



BIOLOGY

BOOKS - NTA MOCK TESTS

NEET MOCK TEST 15

Biology

1. In majority of the angiosperms, pollen is released in a two-celled stage. The two cells are

- A. the gamete and generative cell
- B. the vegetative cell and tube nucleus
- C. two male gametes

D. the vegetative cell and generative cell

Answer: D



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2. Which set of hormones are secreted during pregnancy only?

A. Estrogen, hPL, Relaxin

B. Progesterone, Cortisol, hCG

C. hCG, hPL, Relaxin

D. Cortisol, Progestogens, Relaxin

Answer: C



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3. Which of the following is the correct description of the mechanism of action of a copper IUD?

- A. These inhibit ovulation and implantation as well as alter the quality of cervical mucus to prevent or retard entry of sperms.
- B. These increase phagocytosis of sperms within the uterus and the certain ions released from it suppress sperm motility and the fertilising capacity of sperms.
- C. Ovum and sperms are prevented from physically meeting.
- D. These prevent conception by blocking the entry of sperms through the cervix.

Answer: B



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4. Intentional or voluntary termination of pregnancy before full term is called medical termination of pregnancy (MTP) or induced abortion. Which of the following is incorrect about MTP?

- A. MTP has a significant role in decreasing the population.
- B. Government of India legalised MTP in 1971 with some strict conditions to avoid its misuse.
- C. *MTP_s* are considered relatively safe during the first trimester in comparison to second trimester abortions.
- D. MTP is not allowed if the pregnancy is the result of rape.

Answer: D



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5. If the two genes are having % of recombination less than 50 % , then the progeny of F_2 generation will show

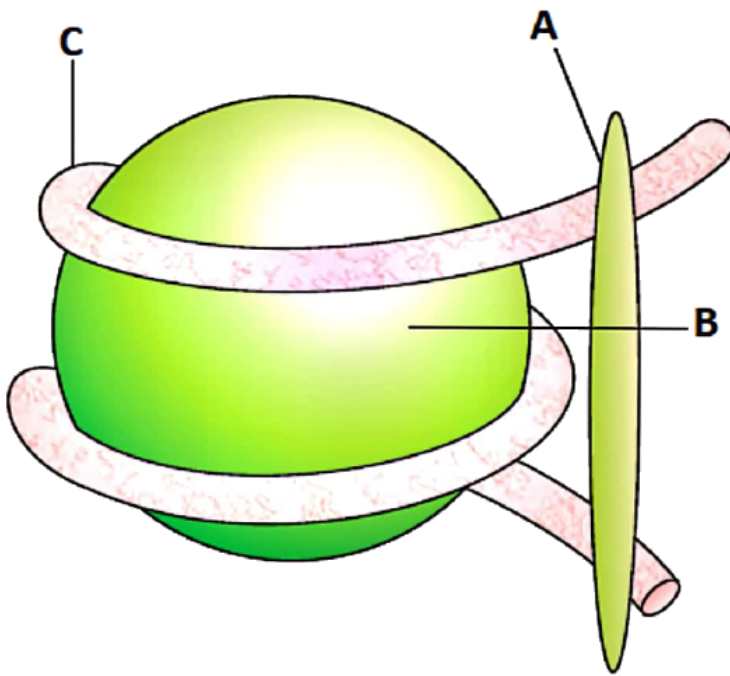
- A. higher number of the recombinant types
- B. segregation in the expected 9 : 3 : 3 : 1 ratio
- C. segregation in 3:1 ratio
- D. higher number of the parental

Answer: D



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6. Identify parts labelled A, B, and C in the given diagram and select the correct option.



A.

A	B	C
Negatively charged DNA	Positively charged histone octamer	H1 histone

B.

A	B	C
H1 histone	Negatively charged DNA	Positively charged histone octamer

C.

A	B	C
H1 histone	Positively charged histone octamer	Negatively charged DNA

D.

A	B	C
H1 histone	Negatively charged histone octamer	Negatively charged DNA

Answer: C





7. Select the two correct statements out of the four (1-4) given below about lac operon.

1. Glucose or galactose may bind with the repressor and inactivate it
2. In the absence of lactose the repressor binds with the operator region
3. The z-gene codes for permease
4. This was elucidated Francois Jacob and Jacque Monod

The correct statements are :

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

Answer: C



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8. Sometimes the change in allelic frequency is so different in the new sample of the population that they become a different species. The original drifted population create a different population. This is called

- A. Founder effect
- B. Bottleneck effect
- C. Metapopulation effect
- D. Gene migration

Answer: A



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9. How many of the following diseases are transmitted by contaminated food and water?

[Typhoid, Ringworms, Pneumonia, Common cold, Dengue, Amoebiasis, Chikungunya]

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

Answer: B



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10. Select the incorrect statement from the following.

- A. Through vaccines, antigenic proteins of pathogen or dead or weakened pathogens are introduced in the body.
- B. Anti-venom provides active immunity.
- C. Anti-histamines control allergy
- D. Both (a) and (b)

Answer: B



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11. If the protoplast of tomato is fused with potato protoplast and grown as new plant, it will be known as

- A. Explant

B. Somaclones

C. Callus

D. Somatic hybrid

Answer: D



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12. Mark the incorrect statement.

A. Insect and pest infestation is one of the major causes for large scale destruction of crop plants.

B. Breeding method for insect pest resistance involves the special steps that are not similar to use in other agronomic traits such as yield or quality.

C. Malnutrition of micronutrients and vitamins can be termed as hidden hunger.

D. Somaclones are genetically identical to original plants.

Answer: B

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13. Which of the following describes out-crossing ?

A. Mating of more closely related Individuals within the same breed for 4- 6 generations.

B. This is the practice of mating of animals within the same breed, but having no common ancestors on either side of their pedigree up to 4-6 generations.

C. Superior males of one breed are mated with superior females of another breed (of same species).

D. Male and female animals of two different species are mated.

Answer: B



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14. *Monascus purpureus* is a yeast used commercially in the production of

A. Ethanol

B. Streptokinase for removing clots from the blood vessels

C. Citric acid

D. Blood cholesterol lowering statins

Answer: D



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15. Which of these is not the feature of a cloning vector?

A. Ori supporting high copy number

B. Selectable marker

C. Resistant to the action of restriction enzymes

D. Presence of cloning site

Answer: C



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16. Primers used in PCR must be:

- A. 3'-end specific
- B. 5'-end specific
- C. It can be 3'-end specific or 5'-end specific.
- D. Primers are not needed in PCR.

Answer: A



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17. The variant of cry genes used to control corn borers is

- A. cryIAc
- B. cryIAb
- C. cryIIAb

D. Both (a) and (b)

Answer: B



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18. Which of the following locations acts as the reservoir for nitrogen cycle?

A. Atmosphere

B. Sedimentary bedrock

C. Soil

D. Fossilised plant and animal remains

Answer: A



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19. All of the following contributed to Mendel's success, except

- A. Mendel's selection of pea plant for experiments
- B. Application of mathematical knowledge
- C. Working on small sampling size at a time
- D. Taking one character at a time.

Answer: C



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20. Select the incorrect statement.

- A. A genus comprises of a group of related species which has more characters in common in comparison to species

of other genera.

B. Higher the category, greater is the difficulty of determining the relationship to other taxa at the same level.

C. Going higher from species to kingdom, the number of common characteristics goes on increasing.

D. All organisms, including plants and the animal kingdom, have species as the lowest category.

Answer: C



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21. Which organism does not produce oxygen during photosynthesis?

A. Anabaena

B. Funaria

C. Higher plants

D. Rhodospirillum

Answer: D



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22. Which one is smallest among the following

A. TMV

B. Bacteriophage

C. Neurospora

D. E. coli

Answer: B



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23. The second-largest phylum of invertebrate animals is:

- A. Annelida
- B. Aschelminthes
- C. Mollusca
- D. Platyhelminthes

Answer: C



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24. Select the set of incorrect statements.

- I. The circulatory system in Platyhelminthes has a single opening.
- II. Annelids are the first animals to have true coelom and metamerism (true segmentation).
- III. The space between the hump and the mantle is called the mantle cavity in which gills are present.
- IV. Most of the echinoderms are bisexual.

A. I, II

B. III, IV

C. II, III

D. I, IV

Answer: D



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25. How many of the following shows zygomorphic flowers with valvate/imbricate aestivation?

Indigofera, Lupin, Petunia, Aloe, Colchicum autumnale, Sesbania, Trifolium, Solanum

A. 3

B. 4

C. 5

D. 6

Answer: B



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26. growth/annual rings are formed by the activity of

- A. Cambium
- B. Secondary xylem
- C. Phellogen
- D. Xylem and phloem

Answer: A



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27. How many spermathecae are found in the male cockroach?

- A. One
- B. One pair

C. 2 pairs

D. none

Answer: D



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28. In *Periplaneta americana*, the blood vascular system is of ___A___ type. Blood vessels are ___B___. The visceral organs are located in ___C___. ___C___ is filled with a fluid which is composed of ___D___ and ___E___.

A. *A* *B* *C* *D* *E*
Closed absent Enterocoel Plasma Haemocytes

B.

A *B* *C* *D* *E*
open Poorly developed Haemoel RBC Haemolymph

A	B	C	D	E
Open	Absent	Haemocoel	Haemocytes	Lymph

C.

D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>
open	Poorly developed	Haemocoel	plasma	Haemocytes

Answer: A



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29. The axoneme is found in

A. Cilia

B. Flagella

C. Microbodies

D. Both (A) and (B)

Answer: D



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30. Assertion : Competitive inhibitor is also called as substrate analogue.

Reason : It resembles the enzymes in structure.

- A. Both 1 and 2 are correct
- B. 1 is correct and 2 is incorrect
- C. 1 is incorrect and 2 is correct
- D. Both are incorrect.

Answer: B



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31. Analyze the events occurring during every stage of the cell cycle, how the amount of DNA content (C) per cell changes and select the correct option.

- A. DNA content becomes doubled during S phase of cell cycle
- B. DNA content is reduced to half during anaphase
- C. DNA content remain same during meiosis I
- D. Both (a) and (b)

Answer: D



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32. Which of the following statement is incorrect ?

- A. Different substances move independently along their concentration gradient in mass flow.
- B. Active absorption of ions from the soil by the root is mainly affected by respiratory activity of root.
- C. The translocation of organic solutes in sieve tube members is supported by mass flow.
- D. Root pressure develops due to active absorption.

Answer: A



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33. How many electron and protons are required to fix a dinitrogen ?

A. 32 each

B. 8 each

C. 6 each

D. 4 each

Answer: B



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34. ATP as well as $\text{NADPH} + \text{H}^+$ both are required during the conversion of _____ in C_3 cycle

A. $\text{RUBP} + \text{CO}_2 \rightarrow \text{PGA}$ (2 molecules)

B. $\text{PGA} \rightarrow \text{PGAL}$

C. $\text{PGAL} \rightarrow \text{DHAP}$

D. Fructose 1,3 - biphosphate → Glucose

Answer: B

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35. In the electron transport chain the correct sequence of electron acceptor is

- A. Cytochrome a, a_3 , b, c
- B. Cytochrome b, c, a, a_3
- C. Cytochrome b, c_3 , a, a_3
- D. Cytochrome c, b, a, a_3

Answer: B

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36. Ethylene is highly effective in fruit ripening. It enhances the respiration rate during ripening of fruits, this rise in rate of respiration is called?

- A. Respiratory climactic
- B. Respiratory quotient
- C. Respiratory effect
- D. Respiratory quiescence

Answer: A



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37. PEM (protein-energy malnutrition) that affects the infants results in

- A. Marasmus
- B. Kwashiorkor
- C. Pot-bellied
- D. Obesity.

Answer: A



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38. Moist cuticle is the respiratory organ in

- A. Insects
- B. Earthworms
- C. Aquatic arthropods and molluscs
- D. Amphibians like frogs

Answer: B



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39. ECG is a graphical representation of the electrical activity of the heart during a cardiac cycle. Identify the incorrect interpretation.

- A. P-wave: Depolarisation of the atria.
- B. QRS complex: Ventricular systole.
- C. T-wave: Ventricular repolarisation.
- D. End of T-wave: End of ventricular systole.

Answer: B



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40. The amount of urine released by humans in a day is

A. 1 to 1.5 litres of slightly acidic (pH- 6.0) urine having 45-60 gm of urea.

B. 1 to 1.5 litres of slightly acidic (pH- 6.0) urine having 25-30 gm of urea.

C. 0 to 1 litres of slightly alkaline (pH- 7.3) urine having 25-30 gm of urea

D. 1 to 1.5 litres of slightly acidic (pH- 6.0) urine having 45-60 gm of urea.

Answer: B



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41. Midbrain is located between

- A. Thalamus/hypothalamus of forebrain and pons varolii of hindbrain
- B. Thalamus/hypothalamus of forebrain and medulla of hindbrain
- C. Olfactory lobe of forebrain and pons varolii of hindbrain
- D. Olfactory lobe of forebrain and medulla of hindbrain

Answer: A



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42. Thymosins play role in

- A. Cell-mediated immunity only

- B. Humoral immunity only
- C. Both cell-mediated and humoral immunity
- D. Neither cell-mediated and nor humoral immunity

Answer: C



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43. Which set of animals doesn't belong to the same phylum?

- A. Roundworm, Hookworm, Filarial worm
- B. Earthworm, Leech, Nereis
- C. Sea pen, Brain coral
- D. Devil fish, King crab, Chiton

Answer: D



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44. Respiratory quotient for tripalmitin is

A. 0.9

B. 0.7

C. 1.0

D. 1.4

Answer: B



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45. The periderm includes

A. Cork

B. Cork cambium

C. Secondary cortex

D. All of these

Answer: D



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46. Which of the following is correct about phenylketonuria?

A. It is an example of pleiotropy

B. It is an autosomal dominant disease

C. It is caused due to single gene mutation

D. Both (A) and (C)

Answer: D



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47. Two features present in meiosis but absent in mitosis are

- A. Pairing of non-homologous chromosomes
- B. Pairing of homologous chromosomes and recombination between them
- C. Replication of chromosome
- D. All of these

Answer: B



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48. Which of the following animals have different symmetry in comparison to the other three?

A. Pila

B. Pleurobrachia

C. Sycon

D. Asterias

Answer: A



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49. Stomata are not found in

A. Algae

B. Mosses

C. Ferns

D. Liverworts

Answer: A



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50. Zygote undergoes cleavage while moving through the isthmus of the oviduct towards the uterus and forms daughter cells called blastomeres. The embryo with 8 to 16 blastomeres is called a ___A___ which continues to divide to form ___B___ in uterus. The blastomeres in the ___B___ are arranged into an outer layer called ___A___ and an inner group of cells called the inner cell mass.

A.		A		B		C	
		Morula		Blastocyst		Haemocyto	

B.

A	B	C
Morula	Gastrula	Haemocytoblast

C.

A	B	C
Blastula	Gastrula	Trophoblast

D.

A	B	C
Morula	Blastula	Trophoblast

Answer: D



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51. Mycoplasmas, the smallest cells, are only (i) μ m in length while bacteria could be (ii) μ m. Among multicellular organisms, human red blood cells are about (iii) μ m in diameter. Identify (i), (ii), and (iii).

A.

(i)	(ii)	(iii)
0.5	5 – 7	7

B.

(i)	(ii)	(iii)
0.3	3 – 7	9

C.

(i)	(ii)	(iii)
0.3	3 – 5	4

D.
$$\begin{vmatrix} \text{(i)} & \text{(ii)} & \text{(iii)} \\ 0.3 & 3 - 5 & 7 \end{vmatrix}$$

Answer: C



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52. The cellulosic cell wall is observed in members of

A. Protista

B. Plantae

C. Both (a) and (b)

D. Monera

Answer: B



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53. Read the following statements :

- i. Open type circulatory systems are found in Arthropods.
- ii. Pseudocoelomates are bilaterally symmetrical.
- iii. Most of the sponges are radially symmetrical.
- iv. Platyhelminthes have a tissue level of organization.

How many of the above statements are incorrect?

- A. One
- B. Two
- C. Three
- D. None

Answer: B



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54. A man of 'A' blood group marries a woman of 'AB' blood group. Which types of progeny would indicate that the man is heterozygous?

A. O

B. A

C. B

D. AB

Answer: C



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55. The essential chemical components of many coenzymes are

A. Nucleic acid

B. Carbohydrates

C. Vitamins

D. Proteins

Answer: C



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56. Biological organisation starts with

A. Cellular level

B. Organismic level

C. Submicroscopic molecular level

D. Tissue level

Answer: C



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57. Sea fur belongs to phylum A. Members of such phylum have:

- A. Bilateral symmetry
- B. Blind sac body plan
- C. Metamerism
- D. Triploblastic nature

Answer: B



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58. Which of the following statement is incorrect about the phylum hemichordata?

- A. Excretion by proboscis glands
- B. Respiration by gills
- C. Monoecious
- D. Have a rudimentary structure in the

Answer: C



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59. Cytoskeleton is made up of

- A. Callus deposits
- B. Cellulosic microfibrils
- C. Proteinaceous filaments
- D. Calcium carbonate granules

Answer: C



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60. Callus can form plantlets by altering the concentration of

- A. Phytohormones
- B. Amino sugars
- C. Vitamins
- D. Sugars

Answer: A



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61. Which of the following is correct with respect to biofortified food?

A. Wheat variety, Atlas 66, having a high lysine and tryptophan content.

B. vitamin C enriched crop are bitter gourd, bathua, mustard, tomato

C. vitamin A enriched carrots, spinach, French and garden peas

D. iron and calcium enriched broad and lablab

Answer: B



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62. How many of the following structures/organs belong to the male reproductive system of a cockroach?

[Utricular gland, spermatheca, oothecal chamber, Phallic gland, seminal vesicles]

A. None

B. One

C. Two

D. Three

Answer: D



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63. Dense connective tissue can be observed at all of the following locations, except

A. Ligament

B. Tendon

C. Beneath the skin

D. Skin

Answer: C



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64. Select the incorrect statement.

A. Algin is obtained from Algae.

B. Cyanobacteria form mycorrhizae which helps in the absorption of phosphate

C. Salvinia, Selaginella and Azolla show heterospory.

D. The genome of TMV is RNA.

Answer: D



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65. Conducting part of the tertiary bronchi and bronchioles end up in

- A. Segmental bronchi
- B. Segmental bronchiole
- C. Respiratory bronchioles
- D. Terminal bronchiole

Answer: D



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66. The process of conversion of organic nitrogen from dead material to ammonia is known as

- A. Nitrification
- B. Decomposition
- C. Denitrification
- D. Ammonification

Answer: D



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67. Which of the following is incorrectly matched?

- A. ABO Blood group in Humans - Multiple allelism.

B. Skin colour in human - Multiple allelism

C. Flower colour in *Mirabilis* - Incomplete dominance.

D. Phenylketonuria - Pleiotropism.

Answer: B



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68. Vasa recta is associated with

A. Most of cortical nephrons

B. Few of cortical nephrons only

C. Juxta medullary nephrons

D. Urinary bladder

Answer: C



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69. Rubisco enzyme can act both as carboxylase and as oxygenase. In C_4 cycle it functions as

- A. Oxygenase only
- B. Carboxylase only
- C. Mainly carboxylase activity minimizing oxygenase.
- D. Oxygenase but sometimes as carboxylase

Answer: C



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70. Which of the following is not a post pollination development?

- A. A Formation of callose plugs in pollen tube
- B. Division of pollen cell into tube cell and generative cel.
- C. Secretion of pectinase and other hydrolytic enzyme.
- D. Swelling of tube cell and formation of pollen tube.

Answer: B

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71. Which of the following is not the example of synovial joint?

- A. Between humerus and pectoral girdle
- B. Between atlas and axis

C. Between carpal and metacarpal of thumb

D. Between the adjacent vertebrae

Answer: D



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72. How many of the given statements are correct?

A. Hypothalamus is the centre for eating and drinking.

B. Corpus callosum is made up of nerve fibres.

C. ADH is synthesized by the posterior pituitary.

D. Balancing by semicircular canals is done by the macula.

A. One

B. Two

C. Three

D. All

Answer: B



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73. According to the taxonomic hierarchy, which of the following statements are correct?

A. Felis and Canis are placed under same family.

B. Potato and brinjal belong to the same genus.

C. Classes of plants with few similar characters are assigned to higher category called order.

D. Panther and Felis domestica are placed in different families.

Answer: B



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74. Dikaryon formation is characteristic of

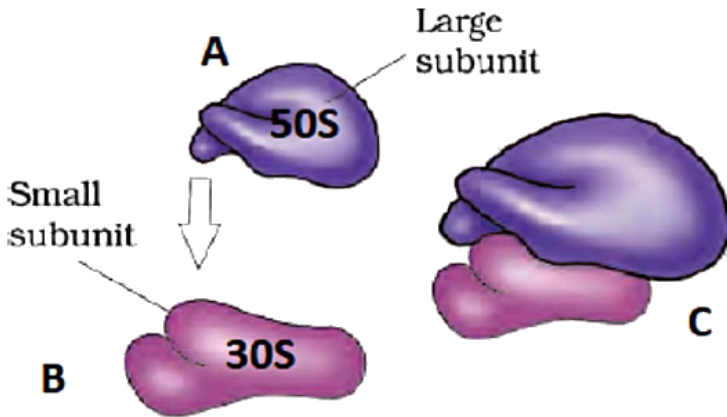
- A. Ascomycetes and Basidiomycetes
- B. Phycomycetes and Ascomycetes
- C. Basidiomycetes and Zygomycetes
- D. Phycomycetes and Deuteromycetes

Answer: A



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75. Analyze the diagram given below, and select the correct option regarding part labeled as C.



- A. 70S subunit formed during eukaryotic translation
- B. 70S subunit formed during prokaryotic translation
- C. 80S subunit formed during prokaryotic translation
- D. 80S subunit formed during eukaryotic translation

Answer: B

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76. The lining of each seminiferous tubule is made up of 2 types of cells - A and B. 'A' cells undergo meiosis and result in sperm formation. 'B' cells secrete

A. Testosterone

B. Estrogen

C. FSH

D. None of these

Answer: D



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77. The largest part of the fallopian tube is

- A. Isthmus
- B. Fimbriated end
- C. Ampulla
- D. Uterine part of Fallopian tube.

Answer: C



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78. The mRNA Consisting of 282 nucleotides can produce a polypeptide chain of

- A. 282 amino acids
- B. 120 amino acids
- C. 93 amino acids

D. 94 amino acids

Answer: C



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79. "Every species has a right to live". What kind of value implies the conservation of biodiversity?

- A. Narrowly utilitarian
- B. Broadly utilitarian
- C. Aesthetic
- D. Ethical

Answer: D



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80. In a comparative study of grassland ecosystem and pond ecosystem it may be observed that:

- A. The abiotic components are almost similar.
- B. The biotic components are almost similar
- C. Both biotic and abiotic component are different.
- D. Primary and secondary consumers are similar

Answer: C



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81. Which of the statement is not applicable to mutations?

- A. These are discontinuous variations

B. Usually recessive

C. Usually harmful

D. Predictable

Answer: D



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82. Which of the following set shows convergent evolution?

A. Anteater and Numbat

B. Lemur and Bobcat

C. Spotted Cuscus and Wolf

D. Mole and flying Phalanger

Answer: A



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83. In eukaryotic transcription, heteronuclear RNA (hnRNA) is transcribed by

- A. RNA polymerase I
- B. RNA polymerase II
- C. RNA polymerase III
- D. All of these

Answer: B



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84. Vertical distribution of different species occupying different levels is called

- A. Stratification
- B. Eutrophication
- C. Productivity
- D. Biodiversity

Answer: A

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85. Crossing over occurs between

- A. Two different genomes
- B. Homologous chromosome

C. Sister chromatid

D. Non homologous chromosome.

Answer: B



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86. Select the set of opioids.

A. Morphine and hashish

B. Codeine and charas

C. Heroin and marijuana

D. Morphine and heroin.

Answer: D



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87. Blood and bone marrow tests are mainly done for analysis of

- A. Leukemia
- B. Gastric carcinoma
- C. Skin carcinoma
- D. Brain tumour

Answer: A

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88. When both alleles of a pair are fully expressed in heterozygotes, they are called

- A. Lethals

B. Codominants

C. Incomplete dominants

D. Recessive allele.

Answer: B



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89. The method of breeding, in which superior males of one breed are mated with superior females of another breed is called

A. Inbreeding

B. Inter-specific hybridization

C. Outcrossing

D. Cross Breeding

Answer: D



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90. Which layer of uterus exhibits strong contraction during parturition?

- A. Perimetrium
- B. Myometrium
- C. Endometrium
- D. Mesovarium.

Answer: B



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