

BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 83

Biology

- **1.** Which of the following structure is having maximum autorhytmicity in the normal human heart?
 - A. Purkinje fibres
 - B. Bundle of His
 - C. AV node

D. SA node

Answer: D



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- 2. Select the correct Statement about about RNAi process.
 - A. It involves silencing of a specific mRNA.
 - B. A cellular mechanisms that uses the gene's own DNA sequence to turn off mRNA expression .
 - C. It is a type of cellular defense.
 - D. All are correct

Answer: D

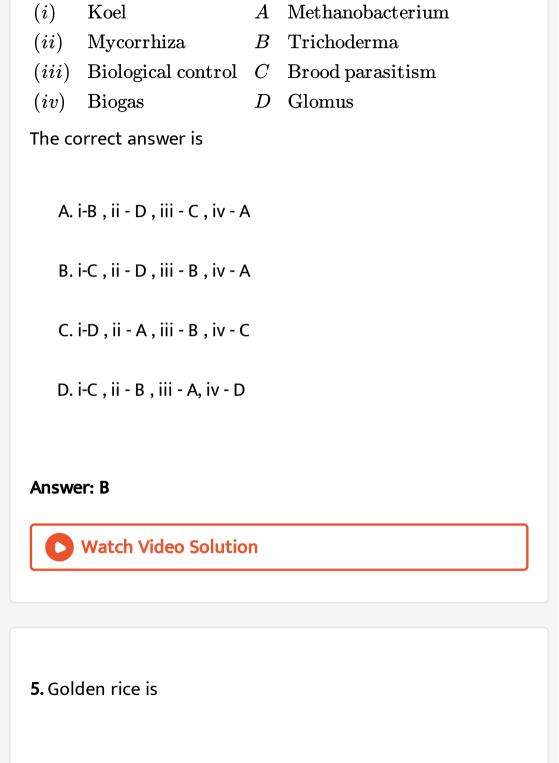
- 3. Blue green algae are and members of kingdom. ...
 - A. Photoautotrophs, Protista
 - B. Photoautotrophs, Monera
 - C. Chemoautotrophs, Monera
 - D. Chemoheterotrophs, Protista

Answer: B



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4. Match the items in 'Column-A' and 'column-B' and choose the correct answer .



Column - B

Column - A

(i)

A. A transgenic Vitamin A rich rich having gene for eta

carotene

B. Wild variety of rice with yellow coloured grains

C. A variety of yellow rice rich in protein

D. Long stored rice having yellow coloured tint

Answer: A



- **6.** In photosynthesis, light reaction includes:
 - A. Cyclin photophosphorylation
 - B. Non-cyclic photophosphorylation
 - C. Both (a) and (b)

D. None of these

Answer: C



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7. How many ATPs are produce when $12H^{\,+}$ Pass through

 F_0 – F_1 particle ?

A. 2 ATP

B. 4 ATP

C. 6 ATP

D. 5 ATP

Answer: C



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8. Which treatment or step is taken for the product formed by rDNA technology ?

A. Strict quality control testing is done on product.

B. Suitable preservation of product.

C. Formulation has to undergo clinical trials.

D. All the above

Answer: D



9. Thecell is bigger , has abundant food reserve and a large irregularly shape nucleus. The is small and has a spindle-shaped nucleus with dense cytoplasm.

- A. a vegetative cell, b generative cell
- B. a generative cell, b-vegetative cell
- C. a tapetal cell, b- endothelial cell
- D. a endothelial cell, b-tapatal cell

Answer: A



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10. Read the following statements (A - D)

(A) QRS complex in ECG indicates ventricular depolarization.

(B) The electrocardiograph machine is used to obtain Electrocardiogram a (ECG) on graph paper. (C) During a cardiac cycle, the left ventricular pumps out about 70 ml is of Oxygenated blood which is called the cardiac output. (D) The second heart sound is associated with the closure of the semilunar valves. How many statements from the above is /are incorrect? A. Two B. One

Answer: B

C. Four

D. Three



11. Which cell/ organisms is incorrectly linked with the cell wall lysing enzyme used to extract DNA?

- A. Eubacteria-Lysozyme
- B. Plant cell-Cellulase
- C. Fungus-Chitinase
- D. Animal cell-Cellulase

Answer: D



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12. Which of the following defines the phenomenon of dedifferentiation?

- A. Lossing the capacity of division
- B. Lossing the capacity of division after regaining the same
- C. Regaining the capacity of division
- D. All of these

Answer: C



- **13.** Which of the following matching is correct about excretory system in humans?
 - A. Glomerular filtration rate: 180 I/day/both kidneys
 - B. Glomerular filtration rate: 180 I/day/kidney

C. Glomerular filtration rate : The blood filtrate is 100-200

mL/min/kidney

D. Glomerular filtration rate : The blood filtrate is 200-300 mL/min / both kidney

Answer: A



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14. Which of the following term defines the promotion of flowering at low temperatures ?

A. Photoperiodism

B. Vernalization

C. Thermoperiodism

D. Florigen

Answer: B



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15. Which of the following is the most important monomer component of the chitinous exoskeleton of arthropods ?

- A. N-acetyl glucosamine
- B. Taurocholic acid
- C. Hyaluronic acid
- D. D glucosamine

Answer: A



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- 16. The enzymes that are present in the saliva are
 - A. Ptyalin, sucrose and amylase
 - B. Lysozyme, amylase and zymase
 - C. Amylase, sucrase and ptyalin
 - D. Ptyalin, lipase and lysozyme

Answer: D



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17. Which of the following is also called modified areolar tissue?

A. Dense connective tissue B. Lymph C. Ligaments D. Adipose tissue **Answer: D Watch Video Solution** 18. Which of the following is not associated with the innermost mucosa layer of the small intestine? A. Intestinal glands B. Microvilli C. Duodenal gland

D. Goblet cells

Answer: C



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19. The term ... (Smallest sustainable unit of biosphere) was proposed by

A. Ecology, Grinnel

B. Ecosystem , Tansley

C. Ecology, Lindeman

D. Ecosystem, Reiter

Answer: B



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20. Mg and Fe are needed for plants in the

A. energy transfer

B. synthesis of Chlorophyll pigment in the leaves

C. stomatal opening

D. translation of carbohydrates

Answer: B



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21. The total volume of air accommodated in the lungs at the end of a forced inspiration is called -

- A. Total Lung Capacity (TLC)
- B. Vital capacity (VC)
- C. Functional Residual capacity (FRC)
- D. Expiratory capacity (EC)

Answer: A



- **22.** Select the set of medullary respiratory centers in Brain?
 - A. Chemo-sensitive area and respiratory rhythm center
 - B. Respiratory rhythm center and pneumotaxic
 - C. Chemo-sensitive area and pneumotaxic centre
 - D. Pneumotaxic centre and vomit centre.

Answer: A



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23. What is the number of chambers in the heart of periplaneta americana?

- A. 2 chambers
- B. 4 chambers
- C. 13 chambers
- D. 11 chambers

Answer: C



24. Which of the following is required for the chemiosmosis process?

- A. Proton pump
- B. Presence of a membrane
- C. Presence of proton gradient
- D. All of these

Answer: D



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25. According to Oparin and Haldane, the primitive atmosphere on earth was having the following mixture of gases

A. H_2, NH_3, CH_4, CO_2

 $\mathsf{B.}\,CH_4,\,NH_3,\,H_2O,\,O_2$

 $\mathsf{C.}\,CH_4,H_2,NH_3,H_2O$

D. $NH_3,\,CH_4,\,H_2,\,O2$

Answer: C



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26. Which disease is accounted with the discovery of Gibberellins?

A. Bakanae fungal disease

B. Root with of coconut

C. Hope stunt

D. White rust of crucifers

Answer: A



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27. Match the following:

	Column I		Column II
A	Recent Era	(I)	Mesozoic
В	Origin of the Univer	se (II)	Coenozoic
	Origin of first cellula	ar life (III)	20 billion years
	form	(111)	ago
D	.Era of Reptiles	(1)()	2 billion years
	ricia of Repules	(1 V)	ago

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

Answer: C



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28. LSD is extracted from

A. a fungus

B. a protozoan

C. an alga

D. a bryophyte

Answer: A



29. According to Hugo deVries , the main cause of evolution
is

- A. Saltation
- B. Inheritance of acquired characters
- C. Natural selection
- D. All of these

Answer: A



- **30.** The chief advantage of encystment to an Amoeba is
 - A. The ability to live for some time without investing food

- B. The ability to survive during adverse physical conditions
- C. The chance to get rib of accumulated waste products
- D. Protection from parasites and predators

Answer: B



- 31. Read the following four statements (I-IV):
- I. In birds, the skin is dry without any glands except the preen glands which are modified sudorific glands.
- II. All mammals exclusively respire by using lungs, except dolphins.
- III. Chameleon is a tree lizard with a prehensile tall and

independently movable eyes.

IV. Amphibia is the only tetrapod vertebrate which has external fertilisation with no larval stage in their life cycle.

How many statements is / are correct form the above?

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

Answer: D



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32. Which of the following is correct about skeletal muscles?

- A. They are under the direct control of ANS.
- B. They are primarily found in hollow organs .
- C. They are bundled together in a parallel fashion.
- D. They have a smooth appearance.

Answer: C



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33. Find out the correct match from the following

- A. Structure Phylum Function
 Comb plates Cnidaria Locomotion
 - Structure Phylum Function B.
 - Cnidocytes Ctenophora Defence Structure Phylum Function
 - C. Setae Annelida Movement
- D. Structure Phylum Function
 Aristotle's lantern Mollusca To produce light

Answer: C



- **34.** What of the following is /are correct about cycas?
 - A. cycas has characteristics branched stems and pinnate leaves .
 - B. It is a dioecious plant, where male cones and megasporophylls bear on different trees
 - C. Mycorrhizal associations are commonly found in the roots of Cycas.
 - D. Both (B) and (C)

Answer: B



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35. Find the odd one out from the following.

- A. Cervical cap
- B. Lippies loop
- C. Progestasert
- D. Multiload 375

Answer: A



36. Which of the following are included as tracheophytes?

A. Bryophytes , pteridophytes and Gymnosperms but not angiosperms

B. Pteridophytes , Gymnosperms and Angiosperms but not bryophytes

C. Algae, Fungi, Bryophytes but not pteridophytes, gymnosperms and angiosperms

D. Algae, Fungi, Bacteria, Bryophytes and pteridophytes but not gymnosperms and angiosperms

Answer: B



37. Which of the following ARTs does not involve in - vitro		
fertilization ?		
A. ZIFT		
B. ICSI		
C. GIFT		
D. IUT		
Answer: C		
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38. Select the correct combination from the following .		

- A. Metal ions irreversibly attached with apoenzyme -
- B. Non-protein organic part attached tightly to the Apoenzyme - prosthetic group .
- C. Protein organic part attached loosely to the apoenzyme Coenzyme.
- D. All of these.

Answer: B



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39. Statement A: Human skull possesses two occipital condyles.

Statement B : Ribs in human are bicephalic .

Read the above statement and choose the correct option.

- A. Only Statement-A is correct
- B. Only Statement-B is correct
- C. Both Statement A and B are correct.
- D. Both Statement A and B are incorrect.

Answer: C



- **40.** Gymnosperm are named so because of the presence of
 - A. winged seeds
 - B. true fruits

- C. non-motile male gametes

 D. naked seeds
- **Answer: D**



- **41.** Which of the following is observed during stomatal closure?
 - A. Accumulation of $K^{\,+}$ ion in guard cell
 - B. Increased TP of guard cell
 - C. Increased thickening of inner wall of guard cell
 - D. Decrease in PH of guard cell

Answer: C



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42. When pollen grains of a flower are transferred to stigma of another flower of a different plant, the process is called

- A. Xenogamy
- B. geitonogamy
- C. autogamy
- D. allogamy

Answer: A



A. Hisardale		
B. Mule		
C. Hinny		
D. Liger		
Answer: A		
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44. TheX cells of testes secrete testosterone in		
Choose the correct option for X and Y.		
A. X : Leydig , Y : Seminiferous tubules		

43. Identify the crossbreed animal from the following .

- B. X: Sertoil cells, Y: Blood
- C. X: Sertoli cells, Y: Seminiferous tubules
- D. X: Leydig, Y: Blood



- **45.** Study the following statements and choose the correct answer:
- I. Cross -pollinating flowers have exotrose anthers .
- II. Samara is a type of fleshy fruit.
- III. Marginal placentation has a monocarpellary , unilocular ovary .
- IV. Opposite phyllotaxy is seen in guava.

- A. II and IV are correct but I and II are wrong
- B. II and I are correct but III and IV are wrong
- C. I, II and IV are correct but III is wrong
- D. III and IV are correct but I and II is wrong



- 46. The bipolar neurons are found in the
 - A. retina and cerebral cortex both
 - B. retina but not in cerebral cortex
 - C. cerebral cortex but not in retina
 - D. neither retina nor cerebral cortex

Answer: B



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- 47. Other than sexual contact, HIV is transmitted through
 - A. repeated blood transfusions
 - B. intramuscular administration of drugs
 - C. Mere touch and physical contact
 - D. both (A) and (B)

Answer: A



48. Which cell organelle comprises of cis and trans faces?
A. Endoplasmic reticulum
B. Golgi body
C. Ribosomes
D. Mitochondria
Answer: B
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49. Oxytocin acts on which of the following layers of the uterine wall
A. Endometrium

- B. Perimetrium
- C. Mesometrium
- D. Myometrium



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50. Which of the following correctly enlists the Components of the central neural systems ?

- A. Brain+spinal cord + somatic neural system
- B. Brain+somatic neural system + Autonomic neural
 - system
- C. Brain +spinal cord

D. Brain+spinal cord + somatic neural system+Autonomic neural system

Answer: C



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51. Division of centromere is absent in

- A. Telophase
- B. Anaphase-I
- C. Anaphase-II
- D. All of these

Answer: B

- **52.** Identify the correct sequence of succession in hydrosere.
 - A. Free-floating hydrophytes, sedges , phytoplankton, rooted hydrophytes , grasses and trees.
 - B. phytoplankton, rooted, submerged hydrophytes, floating hydrophytes, ,reed swamp Marsh meadow and trees.
 - C. phytoplankton , sedges, Free-floating hydrophytes , rooted hydrophytes , grasses and trees.
 - D. Phytoplankton , free floating hydrophytes, rooted hydrophytes, sedges, grasses and trees.

Answer: B



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- **53.** Which cells of the blastocyst are responsible for the development of the embryo and it's extra-embryonic membranes, respectively?
 - A. Trophoblast , Inner cell mass
 - B. Inner cells mass, Trophoblast
 - C. Trophoblast, stem cells
 - D. Stem cells ,Inner cells mass

Answer: B



54. Identify the set of hormones respectively antagonistic to Somatostatin and insulin .

- A. TSH, Glucagon
- B. GH, Glucagon
- C. ACTH Enterogastrone
- D. ADH, cortisol

Answer: B



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55. Find the incorrect statement.

- A. In terrestrial ecosystems larger fraction of energy flow occurs through DFC.
- B. Pyramid of energy is always upright .
- C. In comparison to food chains , food webs are more stable .
- D. Detritus food chain is not at all connected with aquatic food chain at any level .



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56. Which of the following bacterial disease is characterized by sustained high fever, weakness, abdominal pain,

constipation, headache and loss of appetite?		
A. Ascariasis		
B. Typhoid		
C. Pneumonia		
D. Tetanus		
Answer: B Watch Video Solution		
57. Select the correct Statement from the following.		
A. Endocrine system of invertebrates is very complex		

- ${\rm B.}\ T_4$ is secreted from follicular cells of parathyroid glands .
- C. Adrenal cortex secretes DHEA and cortisol
- D. Vasopressin is synthesized and released by posterior pituitary.

Answer: C



- 58. Primary productivity does not depend upon
 - A. Plant species
 - B. environmental factors
 - C. herbivore species

D. availability of nutrients .

Answer: C



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59. Which of the following is incorrectly matched?

A. Primary lymphoid organ: MALT

B. Antibody that crosses placenta: lgG

C. Vaccination : Active immunity

D. Reservoirs of monocytes : spleen

Answer: B



- **60.** Choose the correct definition of biocontrol.
 - A. Used for developing immunity in the cattle
 - B. Use of microbes to control plant diseases
 - C. Use of microbe to control cattle diseases
 - D. Alteration of defective gene

Answer: B



- **61.** Select the correct Statement .
 - A. Virus free plant can be obtained by meristem culture.

- B. In micropropagation organisms of different genotypes are produced .
- C. Plant cell without cell membrane is known as protoplasm.
- D. Pomato has all the desired combinations of characteristics for its commercial utilization .

Answer: A



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62. Out of the following hormones , how many are separated from neurohypophysis ?

[Aldosterone, MSH, Melatonin, prolactin, ADH TSH]

A. One B. Two C. Three D. Four **Answer: A Watch Video Solution** 63. The set of the organelles/structure that are absent in plant cell are A. 70S - Ribosome + dictyosomes B. 80S - Ribosome + dictyosomes C. Vacuole + chloroplast

D. Centriole + mesosomes

Answer: D



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64. Which of the following structure is connected with double ventral nerve cord in periplaneta americana?

- A. Supra pharyngeal ganglion
- B. Sub-oesophageal ganglion
- C. Sub-pharyngeal ganglion
- D. supra-oesophageal ganglion

Answer: B



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65. Which set of the cell organelle are considered to be semi-autonomous?

- A. Ribosomes and chloroplasts
- B. Mitochondria and Ribosomes
- C. Mitochondria and chloroplasts
- D. Golgi bodies and chloroplasts

Answer: C



66. Which of the following drug is obtained from the plant of genus Erythroxylum?

- A. Marijuana
- B. Hashish
- C. Heroin
- D. Cocaine

Answer: D



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67. At the end of the G2 phase, the amount of DNA in a diploid cell having the amount of chromosome 2C will be

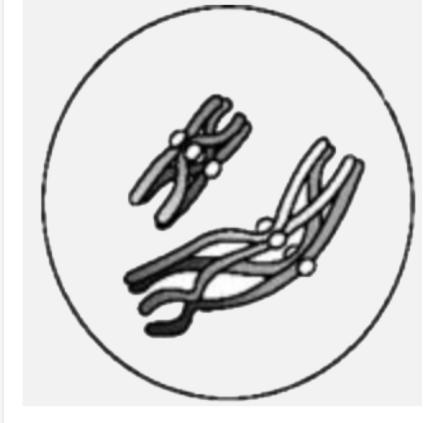
- A. C.
- B. 2C.
- C. 4C.
- $\mathsf{D}.\,C/2.$

Answer: C



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68. Correctly identify the stage of cell division shown in the given diagram.



- A. Prophase- I
- B. Prophase II
- C. Anaphase of Mitosis.
- D. Metaphase II

Answer: A



69. Vascular bundles in dicot stem are

A. Closed, collateral, exarch

B. Open , collateral , exarch

C. Closed, collateral

D. Open, collateral, endarch

Answer: D



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70. The tissue that will be present in the maximum amount in the stem of a many years old woody tree is

- A. Secondary Xylem
- B. Secondary cortex
- C. Primary xylem
- D. Primary phloem

Answer: A



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71. Which of the following is a set of characteristics corresponding to monocots ?

A. Tap root system, leaves with reticulate venation, tetramerous floral parts and one cotyledon

- B. Tap root system , parallel venation of leaves , pentamerous floral parts and one cotyledon.
- C. Fibrous root system , reticulate venation of leaves , trimerous floral parts and two cotyledons
- D. Fibrous root system , parallel venation of leaves , trimerous floral parts and one cotyledons



- 72. An example of a vascular cryptogam is
 - A. Ginkgo
 - B. Marchantia

- C. Cedrus
- D. Equisetum



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73. Most common type of angiospermic ovule is

- A. anatropous
- B. orthotropous
- C. amphitropous
- D. campylotropous

Answer: A

74. Presence of mechanical barrier between stamen and carpel which prevents self pollination , is known as :

- A. Protonadry
- B. Protogyny
- C. Homogamy
- D. Herkogamy

Answer: D



75. Match

the columns

Column - II (Mode of Reproduction)

Column I (Organism)
1.Penicillium

A Offset

2. Agave3. Water Hyacinth

B Bulbils

3. Water4. Hydra

Iyacinth C Conidia D Buds

A. 1 o C, 2 o B, 3 o A, 4 o D

B. 1 o C, 2 o D, 3 o B, 4 o A

 $\mathsf{C.}\: 1 o D, 2 o A, 3 o B, 4 o C$

D. 1 o B, 2 o D, 3 o A, 4 o C

Answer: A



76. Observe the list of organism given below:

arabidopsis , Caenorhabditis , Sunflower , Drosophila , Honey

bee, Rice , Wheat , Human , Yeast

How many of the given organism genome has been completely sequenced ?

A. 6

B. 4

C. 7

D. 5

Answer: A



77. Select the incorrect statement about tRNA.

A. tRNA possess an amino acid acceptor at 3' end for binding of amino acids.

B. tRNA is also called soluble RNA.

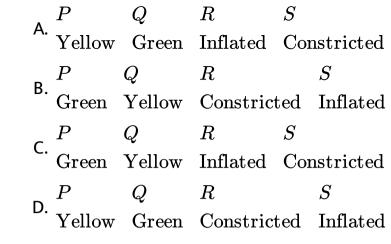
C. Only single tRNA exists for all 3 stop condons

D. tRNA posses an anticodon loop that has bases complementary to the code.

Answer: C



78. Which of the following is synthesized by RNA Polymerase				
III ?				
A. tRNA only				
B. sn RNA only				
C. 5s rRNA only				
D. tRNA, 5S rRNA and sn RNA.				
Answer: D				
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79. Select the correct traits (A - D) choser	n by Mendel.			
Characters in a pod of Pisum sativum 1. Colour	Dominant P			
1. Colour 2. Shape	R	$Q \\ S$		



Answer: C



80. Select the set of vectors used for cloning in an eukaryotic organism .

A. Plasmids , bacteriophages and Ti plasmids but not disarmed retroviruses.

- B. Bacteriophages and Ti plasmids but not disarmed retroviruses and plasmids,
- C. Plasmids , bacteriophages, Ti plasmids and disarmed retroviruses.
- D. Plasmids , bacteriophages but not disarmed retroviruses and Ti plasmids.

Answer: C



81. If the gene of interest is introduced in a tetracycline - resistant gene region of pBR322, then:

A. The host will become resistant for tetracycline

- B. The host will start producing tetracycline
- C. The host will start producing ampicillin.
- D. The host will loose resistance for antibiotic tetracycline.



- **82.** Select the correct sequence of steps involved in PCR during gene amplification.
 - A. Denaturation , annealing , extension
 - B. Denaturation, extension, annealing
 - C. Extension , Denaturation, Annealing

D. Annealing, extension, denaturation

Answer: A



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83. Select the option that shows the correct number of chromosomes in the meiocytes.

- A. Maize 20
- B. Pisum sativum 7
- C. Ophioglossum 630
- D. Potato 24

Answer: A



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84. Which of the following is correct regarding microsporogenesis in an anther ?

- A. Each microsporogenesis involves one meiosis
- B. Only 1 microspore mother cell differentiates in one pollen sac.
- C. It only consumes tapetum and not endothecium.
- D. Microspore tetrad is always trihedral.

Answer: A



- 85. A recessive allele is expressed in
 - A. Heterozygous condition only
 - B. Homozygous condition only
 - C. Both in homozygous and heterozygous conditions
 - D. Neither in homozygous nor in heterozygous condition

Answer: B



- 86. Distance between gene and percentage of linkage shows:
 - A. A direct relationship
 - B. A parallel relationship

- C. An inverse relationship
- D. No relationship

Answer: C



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87. A man having the genotype EEFfGgHH can produce P number of genetically different sperms, and a woman of genotype liLLMnNn can generate Q number of genetically different eggs. Determine the values P and Q

- A. P 4, Q 4
- B. P-4, Q-8
- C. P-8, Q-4

D. P-8, Q-8

Answer: A



- 88. Which of the following is an incorrect statement?
 - A. Brown algae has chlorophyll a and c, and fucoxanthin
 - B. Archegonia are found in Bryophyta , pteridophyta and gymnosperm
 - C. The red algae usually reproduces vegetatively by fragmentation
 - D. Fusion of two gametes of similar size takes place as in species of Eudorina



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- 89. Toxins produced by genes cryllAb and crylAb control:
 - A. Corn borer and cotton bollworm respectively
 - B. Tobacco bud worms and Cotton bollworm respectively
 - C. Cotton bollworms and corn borer respectively
 - D. Cotton bollworm and tobacco bud worms respectively

Answer: C



- 90. Find the incorrect statement from the following .
 - A. Tropical rain forests cover around 6 percent of earth's land surface.
 - B. Animals with migratory habits are badly affected by habitat loss and fragmentation .
 - C. Mammals and brides require small territories.
 - D. Amazon rain forest is being cut and cleared for soya bean cultivation or for conversion to grasslands for raising beef cattle

Answer: C



