. i, iii and iv

B. ii, iii and iv

C. i, ii and iv

D. i , iii and iv

Answer: C



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67. Radial vascular bundles characteristically occurs in

- A. monocot and dicot stems .
- B. monocot and dicot leaves .
- C. monocot and dicot roots.
- D. all of these

Answer: C



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68. Phylum Protozoa is classified on the basis of

- A. Mode of reproduction
- B. Locomotory organelles

C. made of nutrition

D. None of these

Answer: B



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69. Select the wrong match :

A. Castor seeds - Dicot and endospermic

B. Bean - Dicot and non-endospermic

C. Maize - Monocot and endospermic

D. Mustard - Dicot and endospermic

Answer: D



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70. Read the following statements and find out the incorrect statement.

- A. Algae usually reproduce vegetatively by fragmentation , asexually by formation of different types of spores and sexually by formation of gemmules.
- B. Algae are classified into three classes , pteridophytes into four classes and angiosperm into two classes .
- C. Algae are chlorophyll bearing simple thalloid , autotrophic and largely aquatic organisms .
- D. The plant body of algae is more differentiated than that of bryophytes.

Answer: D

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71. *monascus purpureus* is a yeast used commercially in the production of

- A. streptokinase for removing clots from the blood vessels.
- B. citric acid.
- C. blood cholesterol - lowering statins.
- D. ethanol

Answer: C



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72. Statement -1 : The innermost layer of microsporangium is tapetum.

Statement -2 : Glandular tapetum provides nourishment to developing microspores.

- A. Only statement -1 is correct .
- B. Only statement -2 is correct
- C. Both statement 1 & 2 is correct
- D. Both statement 1 & 2 is incorrect.

Answer: C



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73. The hormone responsible for nutrient mobilization which helps in the delay of leaf senescence is

- A. auxin.
- B. gibberellin
- C. cytokinin
- D. ethylene

Answer: C

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74. The products of the photochemical reaction are :

- A. O_2 , ATP and NADPH
- B. Glucose and O_2
- C. ATP and NADPH
- D. Organic compounds especially carbohydrates

Answer: A

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75. Growth plotted against time gives a

A. Parabolic curve

B. Sigmoid curve

C. Upright line

D. Horizontal line

Answer: B



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76. Root pressure is absent in

A. rapidly transpiring plants.

B. conifers.

C. plant growing in cold soils.

D. all of the above

Answer: D

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77. Match the columns and choose the CORRECT option.

| | |
|---------------------|--|
| 1. Totipotency | (a) Breeding crops with higher levels of nutrients. |
| 2. Micropropagation | (b) Plant grown from a hybrid protoplast. |
| 3. Somatic hybrid | (c) Producing a large number of plants through tissue culture. |
| 4. Biofortification | (d) Capacity to generate. |

A. 1-d,2-c,3-a,4-b

B. 1-a,2-c,3-b,4-d

C. 1-c,2-b,3-a,4-d

D. 1-d,2-c,3-b,4-a

Answer: D

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78. In endarch condition of xylem, protoxylem lies _____ of metaxylem.

- A. on outer side
- B. on inner side
- C. both on inner and outer side
- D. in centre

Answer: A



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79. Plasmogamy is fusion of

- A. Two haploid cells including their nuclei
- B. Two haploid cells without nuclear fusion
- C. Sperm and egg

D. Sperm and two polar nuclei

Answer: B



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80. A characteristic of drupe is

A. stony mesocarp

B. stony endocarp

C. fleshy seed coat.

D. stony pericarp

Answer: B



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81. Which of the following is an example of heterosporous pteridophyte ?

- A. Selaginella
- B. Salvinia
- C. Salvia
- D. Both (A) and (B)

Answer: D



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82. If BOD of sample water is very high, the sample is

- A. highly polluted.
- B. less polluted
- C. not polluted.

D. potable.

Answer: A



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83. What is the direction of micropyle in anatropous ovule?

A. Upward

B. Downward

C. Right

D. Left

Answer: B



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84. Select the incorrect pairing.

A. C_3 - Example maize

B. C_4 - Structure : Kranz anatomy

C. Calvin cycle - First stable product PGA

D. Hatch & Slack cycle - First stable product OAA

Answer: A



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85. Which of the following is correct about growth?

A. Growth is regarded as one of most fundamental and conspicuous characteristics of living being.

- B. Growth can be defined as an irreversible permanent increases in size of an organ or its parts or even of an individual cell.
- C. Generally , growth is accompanied by metabolic processes (both anabolic and catabolic), that occur at the expense of energy.
- D. All of the above

Answer: A



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86. Nucleolus is :

- A. Rounded structure found in cytoplasm near nucleus
- B. Rounded structure inside nucleus and having rRNA
- C. Rod - shaped structure in cytoplasm near the nucleus

D. None of the above

Answer: B



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87. Select the incorrect statement from the following

A. Sunhemp

B. Belladonna

C. Tulip

D. Soyabean

Answer: B



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88. After penetrating stigmatic and stylar tissue, the pollen tube usually grows downwards towards egg because

- A. It has no other passage to follow
- B. It grows under the control of egg nucleus
- C. The egg cell attracts the pollen tubes as they have dissimilar electric charge
- D. The filiform apparatus of synergids are believed to attract the pollen tubes

Answer: D



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89. Which of the following statement is correct ?

- A. All bacteria are heterotrophic

- B. Bacteria are either heterotrophic, chemoautotrophic
- C. Bacteria can also be photoautotrophic
- D. Bacteria are either chemoautotrophic or photoautotrophic

Answer: C



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90. In a fertilized embryo sac, the haploid, diploid and triploid structures are

- A. Antipodal, zygote and primary endosperm nucleus
- B. Synergid, antipodal and polar nuclei
- C. Antipodal , synergid and primary endosperm nucleus
- D. Synergid, polar nuclei and zygote

Answer: A



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