BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 99

Biology

1. In Marchantia , gametophyte starts from spore and ends in

A. zygote

B. spore

C. capsule

D. prothallus

Answer: A

2. Ribosomes are classified according to their

A. size

B. weight

C. volume

D. sedimentation rate

Answer: D

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3. Select the INCORRECT statement.

A. Most plant viruses are RNA viruses.

B. Bacteriophages possess dsDNA.

C. Immunodeficiency virus is a retrovirus.

D. Prisons possess only nucleoid and no proteins.

Answer: D

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4. Which of the following is not a significant aspect of mitosis ?

A. It introduce variations

B. It replaces old or worn out cells

C. It helps in healing wounds

D. It maintains genetic stability

Answer: A

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5. Thorn is a stem structure because it is

A. develops from trunk

B. develops forms axillary bud

C. grows from external surface

D. is pointed

Answer: B

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6. Lysigenous cavity in monocot stem vascular bundles develops by the dissolution of

A. protoxylem

B. metaxylem

C. phloem

D. ground tissue

Answer: A

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7. Cell A with OP = 6 and WP = 5 is surrounded by the cells with OP = 3 and TP = 2 , what will be the direction of water movement ?

A. From A to other cells

B. From other cells to A

C. No movement

D. Water will move up

Answer: C

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8. During N_2 fixation in root nodule to form NH_3 molecule. How many ATP are consumed ?

A. 16

B. 4

C. 2

D. 8

Answer: D

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9. How many molecules of water are needed by a green plant to reduce 6 molecules of CO_2 ?

A. 6

B. 12

C. 24

D. One only

Answer: B

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10. The F_1 and F_0 headpiece is a .....and .....

A. integral membrane steroidal complex and peripheral membrane steroidal complex.

B. integral membrane lipid complex and peripheral membrane lipid complex.

C. integral membrane protein complex and peripheral membrane protein complex.

D. peripheral membrane protein complex and integral membrane protein complex.

Answer: D

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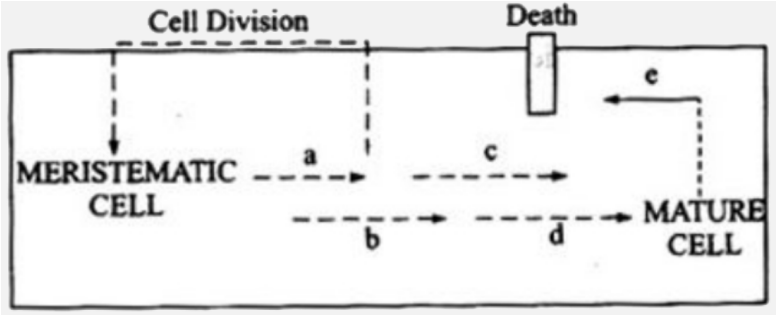
11. Recognize the figure and find out the CORRECT labeling.



A. a - elongation, c- differentiation, b - plasmatic growth, d - senescence , e - maturation

B. b - elongation, e- differentiation, a - plasmatic growth, c - senescence , d - maturation

C. a - elongation, d- differentiation, b - plasmatic growth, e - senescence , c - maturation

D. b - elongation, c - differentiation, a - plasmatic growth, e - senescence , a - maturation

Answer: D

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12. A homonym is

A. Two or more names for the same taxon

B. Species name repeats the generic name

C. Identical name of two different species

D. Name given to a taxon in local language

Answer: C

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13. Match Column - I with Column - II and select the CORRECT option form the codes given below

	Column – I		Column - II
(P)	Edible delicacies	(i)	Penicillium, Streptomyces
(Q)	Experimental genetics	(ii)	*Neurospora crassa*
(R)	Source of antibiotics	(iii)	Puccinia, Ustilago
(S)	Rust and smut diseases	(iv)	Morels and truffles

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

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

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

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

Answer: C

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14. In Fucus, the male and female gametes are

A. motile

B. non - motile

C. motile and motile respectively

D. non - motile and motile respectively

Answer: C

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15. One important component of cytoskeleton is

A. flagellin

B. chitin

C. cartilage

D. microtubules

Answer: D

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16. Microtubules from opposite poles of spindle get attached to kinetochores of sister chromatids during

A. anaphase II

B. metaphase II

C. metaphase I

D. prophase II

Answer: B

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17. Floral diagram does not show

A. cohesion and adhesion

B. aestivation

C. colour and shape of petals

D. all of these

Answer: C

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18. Which out of the following is a MISMATCHED pair ?

A. Hypostomatic - Stomata present more on lower epidermis than on upper epidermis

B. Epistomatic - Stomata present more on upper epidermis than on lower epidermis

C. Amphistomatic - Stomata non - functional

D. Sunken stomata - Stomata deep seated below the surface

Answer: C

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19. One of the earliest experiments on photosynthesis was done in 1770 by Joseph Priestley.He demonstrated that

A. sunlight is the energy source

B. water is required

C. plants and animals "restore" the air for each other

D. chlorophyll captures light energy

Answer: C

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20. Match Column - I with Column - II and select the CORRECT option form the codes given below

	Column – I		Column – II
A.	Fats made of three fatty-acid chains attached to the glycerol	(i)	Glycogen
B.	Glycolysis metabolite made from glycerol	(ii)	Glyceraldehyde
C.	The storage form of glucose	(iii)	Triglycerides
D.	Result of running reactions of glycolysis in reverse	(iv)	Glucose

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

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

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

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

Answer: B

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21. If the growing plant is decapitated, then

A. axillary buds are inactivated

B. axillary buds are activated

C. leaves become yellow and have a

D. growth stops

Answer: B

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22. The given statements describe a group of organisms.

(i) Instead of a cell wall they have a protein rich pellicible making their body flexible.

(ii) They have 2 flagella, a short and a long one.

(iii) They show mixotrophic nutrition

(iv) They are connecting link between plants and animals.

which of the following groups is referred to here?

A. Dinoflagellates

B. Slime moulds

C. Desmids and diatoms

D. Euglenoids

Answer: D

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23. An animal cell was grown in a culture medium containing P^{32} nucleotides, the parts from which DNA is built. Later examination of the cell showed the radioactivity to be concentrated in the

A. Golgi body

B. nucleus

C. rough ER

D. smooth ER

Answer: B

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24. Epicalyx is a characteristic feature of

A. hibiscus

B. petunia

C. rose

D. all of these

Answer: A

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25. Red tides in warm coastal water develop due to the abundance of

A. Dinoflagellates

B. euglenoids

C. diatoms and desmids

D. slime moulds

Answer: A

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26. Which of the following is CORRECTLY matched ?

A. Agrobacterium tumefaciens - tumor

B. Thermus aquaticus - Bt - gene

C. pBR 322 - enzyme

D. Ligase - molecular scissor

Answer: A

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27. The CORRECT statement about the digestive system of cockroach are ,

I. The entire foregut of the cockroach is lined by the cuticle.

II. The midgut is broader than the hindgut of the cockroach.

III. The proventriculus of the cockroach has teeth for grinding food particles.

IV. The digestive juice is secreted by 100 - 150 hepatic caeca present at the junction of foregut and midgut.

A. I and III

B. II and IV

C. I and II

D. III and IV

Answer: A

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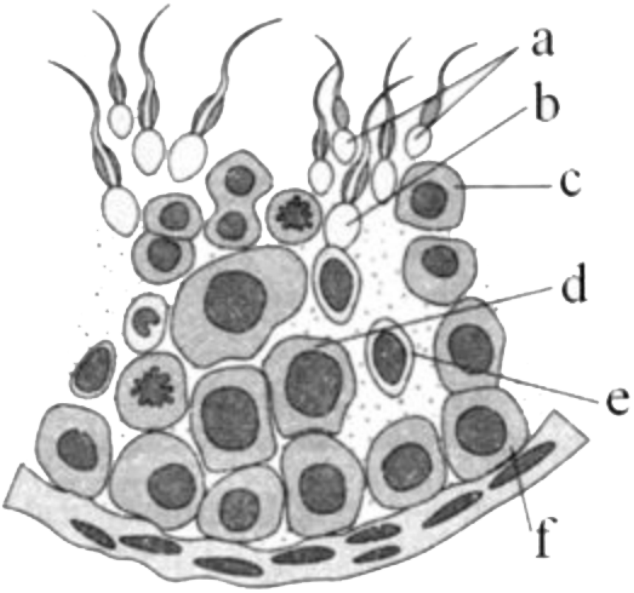
28. Recognize the figure and find out the CORRECT labeling.



A. a -spermatozoa, b - spermatid, c - primary spermatocyte , d - secondary

spermatocyte , e - spermatogonia , f - sertoli cell

B. a -spermatozoa, b - spermatid, c - secondary spermatocyte , d - primary spermatocyte - Sertoli cell , f - spermatogonia

C. a -spermatozoa, b - spermatid, c - primary spermatocyte , d - secondary spermatocyte , e - spermatogonia , f - sertoli cell

D. a -spermatozoa, b - spermatid, c - secondary spermatocyte , d - primary spermatocyte - Sertoli cell , f - spermatogonia

Answer: B

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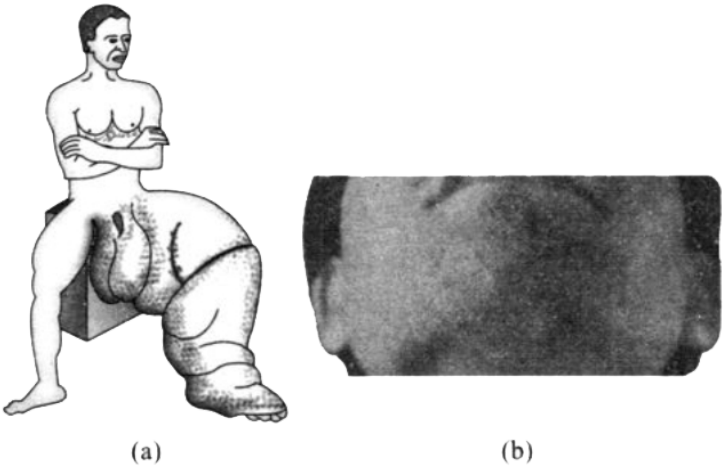
29. The person shown in the pictures is affected by a certain disease.



(a) (b)

A. a - caused by Wuchereria bancrofti and W Malayi, b - caused by Epidermophyton and Microsporum

B. a - Elephantiasis , b - ringworm

C. a - caused by a nematode , b - caused by fungi

D. All of the above

Answer: D

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30. Absence of circulatory system in Hydra is compensated by

A. pseudocoelomic fluid

B. gastrovascular cavity

C. presence of tentacles

D. None of these

Answer: B

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31. A man is admitted toa hospital. He is suffering from an abnormally low body temperature, loss of appetitie and extreme thirst. His brains scan would probably show a tumor in

A. medulla oblongata

B. pons varolii

C. cerebellum

D. hypothalamus

Answer: D

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32. Somatostain is produced by the

A. adenohypophysis

B. neurohypophysis

C. pineal gland

D. basal part of diencephalon

Answer: D

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33. A U-shaped bone present at the base of buccal cavity is called

A. Hyoid

B. Thyroid

C. Cricoid

D. Mandible

Answer: A

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34. Which of the following cannot be considered as an advantage of amniocentesis ?

A. Prenatal diagnostics

B. Detection of genetic disorders

C. Detection of congenital defects

D. Determination of sex to abort the female

Answer: D

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35. Select the correct statement from the following.

A. Fitness is the end result of the ability to adapt and get selected by nature.

B. Natural selection and genetic variation are two main key point of Darwinian Theory of evolution.

C. Adaptive ability is always inherited

D. Placental wolf and Tasmanian wolf are example of homology.

Answer: A

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36. In the case of Bacillus thuringiensis , Bacillus itself is not killed by toxic protein crystals produced by it because

A. Bt toxin protein is not produced in the bacteria

B. Bt toxin protein is produced in very less amount in the bacillus

C. Bt toxin exists as an inactive toxin

D. the bacteria is resistant to the Bt toxin

Answer: C

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37. Which of the following parts of the alimentary canal helps in providing immunity ?

A. Auerbach's Plexus

B. Meissner's Plexus

C. Peyer's Patches

D. Brunner's glands

Answer: C

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38. Which of the following statements about the excretory system is CORRECT ?

A. The vessel entering the glomerular capillaries is an arteriole while vessel coming out of the glomerular capillaries is a venule.

B. Minimum reabsorption in the nephron takes place in the distal convoluted tubule.

C. The counter - current and proximity between the Henle's loop and vasa recta maintain an increasing osmolarity towards the inner medullary interstititum.

D. As the filtrate passes through the ascending limb of Henle's loop it

becomes hypertonic.

Answer: C

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39. Which of the following represents uridylic acid ?

A. Uracil + Ribose

B. Uridine + Phosphoric acid

C. Uracil + Phosphoric acid

D. Uridine + Ribose + Phosphoric acid

Answer: D

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40. CO_2 dissociates from carbaminohaemoglobin in the alveoli when

A. pCO_2 is high and pO_2 is low

B. pO_2 is high and pCO_2 is low

C. pCO_2 and pO_2 are equal

D. pCO_2 is high and pO_2 is low with lesser

Answer: B

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41. Conversion of porthrombin to thrombin during clotting requires

A. Vitamin K

B. fibrin

C. thrombokinase

D. heparin

Answer: C

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42. Components of the areolar connective tissue include all of the following , except.

A. chondrocytes

B. collagen

C. macrophages

D. semi - fluid matrix

Answer: A

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43. Fill in the blanks:

1. By the end of the ....a... of pregnancy, the foetus develops limgs and digits.

2. By the end of ....b..., the body is covered with fine hair, eye -lids separate and eyelashes are formed.

3. After ...c... of pregnancy, the embryo's heart is formed.

A. a-first month, b-second month, c- first trimester

B. a - second month, b - first trimester , c - first month

C. a - second month, b - second trimester , c - first trimester

D. a - second month, b - second trimester , c - first month

Answer: D

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44. Internal bleeding , muscular pain , blockage of the intestinal passage and anaemia are some of the symptoms caused due to infection by

A. Wuchereria

B. Trichophyton

C. Ascaris

D. Plasmodium

Answer: C

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45. The members of which of the following phyla are exclusively marine ?

A. Arthropoda

B. Echinodermata

C. Annelida

D. Mollusca

Answer: B

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46. Choose the incorrect pair from the following with reference to the human ear.

A. mulleus , incus and stapes - provides the bony framework of the ear

B. pinna - collects the vibrations in the air which produce sound

C. Eustachian tube - helps in equalising the pressures on either sides of the eardrum

D. macula and crista - responsible for the maintenance of the balance of the body and posture

Answer: A

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47. Select the answer which correctly matches the endocrine gland with the hormone it secretes and its function/deficiency symptom :

A.

Endocrine gland	Hormone	Function/deficiency symptoms
Thyroid gland	Thyroxine	Lack of iodine in diet results in goitre

B.

Endocrine gland	Hormone	Function/deficiency symptoms
Corpus luteum	Testosterone	Stimulates spermatogenesis

C.

Endocrine gland	Hormone	Function/deficiency symptoms
Anterior pituitary	Oxytocin	Stimulates uterus contraction during childbirth

D.

Endocrine gland	Hormone	Function/deficiency symptoms
Posterior pituitary	Growth Hormone (GH)	Oversecretion stimulates abnormal growth

Answer: A

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48. Which of these is a part of appendicular skeleton?

A. Ribs

B. Cranium

C. Clavicle

D. Vertebrae

Answer: C

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49. If for some reason our goblet cells are non-functional, this will adversely effect

A. production of somatostatin

B. secretion of sebum from the sebaceous glands

C. maturation of sperms

D. smooth movement of food down the intestine

Answer: D

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50. Choose the WRONG statement regarding the Hardy - Weinberg principle.

A. The sum total of all the allelic frequencies in a population is 1.

B. Variation due to genetic drift results in a changed frequency of genes and alleles in future generations.

C. Natural selection can lead to stabilization, directional change , or

disruption.

D. Genetic recombination helps in maintaining the Hardy - Weinberg equilibrium.

Answer: D

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51. Autonomously replicating circular extrachromosomal DNA of a prokaryotic cell is called:

A. Satellite DNA

B. Plasmid

C. Nucleiod

D. Recombinant DNA

Answer: B

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52. Vasa recta is absent or highly reduced in a

A. juxtamedullary nephrons

B. cortical nephrons

C. both juxtamdullary and cortical nephrons

D. medullary nephrons

Answer: B

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53. Phospholipids are important components of cell membranes because they

A. can be easily phosphroylated by ATP.

B. can transport sodium and potassium ions across the membrane.

C. form a layered structure that can interface with water on two surfaces.

D. form a lipid belayed with their hydrophobic surface facing outward.

Answer: C

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54. Tobacco plants resistant to a nematode have been developed by the introduction of DNA that produced (in the host cells):

A. both sense and anti - sense RNA

B. a particular hormone

C. an antifeedant

D. a toxic protein

Answer: A

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55. Given below is the chemical formula of

$$CH_3(CH_2)_{14} - \overset{O}{\overset{||}{C}} - OH$$

A. Palmitic acid

B. Stearic acid

C. Glycerol

D. Galactose

Answer: A

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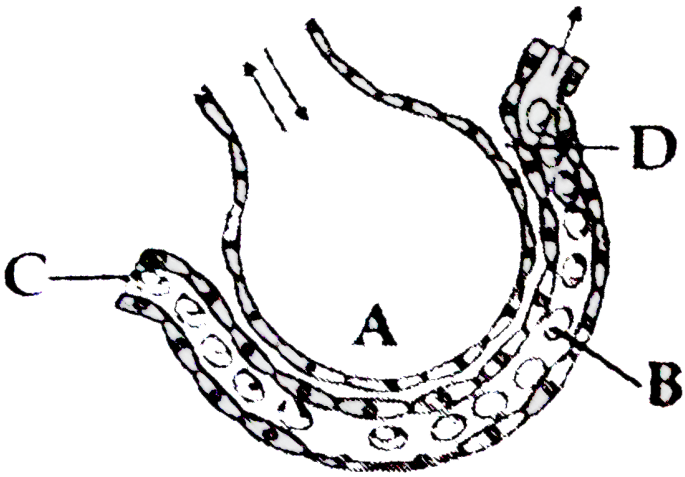
56. The figure given below shows a small part of human lung where exchange of gases takes place. In which one of the option given below, the one part A, B, C or D is correctly identified along with its functions



A. B : red blood cell - transport of CO_2 mainly

B. D : capillary wall - exchange of O_2 and CO_2 takes place here.

C. A : alveolar cavity - main site of exchange of respiratory gases

D. C : arterial capillary - passes oxygen to tissues

Answer: C

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57. What would be the cardiac output of a person having 72 heart beats per minute and a stroke volume of 50ml

A. 360 mL/min

B. 3600mL/min

C. 7200 mL/min

D. 500mL/min

Answer: B

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58. Find the INCORRECT statement about human reproduction.

A. Hormonal contraceptives are effective with lesser side effects and well accepted by females

B. Primary oocyte completes meiosis - I when sperm enters the cytoplasm of the primary oocyte

C. Spermatogenesis and oogenesis require different temperature

D. Spermatogenesis takes place in seminiferous tubules of testes

Answer: B

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59. The antibodies that can bind the largest number of antigens is .....while the antibody that is smallest in size is .....

Choose the option that correctly fills the blanks

A. IgA, IgM

B. IgM, IgA

C. IgG, IgD

D. IgM, IgG

Answer: D

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60. Increase in bleeding time and delay in blood coagulation is due to the deficiency of which hormone?

A. Thyroxine

B. Adrenaline

C. Noradenaline

D. Parathormone

Answer: D

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61. The phenomenon that is not part of Darwin's theory was :

A. Survival of the fittest

B. Arrival to the fittest

C. Branching descent

D. Struggle for existence

Answer: B

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62. Which of the following is used to deliver , a desirable gene into an animal cell ?

A. Disarmed retrovirus

B. Disarmed Agrobacterium

C. Disarmed E.coli

D. Both (A) and (C)

Answer: A

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63. The tapetum is responsible for the nourishment of

A. egg apparatus.

B. egg.

C. embryo.

D. pollens.

Answer: D

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64. Which of the given statements is NOT CORRECT regarding colour blindness ?

A. It is more common in mates than in females.

B. Homozygous recessive condition is required for the expression of colour blindness in females.

C. Males can be carriers of the trait.

D. Colour blind women always have a colourblind father and always produce a

colour blind son.

Answer: C

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65. Match the items in coumn I with column II and choose the correct option

	Column I	Column II
A	Binary fission	1 Algae
B	Zoospore	2 Amoeba
C	Conidium	3 Hydra
D	Budding	4 Penicillium
E	Germules	5 Sponge

A. $\begin{matrix} A & B & C & D & E \\ 1 & 4 & 5 & 3 & 2 \end{matrix}$

B. $\begin{matrix} A & B & C & D & E \\ 2 & 1 & 4 & 3 & 5 \end{matrix}$

C. $\begin{matrix} A & B & C & D & E \\ 2 & 4 & 3 & 5 & 1 \end{matrix}$

D. $\begin{matrix} A & B & C & D & E \\ 1 & 4 & 3 & 2 & 5 \end{matrix}$

Answer: B

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66. How many meiotic divisions are required to produce 104 male gametes in a typical Angiospermic plant ?

A. 25

B. 26

C. 51

D. 13

Answer: D

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67. In mice Y is the dominant allele for yellow fur and y is the recessive allele for grey fur.

Since Y is lethal when homozygous, the result of cross $Yy \times Yy$ will be

A. 3 yellow : 1 grey

B. 2 yellow : 1 grey

C. 1 yellow : 1 grey

D. 1 yellow : 2 grey

Answer: B

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68. Which of the following statements are false regarding 'Hershey and Chase' experiment, proving DNA is genetic material ?

(i) They made use of rats.

(ii) Radioactivity was seen in supernatant for the medium that was infected by phase radiolabeled with $.^{32}P$.

(iii) Used radioisotope to label sulphur with $.^{35}S$ in sulphur- containing amino acids.

(iv) Radioactive phages were allowed to attach to E. coli bacteria.

A. (ii) and (iii) only

B. (iii) and (iv)

C. (ii) , (iii) and (iv) only

D. (i) and (ii)

Answer: D

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69. In mung bean , resistance to yellow mosaic virus and powdery mildew were induced by

A. Biofortification

B. Hybrid breeding

C. Mutation breeding

D. Conventional breeding

Answer: C

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70. Match Column - I with Column - II and select the CORRECT option form the codes

given below

	Column I		Column II
(1)	A single trait controlled by three or more than three alleles	(i)	Pleiotropy
(2)	A single trait controlled by three or more than three genes	(ii)	Multiple alleles
(3)	A single gene exhibits multiple phenotypic expression	(iii)	Polygenic inheritance

A. 1 - (ii) , 2 - (iii), 3 - (i)

B. 1 - (iii) , 2 - (ii), 3 - (i)

C. 1 - (i) , 2 - (ii), 3 - (iii)

D. 1 - (ii) , 2 - (i), 3 - (iii)

Answer: A

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71. Which one of the following statement is CORRECT ?

A. Legumes fix nitrogen only through specialized bacteria that live in their leaves.

B. Legumes alone are capable of fixing nitrogen.

C. Legumes fix nitrogen only through the specialized that live in their roots.

D. Legumes fix nitrogen independently of the specialized bacteria that live in their roots.

Answer: C

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72. Biosphere is

A. composed of all living organisms present on earth which interact with the physical environment.

B. composed of the plants present in the soil.

C. a component in the ecosystem.

D. life in the outer space.

Answer: A

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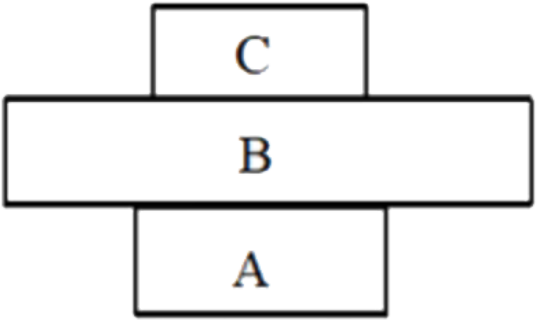
73. Refer to the given figure showing pyramid of number in a certain habitat. Identify A, B and C.



A. A - Grass, B - Rabbit, C - Fox

B. A - Phytoplankton , B - Small fish , C - Large fish

C. A- Tree, B - Birds , C - Hawk

D. A - Tree, B - Birds , C - Parasites

Answer: C

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74. The greatest biodiversity on Earth is found in :

A. Tropical Amazonian rain forest in South Africa

B. Temperate Amazonian rain forest in North America

C. Tropical Amazonian rain forest in South America

D. Temperate Amazonian rain forest in South America

Answer: C

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75. Which of the following is not properly matched?

A. Particulate matter - Respiratory problems

B. Electrostatic precipitator - Removing particulate matter

C. Catalystic converters - Platinum - Palladium and rhodium

D. Mean annual temperature of earth

$-25^{\circ}C$

Answer: D

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76. In a flowering plant 2n = 24, the number of chromosomes in its endosperm will be :

A. 18

B. 36

C. 20

D. 17

Answer: B

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77. Which of the following is not a example of recessive autosomal disease ?

A. Myotonic dystrophy

B. Cystic fibrosis

C. Phenylketonuria

D. Sickle - cell anaemia

Answer: A

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78. Cistron can be defined as :

A. The portion of DNA that codes for a polypeptide

B. The sequence of mRNA that codes for a protein

C. It is a mature mRNA

D. The structural gene found prokaryotes.

Answer: A

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79. A patient brought to a hospital with myocardial infraction is normally immediately given

A. Streptokinase

B. Cyclosporin - A

C. Statins

D. Penicllin

Answer: A

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80. In a graph of population, on x-axis time and on y-axis population is plotted. A parallel line to x-axis shows:

A. Natality equal to morrtality

B. Natality decreases, mortality increases

C. Natality constant, mortality increases

D. Natality increases, mortality decreases

Answer: A

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81. Secondary productivity is defined as

A. the rate of production of orgainc matter during photosynthesis.

B. the available boimass for the consumption to heterotrophs.

C. the rate of formation of new organic matter by consumers.

D. gross primary productivity minus respiration losses.

Answer: C

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82. In the equation of the species - area relationship , the letter 'C' and 'Z' represent:

A. C = Regression coefficient , Z = Y - intercept

B. C = Slope of the line, Z = Regression coefficient

C. C = Y - intercept , Z = Slope of the line (regression coefficient)

D. Both (B) and (C)

Answer: C

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83. Biomagnifications refers of

A. high production in agroecosystems.

B. high production in marine ecosystem.

C. increasing concentration of pollutant into higher trophic level through successive food chains.

D. increasing concentration of pollutants into an organism of lower trophic levels through food chains.

Answer: C

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84. Apomictic embryos in citrus arise from

A. Synergids

B. Nucellar cells

C. Antipodal cells

D. Diploid egg

Answer: B

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85. A common test to find the genotype of a hybrid is by

A. The crossing of one F_2 progeny with female parent

B. The crossing of one F_1 progeny with dominant male parent

C. The crossing of one F_1 progeny with recessive male parent

D. Crossing of one F_2 progeny with male parent.

Answer: C

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86. Which of the following events take place during post - transcriptional modification in eukaryotes ?

A. Exons are removed from primary transcript.

B. 7 - methyl gunosine cap is added at 3' end of RNA transcript

C. Addition of poly A segment at 5' end of transcript .

D. In tailing , adenylated residues are added in a template independent manner.

Answer: D

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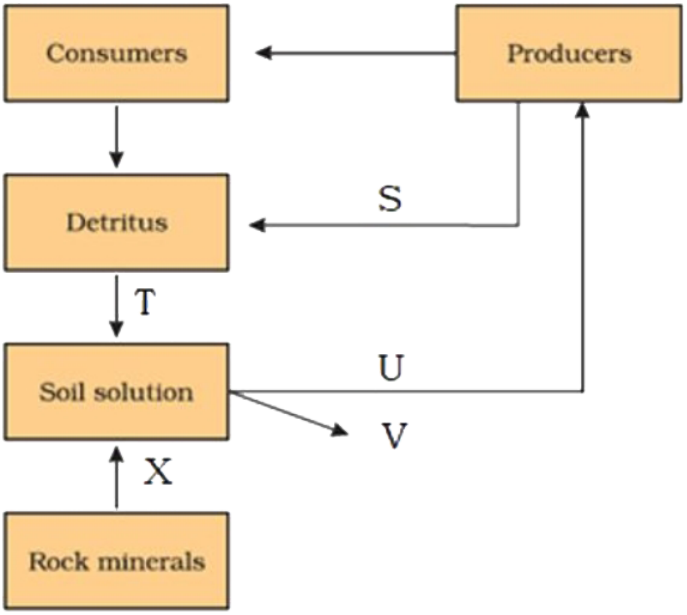
87. Select the CORRECT labels.



A. S - Decomposition , T- Weathering , U - Litter fall, V - Run off , X - Uptake

B. S - Litter fall, T- Weathering , U - Decomposition , V - Run off, X - Uptake

C. S - Uptake , T - Weathering , U - Litter fall , V - Decomposition , X - Run off

D. S - Litter fall, T - Decomposition , U - Uptake, V - Run off, X - Weathering

Answer: D

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88. Read the following statement and find out the INCORRECT statement.

A. Rauwolfia vomitoria is a medicinal plant.

B. Rauwolfia vomitroia is growing in different Himalayan ranges.

C. India has more than, 50 ,000 genetically different strains of rice.

D. In India, 10,000 varieties of mango are found.

Answer: D

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89. The body of the ovule fuses with funicle in the region called

A. micropyle

B. integuments

C. hilum.

D. chalaza.

Answer: C

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90. Trisomy is represented by

A. (2n -1)

B. (2n -2)

C. (2n +2)

D. (2n + 1)

Answer: D

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