

BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 76

Biology

1. Which of the following statement is incorrect

for opioid drugs?

- A. They bind to specific opioid receptors present in our brain / VNS only .
- B. It includes heroin , commonly called smack , and is diacetylmorphine
- C. It is white, odourless, bitter crystalline compound.
- D. It is extracted from the latex of poppy plant papaver somniferum.

Answer: A



2. How many petals are present in one flower of

Makoi?

A. 4

B. 5

C. 3

D. 6

Answer: B



3. Select the correct match from the following: I. Humoral mediated immunity: Given by killer T - cells II. – Anamnestic immune response : slow immune response. III . Antigen binding site : variable region of both heavy and light chain. A. I,II,III B. Land III C. II and III

D. only III



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4. How many hot spots of biodiversity in the world have been identified till date by Norman Myers?

A. 25

B. 34

C. 43

D. 17

Answer: B



- **5.** The two most dreadful and fatal disease throughout world are:
 - A. AIDS and malaria
 - B. Cancer and AIDS
 - C. Dengue and Tuberculosis
 - D. Polio and Leprosy

Answer: B



- **6.** Which of the following is true about phenylketonuria?
 - A. Mental retardation
 - B. Accumulation of phenylalanine and phenylpyruvic acid and other derivatives
 - C. Autosomal recessive trait

D. All the above

Answer: D



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7. A taxon is

A. a group of related families

B. a group of related species

C. A type of living organisms

D. a taxonomic group of any ranking .



- **8.** Which of the following is not the function of placenta in human female
 - A. Secrets estrogen and relaxin hormone
 - B. Facilitates supply of oxygen nutrients to embryo

- C. Secrets oxytocin hormone during pregnancy
- D. It induces foetal ejection reflex for child birth

Answer: C



9. In eukaryotic cells , the Proteins will function as ribonucleoprotein are made by

- A. Ribosomes in nucleolus
- B. Ribosomes in mitochondria
- C. Ribosomes in cytoplasm
- D. Ribosomes in Chloroplast

Answer: A



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10. Deficiency of zinc, in a plant, shows its effect on the biosynthesis of which plant growth regulator?

- A. Auxin
- B. Ethylene
- C. Cytokinin
- D. Abscisic acid

Answer: A



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11. In a human female, if the duration of her menstrual cycle is of 34 days. What is the

duration of the luteal phase and at what day ovulation occurs in this woman?

A. 14 days , 20th day

B. 20 days , 14th day

C. 17 days , 17th day

D. 16 days , 18th day

Answer: A



12. Which of the following statements is incorrect?

A. In some pteridophytes (Selaginella, salvinia) sporophylls may form distinct compact structures called or cones .

B. The pteridophytes include Horsetails and

Ferns

C. In Peterborough , the main plant body is a sporophyte

D. In Pteridophyta sexual reproduction is isogamous

Answer: D



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13. The boundaries of which of the following kingdom is not well defined?

A. Plantae

B. Fungi

C. Monera

D. Protista

Answer: D



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14. The clitoris is a tiny finger like structure which liens at the upper junction of the twoX above theY...... Opening / orifice . Select the correct option for X and Y.

A. X' – labia minora, 'Y' – Urethral

B. 'X' - labia minora, 'Y' - Vaginal

C. 'X' – labia majora , 'Y' – Vaginal

D. 'X' – labia majora, 'Y' – Urethral

Answer: A



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15. The extinction of passenger pigeon was due to

A. Increased number of predatory birds

- B. Over exploitation
- C. Non-availability of the food
- D. Disease in pigeon

Answer: B



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16. The industry which is devoted to the catching, processing or selling of fish, shellfish or other aquatic animals is called

- A. Fishery
- B. Pisciculture
- C. Aquaculture
- D. All of the above

Answer: A



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17. Which of the following statements not true for restriction enzyme which is used in genetic engineering?

- A. It recognizes a palindromic nucleotide sequence
- B. It is an endonuclease
- C. It is isolated from viruses
- D. It produces the same kind of sticky ends in different DNA molecule

Answer: C



18. Which of the following assisted reproductive technique is used toe cure infertility due to very low sperm count in the ejaculates?

A. Al (Artificial Insemination)

B. ZIFT (Zygote intra fallopian transfer)

C. IUI (Intra - uterine insemination)

D. Both (a) and (c)

Answer: D



19. For isolated of DNA, cells are treated with the specific lysine enzyme. Which of the following is not correct matched for the organism and its cell wall degrading enzyme?

- A. Bacteria Lysozyme
- B. Plant cells Cellulase
- C. Algae Methylase
- D. Fungi chitinase

Answer: C

20. Which of the following is not a characteristic of an ideal contraceptives ?

A. It should be user friendly and easily available

B. It should be effective and reversible.

C. It should be with no or least side effects .

D. It should Interfere with the sexual desire and/or on the sexual act of the user



- **21.** When a vector takes up foreign DNA segment then it is known as ?
 - A. De-recombinant DNA
 - B. Hybrid DNA-RNA
 - C. Vector DNA
 - D. Recombinant vector DNA



- **22.** How many of the following statements are incorrect?
- (i) Decomposition is largely an anaerobic process.
- (ii) Fragmentation, leaching, and catabolism occur simultaneously on detritus.
- (iii) The vertical distribution of different species occupying different levels is called

stratification. (iv) The pond is a deep water body. (v) The rate of decomposition is controlled by the chemical composition of detritus and climatic factors. A. 1 B. 2 C. 3

Answer: B

D. 4



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23. Read the following matches about chordates and it's characteristics.

I. Petromyzon - belongs to cyclostomata and are endoparasites on some fishes.

II. Scoliodon - a Chondrichthyes in which teeth are modified placoid scales.

III. Hippocampus - a cartilaginous aquarium fish known as a sea horse.

IV. Ichthyophis is a limbless viviparous amphibian with direct development.

Select the incorrect statements?

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



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24. Measurement of biomass is more accurate in terms of

- A. Dry weight
- B. Fresh weight
- C. Both (a) and (b)
- D. Detritus

Answer: A



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25. Which of the following will be least adversely affected by predation?

- A. Grass
- B. Rabbit
- C. Deer
- D. Lion



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26. Read the following statements and select the true ((T)) or false ((F)) statement .

A. The notochord is an ectodermal derived rod-

like structure in chordates.

B. Platyhelminthes are triploblastic and pseudocoelomate animals.

C. The alternation of generation in Obelia is called Metagenesis .

D. In ctenophora , only sexual mode of reproduction is observed.

A.
$$A = B = C = D$$
 $F = F = T = T$

B. $A = B = C = D$
 $T = T = F = F$

C. $A = B = C = D$
 $F = F = F = T$

D. $A = B = C = D$
 $T = F = F = F$

Answer: C



- **27.** Which among the following is the most crucial step of the Calvin cycle?
 - A. Cyclic photophosphorylation
 - B. Carboxylation
 - C. Reduction
 - D. Regeneration

Answer: B



- **28.** Which of the following tissue exerts the greatest control over the body's responsiveness to changing conditions?
 - A. Connective tissue
 - B. Epithelial tissue
 - C. Muscular tissue
 - D. Nervous tissue



- **29.** In which group of plant kingdom gametophyte is depend on sporophyte?
 - A. Algae
 - B. Bryophyta
 - C. Moss
 - D. Gymnosperm



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30. Brood pouch is formed in female Cockroach by

- A. 7th, 8th and 9th sterna
- B. 7th tergite, 8th and 9th sterna
- C. 7th, 8th and 9th terga
- D. 7th. stibnite, 8th and 9th terga

Answer: A



31. Match the column and select the correct option from following .

	Column I		Column II
(A)	Completely condensed	(i)	Prophase
	chromosome		
(B)	Division of centriole	(ii)	Metaphase
(C)	Nuclear membrane, Golgibody,	(iii)	S-phase
	ER disappear.		
(D)	Splitting of centromere	(iv)	Anaphase
			II

Answer: A



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32. In the structure of a human neuron, the nodes of Ranvier are present on

A. Spinal and cranial nerves

- B. Myelinated and medullated neurons
- C. Autonomic and somatic neural system
- D. Both (A) and (B)

Answer: D



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33. If the filiform apparatus has 28 chromosomes, then what will be their number in the nucellus and funicle of the cell, respectively?

- A. 56, 28
- B. 28, 56
- C. 56,56
- D. 84, 56

Answer: C



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34. With reference to different structure of the human brain , which one is an incorrect match

- A. Thalamus: Major co-ordinating centre for sensory and motor signalling.
- B. Association area : Resp onsible for complex functions like intersensory associations , memory and communication .
- C. Medulla oblongata: Controls respiration, cardiovascular refilexes, excitement and urge for eating and drinking.

D. Limbic system : Alongwith the hypothalamus , it is involved in the regulation of sexual behaviour and expression of emotions.

Answer: C



35. Which of the following is a primary metabolite?

- A. Carotenoids
- B. Morphine
- C. Glucose
- D. Vinblastine

Answer: C



36. Match the column I with column II:

	Column I		Column II
(A)	Synovial joint	I	Between radius and ulna
(B)	Cartilaginous joint	Ш	Between the carpals
(C)	Gliding joint	Ш	Between cranial skull bones
(D)	Fibrous joint	ΙV	Between adjacent vertebrae

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

Answer: A



- **37.** How many of the following statements given are incorrect?
- (i) Pusa Gaurav, a variety of Brassica, is disease resistant for bacteria.
- (ii) Jaya and Ratna are varieties of wheat.
- (iii) Method of producing thousands of plants through tissue culture is called micropropagation.
- (iv) pusa Sawani is a variety of Brassica.
- (v) Capacity to generate a whole plant from any cell explants is called totipotency.

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

Answer: C



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38. Which of the following is an age-related bone disorder characterized by decreased bone mass and increased chances of fracture?

B. Osteoporosis C. Muscular dystrophy D. Myasthenia gravis **Answer: B Watch Video Solution** 39. In castor plant: A. Autogamy is possible

A. Osteoarthritis

- B. Geitonogamy is possible
- C. Both are possible
- D. Both are not possible

Answer: B



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40. Which of the following structure of the human brain contains neurosecretory cells to produce hormones?

- A. Adenohypophysis
- B. Neurohypophysis
- C. Hypothalamus
- D. Sellaturcica

Answer: C



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41. The most common type of ovule found in angiospermic plants is

- A. Anatropous
- B. Hemitropous
- C. Campylotropous
- D. Circinotropous

Answer: A



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42. Select the odd out with respect to increased of decreased secretion of hormones .

- A. Diabetes mellitus
- B. Grave's disease
- C. Cretinism
- D. Addison's disease

Answer: B



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43. According to R.H. Whittaker's five - kingdom classification , how many of the following are placed in Kingdom Protista?

Chlorella , Riccia, Pisum , chlamydomonas, cycas, pteridium , Capsella , Gonyaulax , Euglena Amoeba , physarum , Fucus chara .

- A. Seven
- B. Eight
- C. Nine
- D. six

Answer: D



44. Which of the following sets of hormones are lipid-soluble and given a physiological response by changing the gene expression?

A. Estrogen , Thyroxine , cortisol

B. FSH, LH, Testosterone

C. Insulin, Oxytocin, Estrogen

D. Estrogen, Relaxin, Oxytocin

Answer: A



A. ss DNA viruses

B. ds DNA viruses

C. ss RNA viruses

D. ds RNA viruses

Answer: B



46. AboutX...... volume of blood is filtered by the kidney per minute during urine formation to form......Y...... amount of filtrate in the Bowman's capsule per minute .

Select the correct option for X and Y from the following

A.
$$\dfrac{X}{125ml}~\dfrac{Y}{100-1200ml}$$
B. $\dfrac{X}{100-1200ml}~\dfrac{Y}{125ml}$
C. $\dfrac{X}{100-1200ml}~\dfrac{Y}{180 \mathrm{litre}}$

D.

X

Both (B) and (C) are correct 100-1200 ml

Answer: B



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47. Which of the following is the most abundant of all the cells found in the blood of humans?

A. Thrombocytes

- B. Erythrocytes
- C. Platelets
- D. Leucocytes

Answer: B



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48. In which of the following plants is a tricarpellary syncarpous gynoecium found?

A. Onion

- B. Solanum
- C. Pea
- D. Mustard

Answer: A



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49. Which one of the following is correct for the mitral valve of the human heart ?

- A. It guards the opening of right atrium and right ventricle.
- B. It is associated with deoxygenated blood in the right side of heart.
- C. It's closure is associated with the first heart sound (LUB).
- D. Its closure is associated with the second heart sound (DUB) .

Answer: C



50. Which cells of the gastric glands of the stomach secrete Castle's intrinsic factor , essential for the absorption of vit . B_{12} ?

A. Chief cell

B. Parietal cell

C. Oxyntic cell

D. Both (B) and (C)

Answer: D



51. Lateral branches originate from tha basal & underground portion of the main stem, grow horizontally beneath the soil & then come out obliquely upward giving rise to leafy shoots. This condition does not belong to which plant?

A. Banana

B. Pineapple

C. Chrysanthemum

D. Oxalis

Answer: D



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52. Which of the following conditions is found in the alveoli which is favourable for the formation of oxyhaemoglobin?

A. Higher H^+ concentration

B. Low pO_2

C. Low temperature

D. High pCO_2

Answer: C



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53. Read the following statement (I - IV)

- I. The machine that is used to obtain ECG of a patient is called an electrocardiograph.
- II. The volume of blood pumped out by each ventricle per cardiac cycle is called the cardiac

output.

III. The second heart sound is associated with the opening of both semilunar values .

IV. Hypertension is denoted by the ratio of systolic and diastolic pressure in mm of mercury pressure.

How many statement (s) is/ are correct from the above?

A. Two

B. Three

C. Four

D. One

Answer: D



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54. Read the following statement carefully.

A. The diffusion membrane is made up of three major cellular layers.

B . The partial pressure of oxygen and carbon dioxide gases in mmHg are the same for both deoxygenated blood and tissue.

Select correct option about the above statements.

A. Statement A is correct but B is incorrect.

B. Statement B is correct but A is incorrect.

C. Both A and B are correct.

D. Both A and B are incorrect.

Answer: B



55. Which of the following is a living cell which lacks nucleus on maturity?

- A. Complementary cell
- B. Mature sieve tube element
- C. Mature vessel element
- D. Companion cell

Answer: B



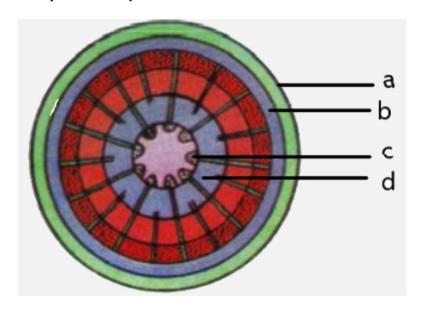
56. Which of the following examples can be considered as homologous organs or examples of homology?

- A. Brain of vertebrates
- B. Heart of vertebrates
- C. forelimb of mammals
- D. All of the above

Answer: D



57. Given figure is a transverse section of dicot stem showing secondary growth in stellar and extra stellar region . Select the correct option for the parts labeled as a, b, c & d are respectively.



A. Phellem , Phellogen , Primary xylem and Secondary xylem

B. Secondary xylem, Secondary phloem,

Phellogen and phellem

C. Primary xylem, Secondary phloem,

Phelleoderm, phellem

D. Vascular cambium , Secondary xylem,
Phellem, Phellogen

Answer: A



58. In the primary structure of a protein , amino acids are linked due to the presence of

- A. Hydrogen bonds
- B. Peptide bonds
- $\mathsf{C.} S S \mathsf{linkages}$
- D. lonic bonds

Answer: B



59. Branching descent and natural selection are the two key concepts of

- A. Darwin's theory of evolution
- B. Lamarck's theory of evolution
- C. Hugo deVries theory of mutation
- D. Wallace theory of evolution

Answer: A



- **60.** Select the option having all correct statements .
- (a) ER divide the intercellular space two distinct compartments.
- (b) The cis and the trans face of the Golgi body are entirely different but interconnected.
- (c) Lysosomes are the single membrane bound vesicular structures formed by the process of packaging in the Golgi body.
- (d) In plant cells, the vacuole can occupy up to90 percent of the volume of the cell .

- A. a,b,c and d
- B. b,c and d only
- C. a,d and d only
- D. b and c only

Answer: A



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61. Identify the correct statement .

A. Arrangement of microtubule in centriole is 9+3.

B. The fimbriae are elongated tubular structures made of a special protein.

C. Structure of chromosomes can be best studied at metaphase .

D. Heterochromatin is genetically more active chromatin.

Answer: C



62. Formation of fruit without involving gametic fusion is called

A. adventitive embryony

B. polyembryony

C. parthenocarpy

D. parthenogenesis

Answer: C



63. How many mitotic division takes place for complete development of female gametophyte in an angiosperm ?

- A. 4
- B. 3
- C. 2
- D. 1

Answer: B



64. DNA-dependent RNA polymerase catalyzes transcription on one strand of the DNA which is called the :

A. template strand.

B. coding strand

C. alpha strand

D. non - template strand .

Answer: A



65. During gamete formation, the enzyme recombinate participates during

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

Answer: C



66. Which enzyme of the TCA cycle or Kreb's cycle is present in the inner mitochondrial membrane?

- A. Pyruvate kinase
- B. Pyruvate dehydrogenase
- C. Succinate dehydrogenase
- D. Succinate thiokinase

Answer: C



67. Which one of the following element is important for nitrogen fixation?

- A. Zn
- B. B
- C. Mo
- D. Cu

Answer: C



68. During the electron transport in mitochondria which of the following changes are observed .

- (1) The pH of the matrix increases.
- (2) ATP synthase synthesizes one molecule of ATP when a pair of the proton is transferred back to the matrix.
- (3) NAD^+ is oxidised.

A. only 1

B. 1 and 2

C. 2 and 3

D. 1,2 and 3

Answer: D



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69. If water potential of a cell is - 30 bar and osmotic potential is - 62 bar then what is the value of the TP developed in the cell.

A. 102 bar

 $\mathrm{B.}-92~\mathrm{bar}$

 $\mathsf{C.}\ 50\ \mathsf{bar}$

D. 32 bar

Answer: D



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70. For fixation of one CO_2 molecule in C_3 plants the energy required in the form of ATP and $NADPH_2$ are

A. 2 ATP and 2 $NADPH_2$

B. 5 ATP and $3NADPH_2$

C. 3 ATP and $2NADPH_2$

D. 18 ATP and $12NADPH_2$

Answer: C



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71. Phytochrome is involved in

A. phototropism .

B. photorespiration.

C. photoperidism.

D. geotropism.

Answer: C



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72. Select the option which is not correctly matched for mode of reproduction and its example.

A. Binary fission - Sargassum

- B. Conidia Penicillium
- C. Offset Water hyacinth
- D. Rhizome Banana

Answer: A



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73. Most of the biological activities of proteins are due to :

A. Primary configuration

- B. Secondary configuration
- C. Tertiary configuration
- D. More than one option is correct

Answer: C



- **74.** Holoenzyme is composed of :
 - A. Non protein and apoenzyme
 - B. protein and apoenzyme

- C. Enyme, protein and coenzyme
- D. Enzyme, non protein and coenzyme

Answer: B



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75. Select the incorrect statement.

A. GEAC is genetic engineering approval committee.

- B. PCR and ELISA are techniques that serve the purpose of easily diagnosis.
- C. rDNA therapeutic induce unwanted immunological responses.
- D. Transgenic mice are being used to test the safety of the polio vaccine.

Answer: C



76. The toxin produced by Bacillus thurigiensis gets activated in

- A. acidic pH of the stomach.
- B. high temperature
- C. alkaline pH of the gut.
- D. mechanical action in the insect gut.

Answer: C



77. BOD values of different samples of water are given. Sample A BOD = 5, Sample B BOD = 12, Sample C BOD = 2, Sample D BOD = 7 Which of the above - given sample will have the least number of Daphnia? A. A B.B C.C D. D Answer: B

78. The blood group of the father is B and that of a daughter is AB. The genotype of the mother be:

A.
$$I^A I^A$$
 or $I^0 I^0$

B.
$$I^A I^B$$
 only

C.
$$I^A I^A$$
 or $I^A I^B$

D.
$$I^A I^0$$
 only

Answer: C

79. In the human genome project, the method that is involved in identifying all the genes that are expressed as RNA is referred to as

- A. sequence annotation.
- B. expressed sequence tags.
- C. bioinformatics.
- D. DNA fingerprinting

Answer: B

- **80.** Which of the following seed characters of Pisum sativum were studied by Mendel in his hybrization experiments?
- 1. Seed shape
- 2. Seed weight
- 3. Seed coat colour
- 4. Seed starch grain size
- 5. Seed number

A. 1 and 3

- B. 1,2 and 3
- C. 2,4 and 5
- D. 1,3 and 4

Answer: A



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81. Which one of the following conditions in human is correctly matched with is chromosomal abnormality?

A. Sickle cell anemia - X linked

B. Down's syndrome - 44 autosomes + XO

C. Kline falter's syndrome - 44 autosomes +

XXY

D. Colour blindness - Y linked

Answer: C



82. When a single gene expresses more than one effect the, phenomenon is called

A. multiple allelism

B. two gene inheritance.

C. pleiotropy.

D. polygenes .

Answer: C



83. At a particular locus, frequency of 'A' allele is 0.6 and that of 'a' is 0.4. What would be the frequency of heterozygotes in a random mating population at equlibrium -

- A. 0.36
- B. 0.16
- C. 0.24
- D. 0.48

Answer: D



84. Lambda bacteriophage hasbase pairs in genetic material .

- A. 48205
- B. 5386
- C. 48502
- D. 45802

Answer: C



85. An organism used as a biofertilizer for raising soyabean crop is

- A. Azotobacter
- B. Azospirillum
- C. Rhizobium
- D. Nastoc

Answer: C



86. The process of development of pollen mother cell into a mature pollen grain includes.

- A. Grain genesis
- B. Microsporgenesis
- C. Pollen genesis
- D. Sporogenesis

Answer: B



87. Montreal protocol was signed in

A. 1987 and became effective in 1989 to control the emission of ozone depletion substances.

B. 1989 to reduce emission of green house of gases.

C. 1997 to mitigate global climate changes.

D. 1992 to conserve biodiversity.

Answer: A

88. In a cross between AABB $\, imes\,$ aabb, the ratio of F_2 genotype between AABB, AaBB,Aabb and aabb would be

A. 9:3:3:1

B. 2:1:1:2

C. 1: 2: 2: 1

D. 7:5:3:1

Answer: C

89. Which one of the following is an example of

A. Botanical garden

In - situ conservation?

B. Seed bank

C. Sacred groves

D. Zoological park

Answer: C



90. Select the correct statement about human evolution.

- A. The first human like being the hominid was Home erectus.
- B. The Neanderthal man was with a brain size almost equal to that of modern man.
- C. During ice age between 1,00,000 40,000 years ago Homo sapiens arose.

D. All of the above

Answer: B

