



# BIOLOGY

## BOOKS - NTA MOCK TESTS

### NTA NEET SET 62

#### Biology

1. Smoking is not associated with increased incidence of cancers in?

A. Throat

B. Large intestine

C. Lungs

D. Mouth

**Answer: B**



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2. Which of the following is not a characteristic feature of the vector pBR322?

A. It has two antibiotic - resistance genes :

$amp^R$  and  $tet^R$ .

B. It was the first artificial cloning vector

constructed in 1977 by Boliver and

Rodriguez.

C. The ampicillin-resistance gene has

restriction sites for Bam HI and Sal I

D. The restriction site for Pvu II is present

in the replication of *l*pasmid (*rop*) gene .

**Answer: C**



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3. With respect to the ABO group, there are four major blood types because this blood group is determined by

A. Three alleles, all of which are recessive

B. Three alleles, of which , two are recessive

and the third is dominant

C. Three alleles, of which two are co-

dominant and the third is recessive

D. Three alleles , all of which are co-dominant

**Answer: C**



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**4.** The function of the largest lymphatic organ in man is

A. to control blood pressure

B. to assist liver

C. to act as a hemopoietic tissue

D. to assist kidneys

**Answer: C**



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5. In biochemical phase, fixation of carbon dioxide occurs by

A. RUBISCO

B. PGA

C. OAA

D. PGAL

**Answer: A**



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**6.** Tiger is not a resident in which one of the following national park?

A. Sunderbans

B. Gir

C. Jim Corbett

D. Ranthambhor

**Answer: B**



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7. Cretinism is due to

A. hyposecretion of thyroxine in adult

B. hypersecretion of thyroxine in childhood

C. hypersecretion of thyroid in adult

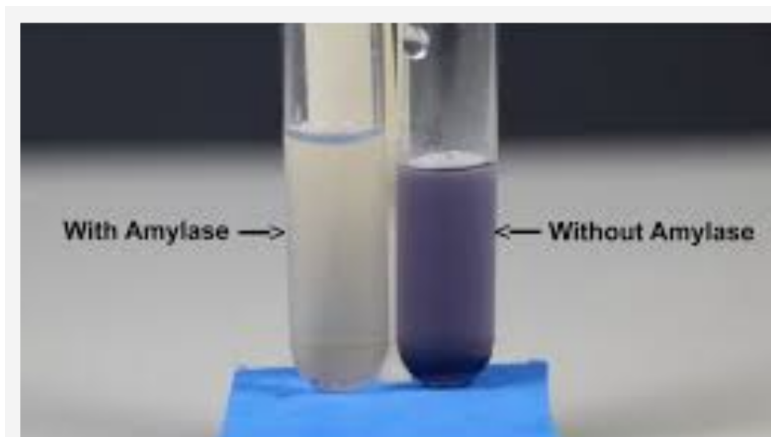


D. hyposecretion of thyroxine in childhood

**Answer: D**

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**8.** The given diagram illustrates the presence of



A. Amylose in aqueous solution

B. Amylopectin in aqueous solution

C. iodine in aqueous solution

D. Both amylose and iodine in the solution

**Answer: D**



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**9. Match the following and choose the correct option :**

Column-I (Lichens)		Column-II (Habitat)
A. Graphis	I.	Grow on stones or rocks
B. Dermatocarpon	II.	Grow on the bark of trees
C. Cladonia	III.	Grow on soil

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

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

C. A - II, B - III, C - II

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

**Answer: A**



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10. Which of the curve shows, how oxygen is loaded and unloaded due to partial pressure?

A.  $O_2$  curve

B.  $CO_2$  Curve

C. Bohr's curve

D.  $O_2$  Dissociation curve

**Answer: C**



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**11.** Deficiency in the activity of adrenal cortex leads to

A. Under secretion of adrenocorticoids  
(hypocorticism)

B. decreased the number of lymphocytes ,  
resulting in lymphocytopenia

C. high aldosterone and glucocorticoides  
level in blood.

D. decreased the number of eosinophils ,  
resulting in eosinopenia

**Answer: A**



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**12.** Which one of the following is a possibility for most of us in regards to breathing, by making a conscious effort

A. One can breathe out air totally without oxygen

B. One can breathe out air through eustachian tubes by closing both the

nose and the mouth

C. One can consciously breathe in and breathe out by moving the diaphragm alone, without moving the ribs at all.

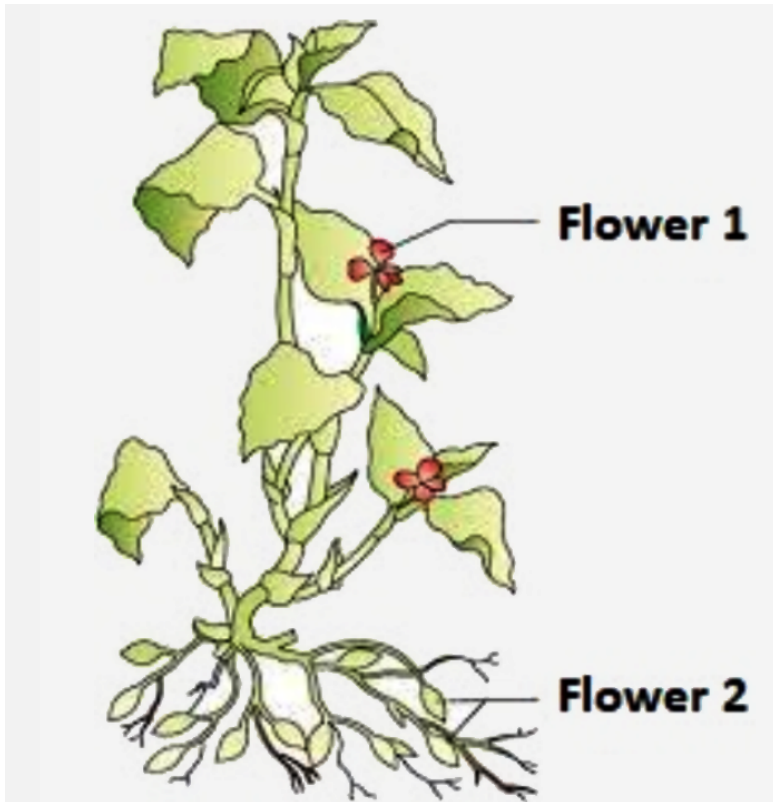
D. The lungs can be made fully empty by forcefully breathing out all air from them

**Answer: B**



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13. Type of flower and pollination that is observed in the given plant is



A. Flower 1 is chasmogamous and undergoes self-pollination , Flower 2 is



cleistrogamous and undergoes cross-pollination

B. Flower 1 is chasmogamous and undergoes cross-pollination , Flower 2 is Chasmogamous and undergoes Self-pollination

C. Flower 1 is chasmogamous and undergoes self-pollination , Flower 2 is chasmogamous and undergoes cross-pollination

D. Flower 1 is chasmogamous and undergoes cross-pollination, Flower 2 is cleistogamous and undergoes self-pollination

**Answer: D**



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**14.** The development of Funaria gametophyte always initiated from

A. Antheridium

B. Protenema

C. Archegonia

D. Capsule

**Answer: B**



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**15. Microsporangia of cycas is formed**

A. Abaxially on the middle portion of  
microsporophyll

B. Adaxially on the middle portion of  
microsporophyll

C. Abaxially on the middle portion of  
megasporophyll

D. At the extreme tip of microsporophyll

**Answer: A**



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16. If the seedling are grown in darkness

A. They are of the same size as those grown in light

B. They are much healthier than those grown in light

C. they are similar to those grown in light

D. They are taller than those grown in light

**Answer: D**



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17. Statement - I : The largely tropical Amazonian rain forest in North America has the greatest biodiversity on Earth. Statement - II : Amazon forest is home to more vertebrates than invertebrates.

A. Both the statement are true

B. Both the statement are false

C. Statement I is true and statement II is false

D. Statement II is true and statement I is false

**Answer: B**



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**18.** Highest and lowest population in india is in

A. M.P. and Tripura

B. U.P and Sikkim

C. Maharashtra and Nagaland

## D. Andro Pradesh and Assam

**Answer: B**



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**19.** Due to the nondisjunction of chromosomes during spermatogenesis, sperms carry both sex chromosomes ( $22A + XY$ ) and some sperms do not carry any sex chromosome ( $22A + O$ ). If these sperms fertilise normal eggs ( $22A + X$ ), what types of



genetic disorders appear among the offsprings ?

A. Klinefelter's syndrome and Turner's syndrome

B. Down's syndrome and Klinefelter's syndrome

C. Down's syndrome and Turner's syndrome

D. Down's syndrome and Cri-du-chat syndrome

**Answer: A**



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20. The fungus that may disease in human beings is

A. Puccinia

B. Aspergillus

C. Cystopus

D. Rhizopus

**Answer: B**



21. Which of the following blocks the entry of additional sperm, once a single sperm cell encounters ova?

- A. Corpus luteum
- B. Plasma membrane
- C. Corona radiata
- D. Zona pellucida

**Answer: D**



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22. Four daughter cells formed after meiosis are

- A. Genetically similar
- B. Genetically different
- C. Anucleate
- D. Multinucleate

**Answer: B**



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**23.** In ecological succession

A. Species response and community

response will be observed.

B. Species response and community

response will not be observed

C. Only species response is observed

without community response

D. neither species response not community  
response is observed

**Answer: A**



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**24.** The scapula is a large triangular flat bone situated in the dorsal part of the thorax between

A. second and fifth ribs

B. third and sixth ribs

C. third and eighth ribs

D. second and seventh ribs

**Answer: D**



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**25.** In 1984, Bhopal gas tragedy took place because methyl isocyanate

A. Reacted with DDT

B. Reacted with ammonia

C. Reacted with  $CO_2$

D. Reacted with water

**Answer: D**



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**26.** In *Drosophila* gene for white eye mutation is also responfor depigmentation of body parts. Thus a gene that controls several phenotypes is called



- A. Oncogene
- B. Epistatic gene
- C. Hypostatic gene
- D. Pleiotropic gene

**Answer: D**



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**27.** In a longitudinal section of a root, starting from the tip upward, the four zones occur in the following order

A. Root cap, cell division , cell enlargement ,  
cell maturation

B. Root cap, cell division, cell maturation,  
cell enlargement

C. Cell division, cell enlargement, cell  
maturation, root cap

D. cell division, cell maturation, cell  
enlargement, root cap

**Answer: A**



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**28.** Tropic movement is due to

A. Cell elongation

B. cell division

C. Both Cell elongation and Cell division

D. Cell thickening

**Answer: A**



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29. The Indian population was approximately \_\_\_\_\_ at the time of independence.

A. 450 million

B. 225 million

C. 950 million

D. 350 million

**Answer: D**



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30. Match the disease in Column I with the appropriate items (pathogen/prevention/treatment) in Column II.

Column I	Column II
a) Amoebiasis	i) <i>Treponema pallidum</i>
b) Diphtheria	ii) Use only sterilized food and water
c) Cholera	iii) DPT Vaccine
d) Syphilis	iv) Use oral rehydration therapy

A. a - (i), b - (ii), c - (iii) , d - (iv)

B. a - (ii), b - (iv), c - (i), d - (iii)

C. a - (ii), b - (i) , c - (iii), d - (iv)

D. a - (ii), b - (iii), c - (iv), d - (i)

**Answer: D**



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**31.** Based on the different reasons for conserving biodiversity, choose the incorrect one from the following

A. The ethical argument for conserving biodiversity relates to what we owe to

nature and our contribution to protecting it.

B. The most obvious arguments for conserving the biodiversity are made through the narrowly utilitarian approach

C. The benefits of pollination are argued as a reason through the narrowly utilitarian approach

D. One of the major benefits reaped from plants are medicines, from which more than 25 per cent of the drugs currently sold in the market worldwide are derived.

**Answer: C**



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**32.** Sickle cell anaemia is favoured by nature in a malaria - prone area. Which of the following category will be favoured and what type of selection is it?

A. Normal individual , balancing selection

B. Homozygous individual sickle cell,  
disruptive selection

C. Heterozygous female, balancing  
selection

D. Homozygous male, normalising selection

**Answer: C**



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**33.** An improved variety of transgenic basmati rice

- A. Gives high yield and is rich in Vitamin A
- B. Is completely resistance to all insect pests and diseases of paddy

C. Gives high yield but has no characteristic  
aroma

D. Does not require chemical fertilizers and  
growth hormones

**Answer: A**



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**34. Membrane-bound organelles are absent in**

**:**

A. Saccharomyces

B. Streptococcus

C. Chlamydomonas

D. Plasmodium

**Answer: B**



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**35.** The "lock and key" model of enzyme action illustrates that a particular enzyme molecule

A. maybe destroyed and resynthesised  
several times

B. interacts with a specific type of  
substrate molecule

C. reacts at identical rates under all  
conditions

D. forms a permanent enzyme-substrate  
complex

**Answer: B**



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**36.** Deficiency of which of the following can cause yellowing of intravenous regions of leaves?

A. Calcium

B. Potassium

C. Copper

D. Phosphorus

**Answer: B**



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**37.** In erythroblastosis foetals,

A. Rh antibodies pass from the Rh(+ve) mother into the Rh(-ve) baby through the placenta .

B. Rh antibodies pass from the Rh(-ve) mother into the Rh(+ve) baby through the placenta.

C. Rh antigens pass from the Rh(-ve) mother into the Rh(+ve) baby through the placenta.

D. Rh antigens pass from the Rh(+ve) mother into the Rh(-ve) baby through the placenta.

**Answer: B**



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**38.** Pineapple fruit develops from

A. a multiocular, monocarpellary flower

B. a unilocular, polycarpellary flower

C. a multipistillate syncarpous flower

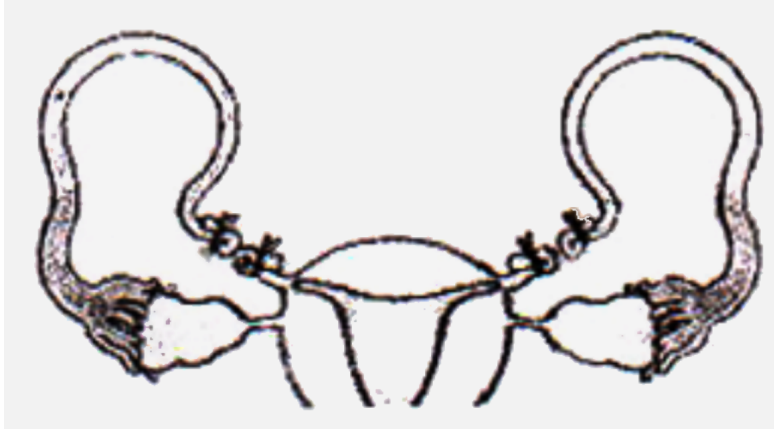
D. a cluster of compactly borne flowers on  
a common axis

**Answer: D**



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39. In the given surgical method below, which of the following statemet is incorrec?



- A. A small portion of the fallopian tube is removed
- B. it is also known as sterilisation
- C. a small incision is made through the uterus.

D. it is an irreversible method of  
contraception.

**Answer: C**



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**40.** The cells of the quiescent centre are  
characterised by

A.  $G_1$  phase

B.  $G_2$  phase

C.  $G_0$  phase

D. S-phase

**Answer: C**



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**41.** The Hardy-Weinberg principle cannot operate if

A. The population is very large

B. Frequent mutations occur in the population

C. The population has no chance of interaction with other populations

D. Free interbreeding occurs among all members of the population

**Answer: B**



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42. Which statement is not related to S-shaped population curve?

A. Environment resistance suddenly

become effective

B. Exponential phase is following by decline

phase

C. Mass mortality and population crash

occurs

D. both (a) and (c )

**Answer: D**



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**43. Hydra is**

A. Freshwater form , radially symmetrical  
and diploblastic animal

B. marine, radially symmetrical and  
diploblastic animal.

C. Freshwater form , bilaterally symmetrical  
and diploblastic animal

D. marine, radially symmetrical and  
triploblastic animal.

**Answer: A**



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**44.** Gene regulation governing lactose operon  
of E. coli that involves the lac I gene product is



A. Positive and inducible because it can be induced by lactose

B. Negative and inducible because repressor protein prevents transcription

C. Negative and repressible because repressor protein prevents transcription

D. Feedback inhibition because excess of  $\beta$ -galactosidase can switch off transcription

**Answer: B**



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45. Which one of the following statement is correct regarding blood pressure?

A. 90/100 mmHg may harm vital organs like  
brain and kidney

B. 105/50 mmHg makes one very active

C. 100/55 mmHg is considered an ideal  
blood pressure

D. 150/90 mmHg is considered high and  
required treatment

**Answer: D**



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**46.** The order of occurrence of the  
cytochromes in the  $F_1$  particles is

A. *cytb*, *cytc*, *cyta* – *cyta*<sub>3</sub>

B. *cytc*, *cytb*, *cyta* – *cyta*<sub>3</sub>

C. *cyta*, *cytb*, *cytc* – *cyta*<sub>3</sub>

D. *cyta*<sub>3</sub>, *cyta*, *cytc* – *cytb*

**Answer: A**



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**47.** Match the items in column I and column II and choose the correct option :

	Column-I		Column- II
(A)	X-rays radiography	(1)	Haematopoietic cells
(B)	Angioplasty	(2)	Antigen – antibody interaction
(C)	Leukaemia	(3)	Wilhelm Roentgen
(D)	ELISA	(4)	Coronary atherosclerosis plaque

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

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

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

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

**Answer: C**



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**48.** A population is in Hardy-Weinberg equilibrium for a gene with only two alleles. If

the gene frequency of an allele 'A' is 0.7,  
genotype frequency of 'Aa' is

A. 0.21

B. 0.42

C. 0.36

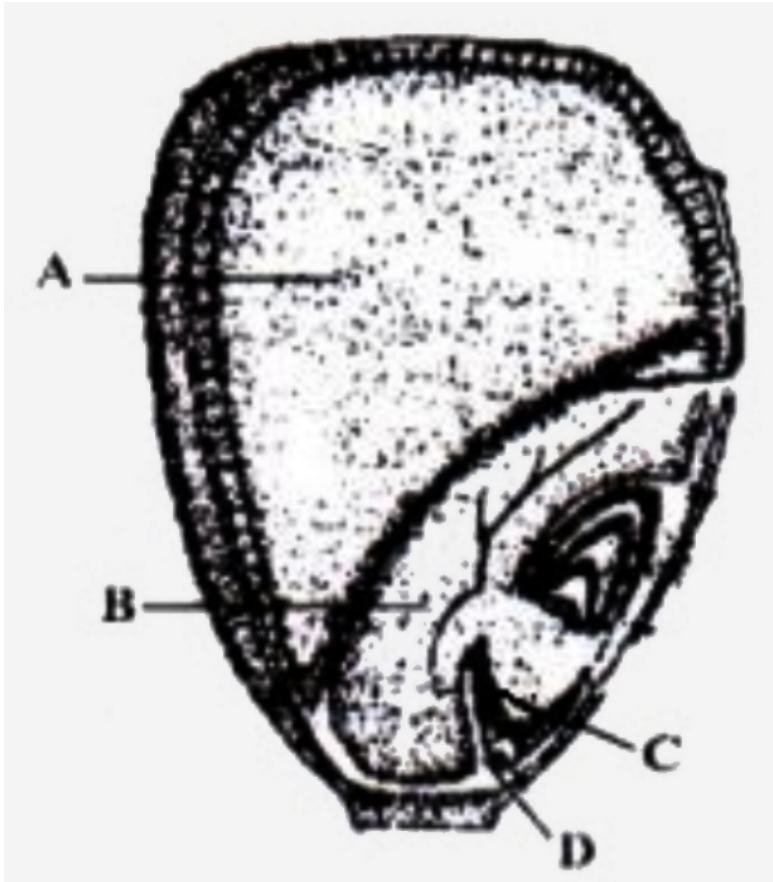
D. 0.7

**Answer: A**



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49. The given figure shown L.S of the seed of maize . What do A, B ,C and D represent ?



A. A : Endosperm B : Scutellum

C : Plumule D : Coleoptile

B. A : Scutellum B : Pericarp

C : Radicle D : Coleoptile

C. A : Endosperm B : Scutellum

C : Radicle D : Coleorhiza

D. A : Scutellum B : Pericarp

C : Plumule D : Coleorhiza

**Answer: C**



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50. Which of the following statement is true ?

A. Saltatory conduction is seen in non-myelinated nerve fibres

B. Nissl's granules are found in muscles fibres

C. Non-myelinated nerve fibres do not possess nodes of Ranvier

D. Non-myelinated nerve fibres are completely enclosed by a myelin sheath

**Answer: C**



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51. The values of osmotic potential ( $\pi$ ) and pressure potential ( $\rho$ ) of cells A, B, C and D are given below.

Cell	$\pi$	$\rho$
A	-1.0	0.5
B	-0.6	0.3
C	-1.2	0.6
D	-0.8	0.4

Identify the correct sequence that shows the path of movement of water from among the following .

A.  $D \rightarrow C \rightarrow A \rightarrow B$

B.  $B \rightarrow D \rightarrow A \rightarrow C$

C.  $B \rightarrow C \rightarrow D \rightarrow A$

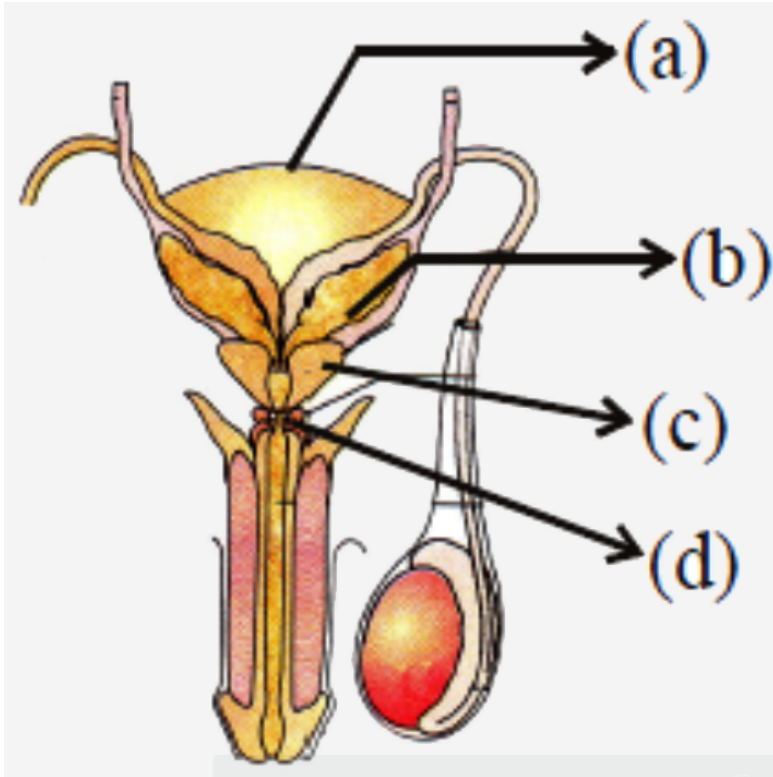
D.  $C \rightarrow B \rightarrow A \rightarrow D$

**Answer: B**



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52. Consider the diagram given below and choose the correct option.



A. Structure(a) = Urethral meatus,

Function (a) = Storage of urine

B. Structure(b) = Seminal vesicle,

Function (b) = Attraction between  
opposite sex

C. Structure(c) = Prostate gland,

Function (c) = Fuel of sperm

D. Structure(d) = Bulbourethral gland,

Function (d) = Lubrication of the penis

**Answer: D**



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53. Plasmogamy is fusion of

- A. Two haploid cells including their nuclei
- B. Two haploid cells with out nuclear fusion
- C. Sperm and egg
- D. Sperm and two polar nuclei

**Answer: B**



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54. The sudden mass killing of fishes is likely to be seen in a

A. mesotrophic lake

B. oligotrophic lake

C. salt lake

D. eutrophic lake

**Answer: D**



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**55.** These processes are necessary for the complete development of male gametophyte from pollen mother cell

A. One meiotic division and two mitotic divisions

B. One meiotic division and one mitotic division

C. Two meiotic divisions and one mitotic division



D. Two meiotic divisions and two mitotic divisions

**Answer: A**



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**56.** Lichens are symbiotic associations between a fungus and algae. Most of these lichens consist of:

A. Red algae and ascomycetes

B. Brown algae and phycomcetes

C. Blue - green algae and basidiomycetes

D. Blue - green algae and ascomycetes

**Answer: D**



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**57.** EcoRI always cut DNA molecules at a particular point by recognizing a specific sequence between :

A. G and A

B. T and C

C. A and A

D. T and T

**Answer: A**



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**58.** Which of the following statement regarding universal rules of nomenclature is wrong

- A. The first word in a biological name represents the genus
- B. the first word denoting the genus starts with a capital letter
- C. Both the words in a biological name, when handwritten are separately underlined
- D. Biological names are generally in greek and written in italics

**Answer: D**



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59. Which one of the following hydrolyses internal phosphodiester bonds in a polynucleotide chain

A. Lipase

B. Protease

C. Endonuclease

D. Exonuclease

**Answer: C**



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60. In the lactose operon of *Escherichia coli* what is the function of promoter ?

- A. Binding of Gyrase enzyme
- B. Binding of RNA polymerases
- C. Codes for RNA polymerase
- D. Processing of messenger RNA

**Answer: B**



61. Biochemical Oxygen Demand (BOD) may not be a good index for pollution for water bodies receiving effluents from

- A. domestic sewage
- B. dairy industry
- C. petroleum industry
- D. sugar industry

**Answer: C**



62. In human body, the role of bile salts in digestion is to

A. act as co-enzymes during the digestion of carbohydrates

B. emulsify fats and facilitate their absorption.

C. aid in the break-up of proteins into amino acids and their absorption



D. stimulate the pancreas to release its enzymes

**Answer: B**



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**63.** Read the following statements carefully -

(A) The lipid component of the plasma membrane mainly consists of phosphoglycerides.

(B) Polar molecules can pass through the lipid

bilayer of the plasma membrane, therefore they do not require carrier proteins to facilitate their transport.

(C ) The secondary wall is capable of growth and it is formed on the outer side of the primary wall.

(D) Quasifluid nature of lipid enables the lateral movement of proteins within the overall lipid bilayer of the plasma membrane.

(E) Middle lamella glues the different neighbouring cells together.

How many statements are incorrect?

A. Three

B. Five

C. Four

D. Two

**Answer: D**



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**64.** Dough kept overnight in warm weather  
becoms soft and spongy because of

A. Cohesion

B. Osmosis

C. absorption of carbon dioxide from  
atmosphere

D. fermentation

**Answer: D**



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65. Which one of the following is a viral disease of poultry?

A. Bird flu

B. Swine flu

C. Fowl Cholera

D. Spirochaetosis

**Answer: A**



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**66.** An organism with two identical alleles for a given trait is:

A. homozygous

B. heterozygous

C. dominant

D. hermaphrodite

**Answer: A**



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**67.** (i) Radial symmetrical

(ii) Diploblastic

(iii) The cellular level of organization

(iv) Digestion is intracellular only

(v) Exhibit two basic body forms called polyp and medusa.

How many points are correct about Obelia?

A. Two

B. Three

C. Four

D. Five

**Answer: B**



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**68.** Which of the following protein is produced by genetic engineering as a cure for diseases like emphysema?

A.  $\alpha$  - 1 antitrypsin

B. Trypsin



C. Chymotrypsin

D. All of the above

**Answer: A**



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**69.** Which of the following is considered as the sugar factory of the cell?

A. Chloroplast

B. Mitochondrion

C. Endoplasmic reticulum

D. Ribosome

**Answer: A**



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**70.** How much linkage strength is present between two genes A & B, which are 6 cM far from each other in a chromosome ?

A. 0.06

B.  $\leq 50\%$

C. 94%

D. Data insufficient

**Answer: C**



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71. Which of the following is an example of negative feedback loop in humans

A. Secretion of tears after falling of sand particles into the eye

B. Salivation of mouth at the sight of delicious food

C. Secretion of sweat glands and constriction of skin blood vessels when it is too hot

D. Constriction of skin blood vessels and contraction of skeletal muscles when it is too cold

**Answer: D**



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**72. Choose the wrong statement.**

A. Neurospora is used in the study of biochemical genetics .

B. Morels and truffles are poisonous mushrooms

C. Yeast is unicellular and useful in fermentation

D. Penicillium is multicellular and produces antibiotics.

**Answer: B**



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**73.** The sperm producing substance of enzymatic nature of sperm lysin. In mammals it is called

A. hyaluronidase.

B. hyaluronic acid.

C. androgamone

D. fertilizin

**Answer: A**



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**74.** Which of the following step of translation does not consume a high energy phosphate bond

A. Translocation

B. Amino acid activation

C. Peptidyl-transferase reaction

D. Aminoacyl tRNA binding to active  
ribosomal site

**Answer: A**



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**75. Which of the following is not uricotelic?**



A. Cockroach

B. Pigeon

C. Sparrow

D. Frog

**Answer: D**



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**76.** Endothecium layer of anther lobes is present

- A. Outside the epidermis
- B. Just inside the epidermis
- C. In the innermost layer
- D. In the middle region

**Answer: B**



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**77.** Agarose extracted from sea weeds finds use in

A. Spectrophotometry

B. Tissue culture

C. PCR

D. Gel electrophoresis

**Answer: D**



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**78.** Stalk with which ovules remain attached to placenta is called

A. funicle

B. raphe

C. hilum

D. chalaza

**Answer: A**



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**79.** The four sketches (A, B, C and D) given below represent four different types of animal tissues .

Which one of these is correctly identified in the options given along with its correct location and function?



(A)



(B)



(C)



(D)

	Tissue	Location	Function
(A)	Simple squamous epithelium	Trachea	Diffusion boundary
(B)	Unicellular gland	Alimentary canal	Secretion
(C)	Bone	Larynx	Secretion
(D)	Compound epithelium	Skin	Protection

A. A

B. B

C. C

D. D

**Answer: D**



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**80.** Seedless banana is

A. parthenocarpic fruit

B. multiple fruit

C. drupe fruit

D. both (a) and (c )

**Answer: A**



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**81.** Which of the following statement is incorrect?

A. The spring wood is lighter in colour and exhibits low density whereas the autumn wood is darker and has higher density

B. The heart wood is more durable and resistant to the attack of the microorganism and insects as compared to the sap wood

C. Complementary cells are parenchymatous

D. Enucleated condition is found in phloem

parenchyma

**Answer: D**



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**82. Potato and sweet potato**

A. have edible parts which are homologous

organs

B. have edible parts which are analogous organs

C. have reproductive parts which are homologous

D. are two species of the same genus

**Answer: B**



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**83.** Which of the following is the correct representation of detritus food chain?

A. Detritus (dead organic matter) →

detrivores → decomposers

B. Detritus → microbes → detrivores

→ decomposers

C. Detrivores → organic matter →

microbes → decomposers

D. Grass → detrivores → decomposers

**Answer: A**



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**84.** The treatment of snake-bite by antivenine is an example of

- A. artificially acquired active immunity
- B. artificially acquired passive immunity
- C. naturally acquired passive immunity.
- D. specific natural immunity.

**Answer: B**



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**85.** Name the ion responsible for the unmasking of active sites for myosin for cross-bridge activity during muscle contraction

A. Calcium

B. Magnesium

C. Sodium

D. Potassium

**Answer: A**



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**86.** Eutrophication of water bodies leading to killing of fishes is mainly due to non-availability of:

A. light

B. essential minerals

C. oxygen

D. food

**Answer: C**



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**87. Pollination in water hyacinth is through**

A. Air

B. Water

C. Insect

D. Carrion flies

**Answer: C**





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**88.** Electrons from excited chlorophyll molecule of photosystem II are accepted first by

- A. Cytochrome - b
- B. Cytochrome - f
- C. Plastoquinone
- D. Ferredoxin

**Answer: C**



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89. Which of the following muscular disorders is inherited?

- A. Tetany
- B. Muscular dystrophy
- C. Myasthenia gravis
- D. Botulism

**Answer: B**



90. Which of the following enzyme is produced by yeast during fermentation?

A. Decarboxylase

B. Zymase

C. Dehydrogenase

D. Enolase

**Answer: B**



