



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 104

Biology

1. For the formation of 40 embryos, how many meiotic divisions, in all are required?

A. 40

B. 50

C. 60

D. 80

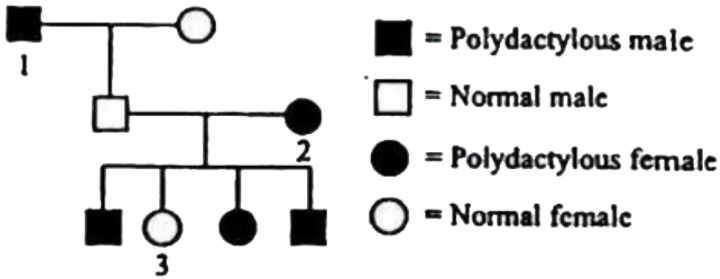
Answer: A



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2. In humans, polydactyly (i.e. presence of extra fingers and toes) is determined by a dominant autosomal allele (P) and the normal condition is determined by a recessive allele(p). Find out the possible genotypes of family

members 1,2 and 3 in the given pedigree.



- A. 1 2 3
 PP *Pp* *pp*
- B. 1 2 3
 PP *PP* *pp*
- C. 1 2 3
 Pp *PP* *pp*
- D. 1 2 3
 Pp *Pp* *pp*

Answer: D

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3. Gemmae are means of vegetative reproduction in

A. Colocasia

B. Spirogyra

C. Marsilea

D. Marchantia

Answer: D



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4. The hilum represents the junction between

A. the two integuments

B. ovule and funicle

C. micropyle and chalaza

D. ovule and placenta

Answer: B



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5. When a heterozygous pea plant with yellow round seeds is crossed with a homozygous pea plant with yellow round seeds, the genotype not obtained is

A. $YyRr$

B. $YyRR$

C. $YYrr$

D. $YYRR$

Answer: C



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6. The association of two subunits of the ribosome in translation is governed by the concentration of

A. Mg^{2+}

B. Ca^{2+}

C. ATP

D. H^+

Answer: A



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7. Which of the following shows the correct sequence of steps involved in breeding a new genetic variety of a crop

(i) Selection and testing of superior recombinants (ii) Germplasm collection (iii) Cross hybridisation among the selected parents (iv) Evaluation and selection (v) Testing, releases and commercialisation of new cultivars

A. b,d,c,a and e

B. a,b,d,c and e

C. c,d,a,b and e

D. b,c,a,d and e

Answer: A

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8. Azospirillum is a

- A. Free-living , nitrogen - fixing eukaryotic microbe
- B. symbiotic, nitrogen-fixing eukaryotic microbe
- C. free-living , nitrogen -fixing prokaryotic microbe
- D. symbiotic, nitrogen - fixing prokaryotic microbe

Answer: C

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9. Mammals from colder climates generally have shorter ears and limbs to minimise heat loss. This is

- A. Allen's Rule
- B. Tillman's rule
- C. Gauss Principle
- D. Lindeman's rule

Answer: A



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10. The circulation of the essential nutrients between living and non-living components of the biosphere is termed as :

- A. Biogeographic cycle
- B. Cycling of minerals
- C. Biological cycle
- D. Biogeochemical cycle

Answer: D



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11. Grasshopper is an example of XO type of sex determination in which the males have_____

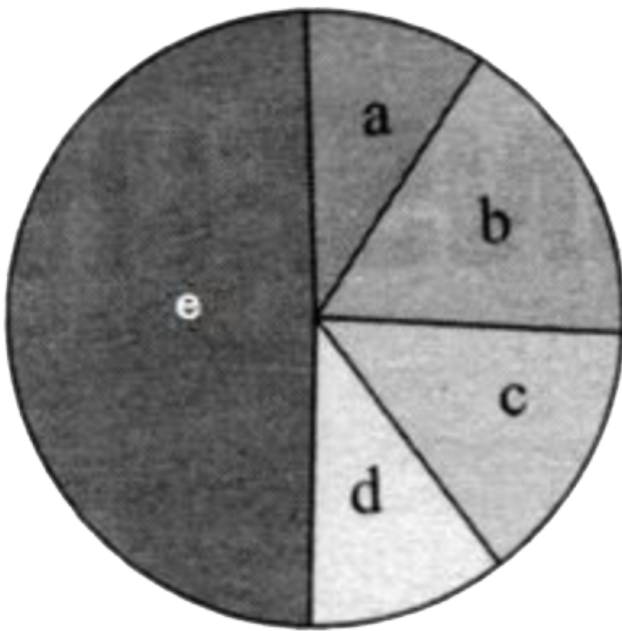
- A. one X chromosome
- B. One Y chromosome
- C. two Y chromosomes
- D. no X-chromosome

Answer: A



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12. Recognise the figure and find out the CORRECT matching.



A. a - fishes, b - amphibians, e - reptiles, d - birds, c - mammals

B. e - fishes, d - amphibians, b - reptiles, c - bird, a - mammals

C. e - fishes, d - amphibians, c - reptiles, b - birds, a - mammals

D. b - fishes, a - amphibians , d - reptiles , e - birds , c -
mammals

Answer: C



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13. Clouds and gases reflect about _____ of the incoming solar radiation.

A. one-third

B. half

C. one-fourth

D. two - third

Answer: C



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14. Embryonal tissue of angiosperms contains :

- A. Chloroplasts
- B. Chromatophores
- C. Chromoplasts
- D. Leucoplasts

Answer: D



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15. Match column-I with column-II and select the correct option from the codes given below :

	Column-I		Column-II
(1)	Normal woman	(i)	14
(2)	Klinefelter's syndrome	(ii)	45
(3)	Turner's syndrome	(iii)	46
(4)	<i>Pisum sativum</i>	(iv)	47

A. 1 – (iii), 2 – (iv), 3 – (ii), 4 – (i)

B. 1 – (iii), 2 – (ii), 3 – (iv), 4 – (i)

C. 1 – (i), 2 – (iv), 3 – (ii), 4 – (iii)

D. 1 – (i), 2 – (ii), 3 – (iv), 4 – (iii)

Answer: A



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16. A stop codon will always have a

- A. uracil nucleotide at its 5' end
- B. adenine nucleotide at its 5' end
- C. uracil nucleotide at its 3' end
- D. adenine nucleotide at its 3' end

Answer: A



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17. Which of these is not obtained from a fungus?

- A. cyclosporin A

B. statin

C. antibiotic penicillin

D. holes in Swiss cheese

Answer: D



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18. A population has more young individuals compared to the older individuals. What would be the status of the population after some years?

A. It will decline

B. it will stabilise

C. It will increase

D. it will first decline and then stabilise

Answer: C



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19. Consider the following statements and select the correct option stating which ones are true (T) and which ones are false (F).

(i) Pyramid of biomass is upright in the forest ecosystem and inverted in the grassland ecosystem.

(ii) Pyramid of numbers is inverted in grassland and upright in aquatic ecosystem.

Pyramid of energy depicts the rate of energy flow or

productivity at successive trophic levels .

(iv) Ecological pyramids have no place for detritivores and decomposers though they play an important role in an ecosystem.

A. *i* *ii* *iii* *iv*
F *F* *T* *T*

B. *i* *ii* *iii* *iv*
T *F* *T* *T*

C. *i* *ii* *iii* *iv*
F *T* *F* *F*

D. *i* *ii* *iii* *iv*
T *F* *F* *T*

Answer: A



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20. For frugivorous birds and mammals in the tropical forests of different continents the slope is found to be

A. 0.015

B. 0.15

C. 1.05

D. 1.15

Answer: D



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21. Haryana Kisan Welfare Club was created by

A. Ramesh Chandra Dagar

B. Ahmed Khan

C. Amrita Devi Bishnoi

D. Govt. of India

Answer: A



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22. Ovary to fruit formation in absence of fertilization refers to:

A. Parthenocarpy

B. Apogamy

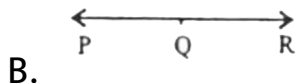
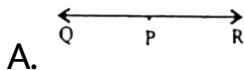
C. Apospory

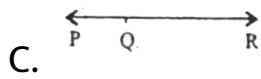
D. Parthenogenesis

Answer: A

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23. If map distance between genes P and Q is 4 units, between P and R is 11 units, and between Q and R is 7 units, the order of genes on the linkage map can be traced as follows





Answer: C



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24. Match column I with column II and select the **CORRECT** option.

	Column I	Column II
(i)	Meselson and Stahl	1. Transduction
(ii)	Jacob and Monod	2. X-ray diffraction data of DNA
(iii)	Hershey and Chase	3. Semi-conservative DNA replication
(iv)	Wilkins and Franklin	4. One gene one enzyme hypothesis
(v)	Beadle and Tatum	5. Operon system

A. (i) – 4, (ii) – 1, (iii) – 3, (iv) – 5, (v) – 2

B. (i) – 3, (ii) – 5, (iii) – 1, (iv) – 2, (v) – 4

C. (i) – 1, (ii) – 5, (iii) – 2, (iv) – 3, (v) – 4

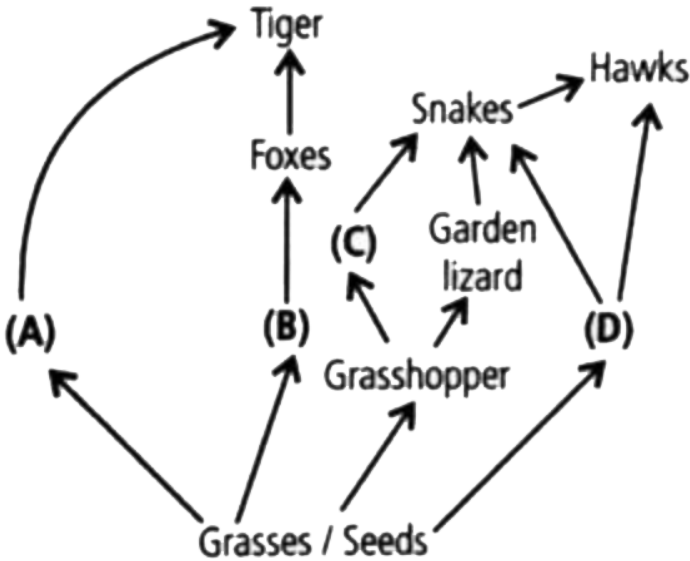
D. (i) – 2, (ii) – 1, (iii) – 3, (iv) – 4, (v) – 5

Answer: B



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25. Identify organisms A,B,C and D in the given food web



- A. *A* *B* *C* *D*
 Squirrel Dog Tortoise Crow
- B. *A* *B* *C* *D*
 Rat Cat Bat Pigeon
- C. *A* *B* *C* *D*
 Deer Squirrel Rat Crow
- D. *A* *B* *C* *D*
 Deer Rabbit Frog Rat

Answer: D



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26. Which of the following is not a cause for loss of biodiversity ?

- A. Destruction of habitat
- B. Invasion by alien species
- C. Keeping animas in zoological parks
- D. over-exploitation of natural resources

Answer: C



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27. Early development of embryo in dicots and monocots is similar upto:

- A. Diad stage
- B. Quadrat stage
- C. Globular stage
- D. Octant stage

Answer: C



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28. A human male how is hemizygous for a gene gives rise to

- A. brown eyes
- B. phenylketonuria
- C. colour-blindness
- D. cystic fibrosis

Answer: C



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29. Cloning vector contains

- A. DNA
- B. RNA
- C. DNA and RNA

D. DNA and Proteins

Answer: A



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30. Read the following statement and choose the CORRECT option.

A. Blood cells secrete fibers of structural protein called collagen

B. Basophils are non-phagocytic

C. Osteocytes are present in fluid filled cavity called Lamellae

D. Striated muscle fibers are branched

Answer: B



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31. Match the columns :

	Column I		Column II
(a)	Hyaluronidase	(i)	Acrosomal reaction
(b)	Ovary	(ii)	Organs and organ systems are formed
(c)	First trimester	(iii)	Relaxin
(d)	Second trimester	(iv)	Development of limbs & digits
(e)	Second month of pregnancy	(v)	Body covered with fine hair

A.

(a) – (v), (b) – (ii), (c) – (iv), (d) – (i), (e) – (iii)

B.

(a) – (i), (b) – (iii), (c) – (ii), (d) – (v), (e) – (iv)

C.

(a) – (iii), (b) – (ii), (c) – (v), (d) – (iv), (e) – (i)

D.

(a) – (i), (b) – (ii), (c) – (v), (d) – (iii), (e) – (iv)

Answer: B



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32. Widespread infection of which of the following disease can't be controlled by the use of larvivorous fish like Gambusia?

A. Malaria

B. Chikungunya

C. Ringworm

D. Dengue

Answer: C



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33. An acoelomate animal with bilateral symmetry is

A. Jelly Fish

B. Liver Fluke

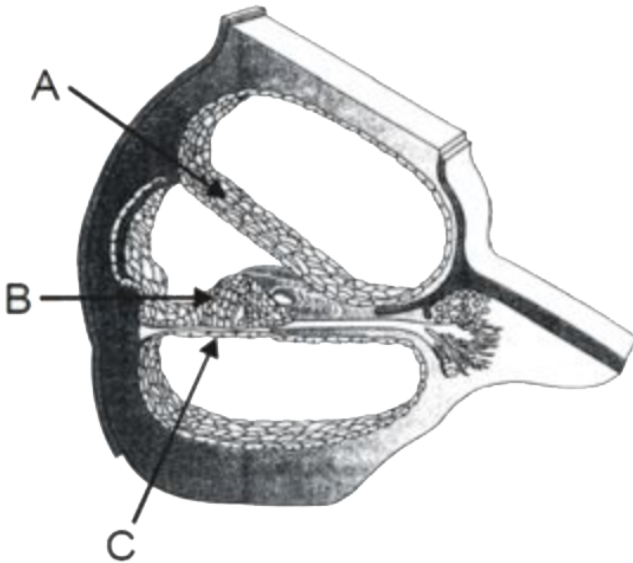
C. Pleurobrachia

D. Ancylostoma

Answer: B

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34. In the diagram identify A, B and C.



- A. A - Reissner's membrane , B - Organ of corti , C -
Basilar membrane
- B. A - Reissner's membrane , B - Tectorial membrane , C
- Basilar membrane
- C. A - Scala vestibuli , B - Scala media , C - Scala tympani
- D. A - Tectorial membrane , B - Reissner's membrane , C
- Basilar membrane

Answer: A



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35. Parathormone deficiency produces muscle cramps or tetany as a result of :

- A. Lowered blood Ca^{2+}
- B. Enhanced blood Na^+
- C. Enhanced blood glucose
- D. Enhanced blood Ca^{2+}

Answer: A

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36. Which of these is a striated muscle but not voluntary ?

A. Abdominal muscle

B. Biceps muscles

C. Wrist muscles

D. Cardiac muscles

Answer: D



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37. In ability to conceive or produce children ever after _____ of unprotected sexual cohabitation is called infertility.

A. one month

B. six months

C. one year

D. two years

Answer: D



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38. According to the theory of special creation, earth is supposed to be about _____ years old.

A. 3.5 billion

B. 4000

C. 4.5 billion

D. 2000 million

Answer: B



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39. Rosie is

- A. transgenic cow with a human gene
- B. transgenic goat with a human gene
- C. transgenic cow with a pig gene
- D. transgenic goat with a pig gene.

Answer: A



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40. Match the two column and select the CORRECT among option given

	Column I		Column II
(A)	Biomacromolecules of food	(i)	Alimentary canal and associated glands
(B)	Human digestive system	(ii)	Embedded in jawbones.
(C)	Stomach	(iii)	The outer wall of visceral organs
(D)	Thecodont	(iv)	Converted into simple substances
(E)	Serosa	(v)	J-shaped bag like structure

A. A - ii, B - i, C - v, D - iii, E - iv

B. A - iv, B - i, C - v, D - ii, E - iii

C. A - i, B - ii, C - iii, D - iv, E - v

D. A - i, B - iii, C - ii, D - iv, E - v

Answer: B



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41. A patient's urine shows the presence of proteins. This could be due to error in :

- A. Ultrafiltration
- B. Selective reabsorption
- C. Tubular secretion
- D. Micturition

Answer: A



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42. Catalytic properties are found in :

A. Proteins & Lipids

B. RNA & DNA

C. RNA & Proteins

D. DNA & Proteins

Answer: C



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43. Hamburger shift is also called :

A. Hydrogen shift

B. Bicarbonate shift

C. Chloride shift

D. Sodium shift

Answer: C



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44. Match the terms given under Column 'A' with their functions given under Column 'B' and select the answer

from the options given below :

	Column A		Column B
(A)	Lymphatic System	(i)	Carries oxygenated blood
(B)	Pulmonary vein	(ii)	Immune Response
(C)	Thrombocytes	(iii)	To drain back the tissue fluid to the circulatory system
(D)	Lymphocytes	(iv)	Coagulation of blood

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

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

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

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

Answer: B



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45. Match the following with reference to cockroach and choose the CORRECT option.

	Column I		Column II
P.	Anal style	(i)	10th tergite
Q.	Testis	(ii)	2 nd - 6th segments
R.	Anal cerci	(iii)	9th sternite
S.	Ovary	(iv)	4th - 6th

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

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

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

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

Answer: B



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46. Spermatogonia develop through :

A. Amitosis

B. Mitosis

C. Meiosis I

D. Meiosis II

Answer: B



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47. An antibody present in colostrum is

A. IgG

B. IgA

C. IgM

D. IgD

Answer: B



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48. Which of the following animals belongs to phylum Coelenterata?

A. Sea horse

B. Sea hare

C. Sea pen

D. Sea cucumber

Answer: C



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49. Injury to the medulla oblongata in humans is not likely to affect:

- A. Gastric secretion
- B. Cardiac movements
- C. Unconditioned reflex
- D. Controlled respiration

Answer: C



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50. Impairment of adrenal cortex causes decrease concentration of _____ in blood.

A. sodium

B. calcium

C. ACTH

D. water

Answer: A



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51. From the list of proteins given below, select the correct ones for muscular tissue.

A. Myosin , B. Myoglobin, C. Elastin, D. Ossein , E. Actin

A. A,B,C and E

B. A,D and E

C. A, B and E

D. A,B,C,D and E

Answer: C



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52. Spermicidal creams, jellies and foams are usually used along with ___ to increase their contraceptive efficiency.

- A. Copper T
- B. Diaphragm
- C. Norplant
- D. Hormonal pills

Answer: B



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53. Find the CORRECT match.

A.

Human fossil	Cranial capacity	Characteristic
<i>Homo habilis</i>	650-800 cc	They ate meat

B.

Human fossil	Cranial capacity	Characteristic
<i>Homo erectus</i>	900 cc	Did not eat meat

C.

Human fossil	Cranial capacity	Characteristic
Neanderthal	1400 cc	Buried their dead

D.

Human fossil	Cranial capacity	Characteristic
<i>Australopithecus</i>	800 cc	Ate meat

Answer: C



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54. Which of these restriction endonucleases are used in rDNA technology ?

A. Type I

B. Type II

C. Type III

D. All of these

Answer: B



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55. The medullary interstitial fluid of a patient is highly concentrated than a normal person. As compared to a normal person. As compared to a normal individual , the patient's urine will be

A. concentrated

B. dilute

C. isotonic

D. both (B) and (C)

Answer: A



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56. When we homogenise any tissue in an acid the acid soluble pool represents

A. Cytoplasm

B. Macromolecules

C. Nucleus

D. Mitochondria

Answer: A



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57. Which of the following respiratory volume has the volume of 1100 mL to 1200 mL?

- A. Tidal volume
- B. Inspiratory Reserve Volume
- C. Expiratory Reserve Volume
- D. Residual volume

Answer: D



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58. The correct arrangement of events in the cardiac cycle according to their duration is :

A. Atrial systole - Ventricular systole - Ventricular diastole - Atrial diastole

B. Atrial systole - Ventricular systole - Atrial diastole - Ventricular diastole

C. Atrial systole - Atrial diastole - Ventricular systole - Ventricular diastole

D. Ventricular systole - Atrial systole - Ventricular diastole - Atrial diastole

Answer: A





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59. The non-cellular layer of the mature ovum is

- A. Corona radiata
- B. Zona pellucida
- C. Theca interna
- D. Granulosa

Answer: B



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60. Which of the following is a monogenetic parasite (has only host in its life cycle) ?

A. Wuchereria bancrofti

B. Ascaris

C. Plasmodium vivax

D. Both (A) and (B)

Answer: B

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61. Match the hormones listed under column I with their functions listed under column II. Choose the answer

which gives the CORRECT combination of the alphabets of the two columns.

Column I	Column II
A . Oxytocin	p. Stimulates ovulation
B. Prolactin	q. Implantation and maintenance of pregnancy
C. Luteinizing hormone	r. Lactation after childbirth
D. Progesterone	s. Release of milk from the mammary gland
	t. Reabsorption of water by nephrons

A. A = s, B = q, C = r, D = t

B. A = t, B = r, C = p, D = s

C. A = s, B = r, C = p, D = q

D. A = t, B = p, C = s, D = r

Answer: C



62. The CORRECT Sequence of ancestors of mammals starting from the oldest is :

A. Sauropsida → Pelycosaurs → Therapsida

B. Synapsids → Pelycosaurs → Therapsida

C. Synapsids → Therapsida → Pelycosaurs

D. Pelycosaurs → Therapsida → Synapsids

Answer: B

63. Arrange the steps of PCR in decreasing order of temperature.

- A. Denaturation, Polymerisation, Annealing
- B. Polymerisation, Denaturation, Annealing
- C. Polymerisation, Annealing, Denaturation
- D. Annealing, Polymerisation, Denaturation

Answer: D

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64. After which of the following treatments (I - III) would an enzyme still be expected to have activity?

I. Protease treatment.

II. Heating almost to the point of denaturation.

III. Freezing and then thawing once only.

A. I only

B. III only

C. I and II only

D. II and III only

Answer: B



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65. Genetically engineered human insulin is synthesized with the help of

A. Rhizopus

B. Guinea pig

C. E.coli

D. Mice

Answer: C



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66. National Botanical Research Institute is located in

A. West Bengal

B. Uttar Pradesh

C. Maharashtra

D. Delhi

Answer: B



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67. Read the following statements regarding euglenoids and select the incorrect ones.

- (i) These are mostly freshwater organisms found in stagnant water.
- (ii) Their body is covered by a protein rich layer called pellicle which makes their body flexible.
- (iii) They are photosynthetic in the presence of sunlight but become heterotrophs in the absence of sunlight.
- (iv) They usually possess two flagella, one long and one

short.

(v) Euglenoids are multicellular ciliate protists

A. (i) and (v)

B. (iv) and (v)

C. (iii) only

D. (v) only

Answer: D



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68. Water is not required for the act of fertilization in:

A. Cryptogams

B. Bryophytes

C. Spermatophytes

D. Pteridophytes

Answer: C



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69. Which of these scientists is not correctly matched with their contributions?

A. Anton Von Leeuwenhoek first saw and described a live cell.

B. Robert Brown discovered the nucleus

C. Matthias Schleiden studied different types of animal cells and reported that cells has a thin outer layer which is today known as the 'plasma membrane'

D. Rudolf Virchow first explained that cells divided and new cells are formed from pre-existing cells

Answer: C



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70. A cell has 24 chromosomes at the end of metaphase in mitosis. What will be the number of chromosomes and chromatids at each pole at the beginning of telophase?

- A. 12 chromosomes, 24 chromatids
- B. 24 chromosomes, 12 chromatids
- C. 12 chromosomes, 12 chromatids
- D. 24 chromosomes, 24 chromatids

Answer: D

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71. Select the wrong pair.

- A. Banyan : Adventitious roots for support
- B. Bougainvillea : Thorns from axillary buds
- C. Alstonia : Whorled phyllotaxy

D. Datura : Zygomorphic flower

Answer: D



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72. In a dicot leaf, palisade tissue is generally present adjacent to the epidermis

- A. having stomata
- B. not having stomata
- C. having suberin
- D. having lignin

Answer: B



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73. Root pressure is maximum when

- A. transpiration is high and absorption is low
- B. transpiration is very low and absorption is high
- C. both are very high
- D. both are very low

Answer: B



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74. Sulphur is present in

- A. Cysteine and Proline
- B. Methionine and Proline
- C. Methionin and Cysteine
- D. Methionine and Leucine

Answer: C



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75. A photosynthetic organism which does not release oxygen is

- A. brown alga
- B. green bacterium

C. green alga

D. phycobiont component of lichen

Answer: B



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76. The first 5C dicarboxylic acid in Krebs' cycle which is used in nitrogen metabolism is

A. succinate

B. oxalosuccinate

C. α -ketoglutaric acid

D. succinyl coenzyme A

Answer: C



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77. Plants which require the exposure to light for a period exceeding a well defined critical duration for flowering are called

- A. Short day plants
- B. Long - day plants
- C. Day - neutral plants
- D. Both (A) and (B)

Answer: B



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78. Dikaryon condition is not seen in :

A. Mucor

B. Agricus

C. Ustilago

D. Puccinia

Answer: A



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79. Match the columns I and II and choose the correct combination from the option given

Column I (Class)	Column II (Stored food example)
(a) Chlorophyceae	(i) Floridean starch
(b) Phaeophyceae	(ii) Starch
(c) Rhodophyceae	(iii) Laminarin and mannitol

A. a - i, b - ii, c - iii

B. a - ii, b - iii, c = i

C. a - i, b - iii, c - ii

D. a - ii, b - i, c - iii

Answer: B

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80. Gas vacuoles are found in

- A. Cyanobacteria
- B. Rhizobium
- C. Green photosynthetic bacteria
- D. More than one option is correct

Answer: D



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81. Pick up the CORRECT statement from the following :

- a. The spindle formation is anastral in plant cell while amphiastral in an animal cell.

b. DNA replicates once in mitosis and twice in meiosis.

c. Equational division, as well as reduction division, occurs in both sexually and asexually reproducing organisms.

A. a only

B. b only

C. a and b only

D. a and c only

Answer: A



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82. Which of these structures is seen in lily?

A. Epipetalous stamens

B. Epiphyllous stamens

C. Polycarpellary apocarpous gynoecium

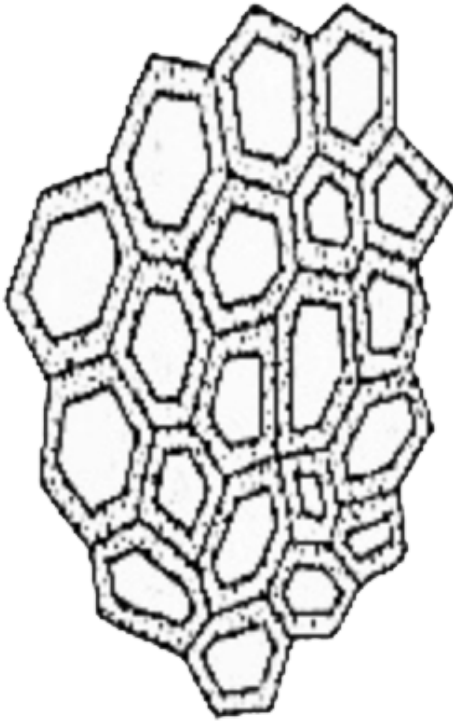
D. Pulvinus

Answer: B



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83. The following figure corresponds to :



A. Meristem

B. Parenchyma

C. Sclerenchyma

D. Collenchyma

Answer: C



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84. During non- cyclic photophosphorylation ATP molecules are produced through electron flow

- A. from H_2O to PS II
- B. from PS II to PD I.
- C. from PS I to NADP
- D. from PS I to ferredoxin

Answer: B



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85. Match Column - I with Column - II and select the CORRECT option from the codes given below

	Column - I		Column - II
A.	FADH ₂	(i)	Phosphoenolpyruvate
B.	Electron acceptor	(ii)	Fumarate
C.	Pyruvate dehydrogenase	(iii)	Cytochrome C
D.	Substrate-level phosphorylation	(iv)	Acetyl CoA

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

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

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

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

Answer: A

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86. The following figure shows :



Juvenile



Adult

- A. Heterophylly in larkspur
- B. Heterophylly in buttercup

C. Heterophylly in collon and coriander

D. Heterophylly in cotton, coriander and larkspur

Answer: A



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87. Read the following statements and select the option which CORRECTLY identifies the INCORRECT ones.

(i) Potato spindle tuber disease is caused by viroids .

(ii) Viruses cause diseases like common cold, herpes and AIDS.

(iii) Mycoplasma is prokaryotic organisms that completely lack a cell wall.

(iv) In Ascomycetes, the asexual spores are conidia

produced endogenously on the special mycelium called conidiophores

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

Answer: D



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88. Intracellular space is divided into two distinct compartments, i.e., liminal and extraluminal in :

A. Nucleus

B. Endoplasmic reticulum

C. Golgi bodies

D. Lysosomes

Answer: B



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89. The mustard flower has :

A. 4 sepals, 4 petals and 4 stamens

B. 6 sepals, 6 petals and 4 stamens

C. 4 sepals, 4 petals and 6 stamens

D. 2 sepals, 4 petals and 6 stamens

Answer: C



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90. Which of the following combinations of characters is true for slime moulds?

A. Parasitic, plasmodium without walls, spores dispersed by air currents

B. Saprophytic, plasmodium with walls, spores dispersed by water

C. parasitic, plasmodium without walls, spores
dispersed by water

D. Saprophytic, plasmodium without walls, spores
dispersed by air currents

Answer: D



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