



## BIOLOGY

### BOOKS - NTA MOCK TESTS

#### NTA NEET SET 53

##### Biology

1. The arteries differ from veins in having :

A. Arteries consist of three distinct layers , which are thin and collapsible whereas veins consist of three distinct layers, which are rigid , thicker and highly muscular.

B. Veins consist of three distinct layers, which are thin and collapsible whereas arteries consist of three distinct layers ,

which are rigid , thicker and highly muscular.

C. Veins consist of two distinct layers, which are thick and collapsible whereas arteries consist of three distinct layers , which are rigid , thicker and highly muscular.

D. Arteries consist of three distinct layers , which are thin and muscular whereas veins consist of three distinct layers, which are rigid , thicker and highly vascular.

**Answer: B**



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**2. Find out the incorrect statements :**

(1) Blue-green alga is a prokaryotic cell.

(2) WBC is amoeboid in shape.

(3) Mycoplasma is the largest cell.

(4) Microbodies are cell organelles.

(5) Prokaryotes do not exhibit a wide variety of shapes.

A. 2,4 and 5

B. 2,3 and 5

C. 3,4 and 5

D. 3 and 5 only

**Answer: D**



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**3.** Read the following statements ( A-C ) about the human heart :

A. The SA node is a specialized mass of cardiac tissue present in the lower-left corner of the right atrium close to the AV septum.

B. The body has the ability to alter the heart rate, cardiac output but not stroke volume.

C. The end of the T- wave in ECG marks the end of the systole.

How Many statements is /are correct from the above?

A. Three

B. Two

C. One

D. None

**Answer: B**



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4. George palade observed granular structure under electron microscopy which is composed of

A. RNA & DNA

B. RNA & Carbohydrates

C. RNA & Proteins

D. RNA & Amino acids

**Answer: C**



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5. Select incorrect statements.

1. Diplotene stage is not recognized by the dissolution of the synaptonemal complex.
2. Recombination nodules contain a recombinase enzyme.
- 3 . Interkinesis is generally short - lived .
4. In anaphase II separation of homologous chromosomes ( bivalents ) separate to opposite poles.

A. 1 and 2

B. 2 and 3

C. 2 and 4

D. 1 and 3

**Answer: D**



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**6.** Which of the following statements is not correct for most common type of nephrons of human kidney ?

A. They are small size, less coiled with major part present at the junction of cortex and medulla.

B. They have short length of loop of Henle.

C. They do not have major role to form counter current mechanism.

D. They have no or highly reduced vasa recta.

**Answer: A**



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7. Every chromosome essentially has a primary construction or the ..... , on the sides of which disc shaped structures called .... are present

- A. Centrosome, centromere
- B. Chromocenter , centromere
- C. Centromere , kinetochores
- D. Centromere, centromere

**Answer: C**



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8. Trypsinogen is activated into trypsin by an enzyme .....X.....

Secreted by .....Y..... Choose the option which correctly describes 'X'

and 'Y'

- A.  $\begin{matrix} X & Y \\ (A) & \text{Trypsinase} & \text{Small intestine} \end{matrix}$
- B.  $\begin{matrix} X & Y \\ (B) & \text{Intestinal Lipase} & \text{Small intestine} \end{matrix}$
- C.  $\begin{matrix} X & Y \\ (C) & \text{Enterokinse} & \text{Intestinal mucosa} \end{matrix}$
- D.  $\begin{matrix} X & Y \\ (D) & \text{Steapsin} & \text{Small Intestine} \end{matrix}$

**Answer: C**



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9. A cell divides when its karyocytoplamic index or karyoplasmic index

A. Decreases



- B. Increased
- C. Restored
- D. Remain same

**Answer: A**



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**10. The 5th thoracic vertebra is**

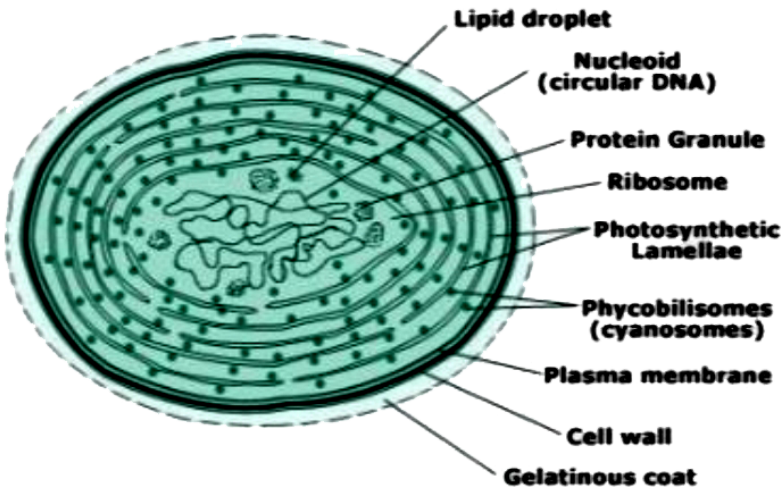
- A. the region of the spinal column inferior to the sacral vertebrae
- B. the region of the spinal column superior to the cervical vertebrae of the neck
- C. at the same level as the sternal angle
- D. inferior to the lumbar vertebrae of the lower back

Answer: C



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11. Observe and identify the given structure.



A. Brown-algae

B. Blue -green algae

C. Red - algae

D. Green- algae

**Answer: B**



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**12.** What is the number of carbon atoms which the palmitic acid and arachidonic acid contain (including carboxyl carbon )?

A. 16,19

B. 15,19

C. 16, 20

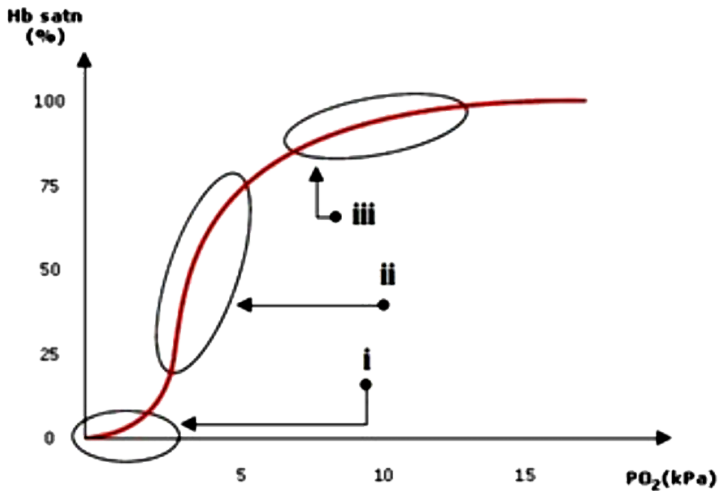
D. 18,20

**Answer: C**



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13. Identify the labelings i, ii , and iii in the hemoglobin-oxygen dissociation curve .



A. i. Binding of 1st oxygen molecule (easy to bind).

ii. Binding of 3rd oxygen molecule (easy to bind)

iii. Binding of 2nd oxygen molecules (very difficult to bind).

B. i. Binding of 1st oxygen molecule (easy to bind).

ii. Binding of 2nd oxygen molecules (easy to bind).

iii. Binding of 3rd oxygen molecule (very difficult to bind)

C. i. Binding of 1st oxygen molecule (easy to bind).

ii. Binding of 2nd oxygen molecules ( difficult to bind).

iii. Binding of 3rd oxygen molecule (difficult to bind)

D. i. Binding of 1st oxygen molecule (difficult o bind)

ii. Binding of 2nd oxygen molecules (easy to bind).

iii. Binding of 3rd oxygen molecule (very difficult to bind)

**Answer: D**



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**14. In the primary structure of protein**

A. Left end represents → 1 st amino acid (C- terminal amino acid)

B. Right end represents → Last amino acid (N-terminal amino acid)

C. Left end represents → 1st amino acid (N-terminal amino acid)

D. Right end represents → Last amino acid (C-terminal amino acid)

**Answer: C**



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**15.** Which of the following connections are not true about the special creation theory of the origin of life ?

A. All living organisms that we see today we're created as such .

B. The earth is about 4000 years old.

C. There has been gradual evolution of the form.

D. Diversity was always the same since creation and will remain same in future also .

**Answer: C**



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**16.** Three of the following statements about enzymes are correct, which one is wrong ?

A. Higher temperature destroys enzymatic activity because proteins are denatured by heat .

B. Enzymes are denatured at high temperature but in. Certain exceptional organisms they are effective even at temperature from  $80^{\circ} - 90^{\circ} C$ .

C. Enzymes lower the activation energy and hasten the enzyme-catalyzed reaction.

D. Most of the enzymes are active intracellular only and gets inactivated under extracellular conditions

**Answer: D**



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**17. Find the correct match in the following:**

A. Viruses are smaller in size ranging from 20-400 nm and bacteria is larger in size , around 1000 nm.

B. Origin of solar system : 20 billion years ago and organic of universe system: 50 billion years ago



- C. Founder effect operates in a large population and gene flow operates in a small population
- D. Deep veins are located on the surface of the skin

**Answer: A**



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**18. Which of the following plant cells show totipotency ?**

- A. Cork cells , meristem , spores
- B. Meristem, zygote , spores
- C. Spores, zygote, xylem vessels
- D. Sieve tube , zygote , spores

**Answer: B**



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19. Arrange the following places in increasing order of bird diversity.

(i) New York

(ii) India

(iii) Greenland

(iv) Columbia

A. (iii) , (iv), (ii) ,(i)

B. (iv), (iii),(ii) , (i)

C. (i) , (ii),(iii),(iv)

D. (iii),(i),(ii),(iv)

**Answer: D**



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20. Match the following column I with column II :

	Column-I		Column-II
(A)	Homo habilis	(I)	first human-like being hominid
(B)	Homo erectus	(II)	buried their dead with flowers
(C)	Neanderthal man	(III)	brain size around 900cc
(D)	Cro-magnon man	(IV)	excellent cave painting/art

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

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

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

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

**Answer: D**



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21. Which of the following set of animals are triploblastic, true coelomates with open type circulatory system ?

- A. Earthworm , Cockroach , Nereis
- B. Cockroach, Octopus , Leech
- C. Mosquito, pheretima , Nereis
- D. Cockroach , Leech , pila

**Answer: D**



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22. Which cross leads to the production of the mule ?

- A. Male donkey X female horse
- B. Female donkey X male horse

C. Stallion X female donkey

D. Stallion X mare

**Answer: A**



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23. Which of the following statements is correct about cyclostomata ?

- A. All living members are endoparasites on some fishes.
- B. They have an elongated body bearing 2 pair of gill slits
- C. They have a sucking and circular mouth without jaws .
- D. All of the above.

**Answer: C**



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24. Which of the following is not under broadly utilitarian reasons for conserving biodiversity?

- A. Human derive direct economic benefit from nature.
- B. Many drugs are derived from plants.
- C. Medicinally useful plants are present in tropical forest .
- D. Many insect pollinates the plants

**Answer: D**



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25. Which of the following contraceptive method has high rate of failure ?

A. Oral contraceptive pills

B. Implants

C. Barrier method

D. Periodic abstinence

**Answer: D**



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**26. Which metal inactivates a catalytic converter ?**

A. Gold

B. Lead

C. Silver

D. Iron

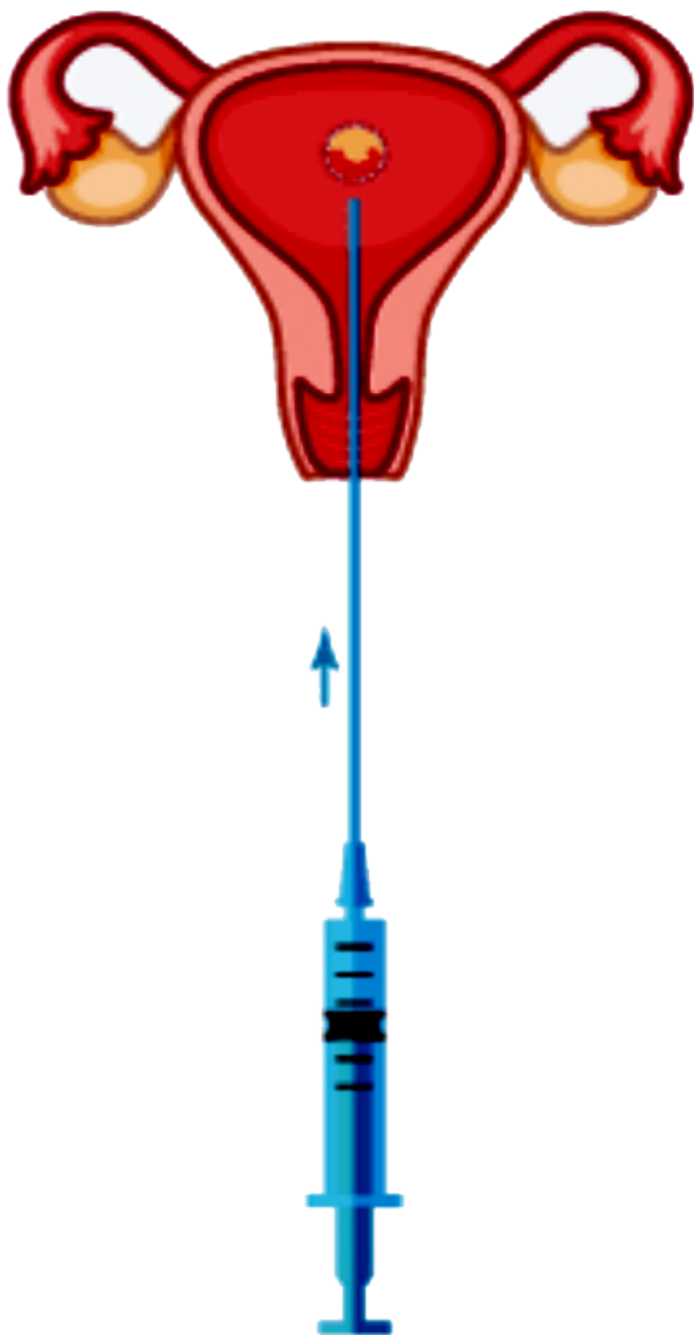
**Answer: B**



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27. The given diagram represents



- A. The injection of ovum and sperms to the female uterus.
- B. The blastomere is transferred to the body.
- C. In vitro fertilization followed by zygote transfer into a fallopian tube or uterus of the female.
- D. Both (a) and (c)

**Answer: B**



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**28.** How many of the following statements are correct ?

1. Good ozone is found in the stratosphere.
2. UV radiation having a lower wavelength than UV -B is almost completely absorbed by the Earth's atmosphere.

3. UV - B causes snow blindness and cataract.

4. dB is a unit to measure the thickness of ozone.

A. one

B. Two

C. Three

D. Four

**Answer: C**



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**29.** Under favorable conditions, somatic cells store food materials, which become thick-walled structures and are called as

A. Heterocysts

B. Akinetes

C. Gemmule

D. Endospores

**Answer: B**



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**30. Reducing sugars are**

A. Glucose , fructose, maltose , galactose and lactose

B. Glucose, sucrose and cellulose

C. Lactose , starch, glycogen and trehalose

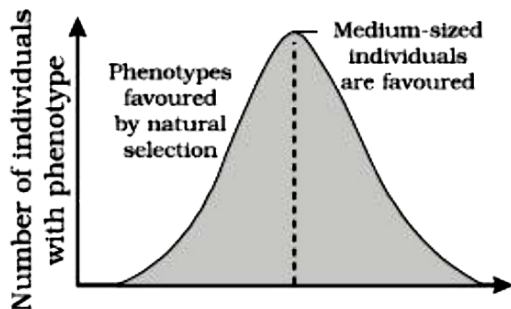
D. All of the above

**Answer: A**

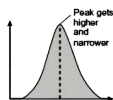


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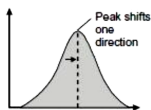
31. The following graph shows the range of variation among population members for a trait determined by multiple genes.



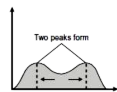
If this population is subject to stabilizing selection for several generations, which of the distribution is most likely to result ?



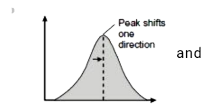
A.



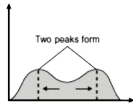
B.



C.



and



D.

**Answer: A**



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**32.** All the events of the menstrual cycle stop and there is no menstruation during pregnancy is due to

- A. Negative feedback of FSH & LH
- B. Negative feedback of oxytocin
- C. Negative feedback of prolactin
- D. Negative feedback of progesterone

**Answer: D**



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**33.** Under unfavourable condition many zooplankton species in lakes and ponds enter

- A. Aestivation
- B. Migration
- C. Diapause
- D. Hibernation

**Answer: C**



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**34.** Read the statements given below :

(i) The first movements of the foetus and appearance of hair on

the head are usually observed during 5th months of pregnancy.

(ii) The structural and functional unit between developing embryo and the maternal body is called the umbilical cord .

(iii) At puberty , in female both ovaries contain about 60,000 – 80,000 primary follicles .

Choose the correct statement from the above .

A. i, ii, and iii

B. i and ii

C. ii and ii

D. only i

**Answer: D**



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**35.** A place , which used to be rocky and barren, has now turned into a lush green forest . The plant succession of the area is

- A. Lichen , moss, herbs, shrubs
- B. Moss, lichen, herbs, shrubs
- C. Lichen , moss ,shrubs, herbs
- D. Shrubs, herbs , moss lichen

**Answer: A**



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**36.** Which one of the following pair of reproductive organs does not show homology between males and females ?

- A. Glans penis & Clitoris

B. Scrotum & Labia minora

C. Bulbourethral gland & Bartholin's gland

D. Prostate gland & Skene's gland

**Answer: B**



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**37.** In a pond ecosystem , the shape of a pyramid of number is

A. Linear

B. Irregular

C. Upright

D. Inverted

**Answer: C**



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**38.** A man is suffering from a severe disease which includes symptoms like chills , fever and cough. On close inspection, it is found his fingernails have turned blue. An x-ray of his lungs showed an accumulation of fluid in them. Which of the following pathogens in the causative agent for this disease ?

- A. *Plasmodium vivax*
- B. *Klebsiella pneumoniae*
- C. *Haemophilus influenza*
- D. *Plasmodium ovale*

**Answer: C**



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**39.** Consider the following statements concerning food chains

- (i) Removal of 80% tigers from an area resulted in greatly increased growth of vegetation
- (ii) Removal of most of the carnivores resulted in an increased population of deers
- (iii) The length of food chains is generally limited to 3 - 4 trophic levels due to energy loss
- (iv) The length of food chains may vary from 2 to 8 trophic levels

Which two of the above statements are correct?

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

**Answer: A**



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40. Which of the following is the correct option for decreases order of concentrations of different types of antibodies which are produced in our body ?

- A. IgG, IgA, IgM, IgD, IgE
- B. IgM, IgG, IgA, IgD, IgE
- C. IgE, IgD, IgM, IgA, IgG
- D. IgE, IgD, IgA, IgG, IgM

**Answer: A**



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41. Swollen placenta with many ovules is present in

A. Chilli

B. Aloe

C. Tulip

D. Mullathi

**Answer: A**



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**42.** Find the number of correct match in the following :

I. Cancer : Don't die of ignorance disease

II. Cocaine : called coke or crack is usually snorted

III. Charas : Binds to cannabinoids receptors of CNS & GI tract

IV. Smoking : cause cancer of urinary bladder

V. Hepatitis B : sexually transmitted disease

A. Five

B. Four

C. Three

D. Two

**Answer: C**



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**43.** Which of the following is not correct with respect to a part of the flower and its function ?

A. Sepals are green leaf - like structures which protect the flower after opening.

B. Petals are usually brightly coloured to attracts insects for pollination .

C. Staminodes produce pollen grains.

D. Stigma is the tip of carpel and is the receptive surface for pollen grains.

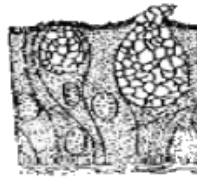
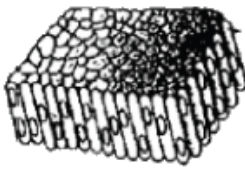
**Answer: C**



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**44.** 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 ?





	Given Figure	Tissue	Location	Function
(1)	(D)	Smooth muscle tissue	Heart	Contraction
(2)	(A)	Columnar epithelium	Nephron	Secretion and absorption
(3)	(B)	Glandular epithelium	Intestine	Secretion
(4)	(C)	Collagen fibres	Cartilage	Attach skeletal muscles to bones

	Gland	Location	Function
A.	Glandular epithelium	Intestine	secretion

**B.**

Gland	Location	Function
Collagen fibres	Cartilage	Attach skeletal muscles to bones

	Gland	Location	Function
C.	Smooth muscle tissue	Heart	Heart contraction

D.

Gland	Location	Function
Columnar epithelium	Nephron	secretion and absorption

**Answer: A**



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**45.** Select the incorrect pair.

- A. Indigofera - Sepals five (Gamosepalous corolla (Vexillary aestivation))
- B. Brinjal - Sepals five united (persistent, valvate aestivation)
- C. Asparagus - Sepals three often united into tube (valvate aestivation)
- D. Colchicine - Perianth present tepals six (valvate aestivation)

**Answer: C**



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**46.** Which of the following glands /structure do not participate in excretion in *periplaneta americana* ?

A. Uricose gland

B. Malpighian tubules

C. Fat body

D. phallic gland

**Answer: D**



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**47.** Match column I with column II and select the correct option from given codes.

Column I	Column II
A. Marginal	(i) Sunflower, marigold
B. parietal	(ii) Pea
C Axile	(iii) Mustard, Argemone
D. Free central	(iv) Hibiscus, Argemone
E. Basal	(v) Dianthus, Primorse

A. A - 1 , B - 2 , C - 4 , D - 3 , E - 5

B. A - 2 , B - 1 , C - 3 , D - 4 , E - 5

C. A - 4 , B - 1 , C - 3 , D - 5 , E - 4

D. A - 5 , B - 2 , C - 4 , D - 2 , E - 3

**Answer: A**



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**48.** Plasma membrane of ..... is known as sarcolemma.

A. Myofibre

B. Myofibril

C. Muscle

D. Fascicles

**Answer: A**



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**49.** Haplodiplontic life cycle is observed in

A. Bryophyta

B. Pteridophyta

C. Most of the Algae

D. Both (a) and ( b)

**Answer: D**



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**50.** Read the statements (A- D).

A. Suture joint is a type of fibrous joint between cranial bones.

B. Myasthenia gravis is an autoimmune disorder.

C. Tetany results in rapid spasms or wild contractions in nerve.

D. Accumulation of uric acid crystals in joints occurs in gout.

How many of the above statements are false?

A. None

B. One

C. Two

D. Three

**Answer: B**



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51. At the stage of generation of action potential, the axolemma is :

- A. Positive outside
- B. Negative outside
- C. Neither positive nor negative
- D. Initially positive than negative

**Answer: A**



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52. Select the incorrect statement from the following.

- A. The dominant phase in the life cycle of pteridophytes is sporophyte
- B. The dominant phase in the life cycle of pteridophytes is gametophyte.
- C. The dominant phase in the life cycle of gymnosperms is gametophyte.
- D. The dominant phase in the life cycle of angiosperms is sporophyte

**Answer: C**



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**53.** Select the incorrect statement .



- A. Efferent neurons Carry impulse from CNS to peripheral tissues .
- B. Granular bodies are found in cytons of neuron.
- C. Unipolar neuron has only dendrite .
- D. Duramater is in contact with cranium.

**Answer: C**



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**54.** Family solanaceae and convolvulaceae belongs to the order

- A. Poales
- B. Polymoniales
- C. Diptera
- D. Dicotichas

**Answer: B**



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**55.** Which of the following hormones stimulates the reabsorption of electrolytes in the kidney ?

A. Arginine

B. TSH

C. ADH

D. ACTH

**Answer: C**



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56. Carbon skeleton produced during respiration is used as precursor for biosynthesis of other molecules in the cell thus respiration is:

- A. Catabolic process
- B. Anabolic process
- C. Amphibolic process
- D. Developmental process

**Answer: C**



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57. Select the incorrect match .

- A. Adrenal cortex - Glucocorticoids

B. Parathyroid glands - 4 in number

C. Hypothyroidism - Cretinism

D. Thymosins - Steroid hormone

**Answer: D**



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**58.** How many molecules of carbon dioxide will be produced if two molecules of Acetyl CoA is Completely oxidized in aerobic respiration ?

A. One

B. Two

C. Three

D. Four

**Answer: D**



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**59.** Which of the following group represents all beneficial elements ?

A. Na, Si, Se, Ag

B. Na, Se, Cu, Co

C. Na, Si, Co, Se

D. Na, Ne, Se, Co

**Answer: C**



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**60.** Read the following statements

A. Zone reticulate form the inner layer of adrenal cortex .

B. Insulin is a peptide hormone secreted by beta cells of pancreas in pancreatic juice .

C. Parathormone and thyroxine are antagonistic hormone .

How many statements are incorrect ?

A. None

B. One

C. Two

D. All

**Answer: B**



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61. Stomata which opens up in night and remains close during day time shows

- A.  $C_3$  pathway
- B. CAM pathway
- C.  $C_4$  pathway
- D. Both (B) and (C)

**Answer: B**



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62. Chlorophyll a is absent in which of the following photosynthetic organism

- A. Cyanobacteria

B. Red algae

C. Brown algae

D. Bacteria

**Answer: D**



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**63.** During photorespiration, the oxygen consuming reaction (s) occur in

A. Stroma of chloroplasts and peroxisomes

B. Grana of chloroplasts and peroxisomes

C. Stroma of chloroplasts

D. Stroma of chloroplasts and mitochondria

**Answer: A**





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64. Which one of the following plant hormones is not correctly matched with its function?

- A. Absciscic acid - Stomatal closure
- B. Gibberellic acid - leaf fall
- C. Cytokinin - Cell division
- D. IAA - Apical dominance

**Answer: B**



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65. The term used for permanent cells that have reobtain meristematic property to perform cell division is

- A. Differentiation
- B. Dedifferentiation
- C. Redifferentiation
- D. determination

**Answer: B**



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**66.** The thallus like body of slime mould is called

- A. Fruiting body
- B. Mycelium
- C. Protonema
- D. Plasmodium

**Answer: D**



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**67.** Which one of the following organisms is not an example of a unicellular eukaryote?

A. Euglena

B. Gonyaulax

C. Amoeba

D. E. coli

**Answer: D**



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**68.** The fungi which are used to produce the product which is also the first stable product of TCA cycle belongs to

- A. Phycomycetes
- B. Ascomycetes
- C. Basidiomycetes
- D. Deuteromycetes

**Answer: B**



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**69.** The bacterial genome consists of

- A. DNA and Histone
- B. DNA or Histone

C. DNA without Histone

D. Neither DNA nor Histone

**Answer: C**



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**70.** Select the incorrectly matched pair.

A. Initiation codon - AUG, GUG

B. Stop codon - UAA, UAG, UGA

C. Methionine - AUG

D. Alanine - ACC, ACU, ACA and ACG

**Answer: D**



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71. UTRs are the untranslated regions present on

- A. rRNA
- B. tRNA
- C. mRNA
- D. hnRNA

**Answer: C**



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72. Hershey-Chase experiment successfully proved DNA to be genetic material. The correct sequence of steps followed in this experiment is

- A. Blending, Infection, Centrifugation

B. Centrifugation, Infection, Blending

C. Infection, Centrifugation, Blending

D. Infection, Blending, Centrifugation.

**Answer: D**



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**73.** Identify the incorrect match.

A. Chlamydomonas - Zoospore

B. Penicillium - Conidia

C. Hydra - Gemmules

D. Amoeba - Binary fission

**Answer: C**



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74. To which of the following parts of a flower, the proximal end of the filament of stamen is attached?

- A. Pedicel or tepals
- B. Thalamus or petal
- C. Sepals or petals
- D. Tepals or sepals

**Answer: B**



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75. Mass of cell enclosed within the integuments in ovule is called

- A. Chalaza



- B. Endosperm
- C. Nucellus
- D. Sporogenous tissue

**Answer: C**



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**76.** Which of the following is correct about the post-fertilization events in flowering plants?

- A. Development of embryo before endosperm.
- B. Endosperm develops before embryo
- C. Both the development of embryo and endosperm occurs simultaneously
- D. All are correct

**Answer: B**



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**77.** Which of the following statement is wrong?

- A. Pollen grain in some plants remains viable for months.
- B. Tapetum nourishes the developing pollen.
- C. Vegetative cells larger than generative cell.
- D. PEN is produced by the fusion of two polar nuclei

**Answer: D**



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**78.** Which of the following group of plants shows entomophily?

A. Vallisneria, Grass, Amorphophallus

B. Amorphophallus, Yucca, Zea mays

C. Wheat, Zostera, Rafflesia

D. Yucca, Ficus, Salvia

**Answer: D**



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**79.** Choose the correct option with regard to statement A and B.

A : Lactic acid bacteria (LAB) are responsible for converting milk into curd.

B : LAB creates acidic medium necessary to coagulate and fully digest the milk proteins.

A. Statements A and B are correct

B. Statement A and B are incorrect.

C. Statement A is correct but B is incorrect

D. Statement B is correct and A is incorrect

**Answer: C**



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**80.** Mendel selected \_\_\_ for his experiment.

A. 14 true breeding pea plant varieties

B. 7 true breeding pea plant varieties

C. 14 hybrid pea plant varieties

D. 7 hybrid pea plant varieties

**Answer: A**



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**81.** Reasons for Mendel's success was.

- (i) His experiments had a large sampling size, thus greater credibility to the data collected.
- (ii) Use of statistical analysis and mathematical logic
- (iii) Considered many characters at a time.
- (iv) Results are confirmed on the successive generation of test plants.

A. i,ii,iii

B. i,ii,iv

C. i,iii,iv

D. All of above

**Answer: B**



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**82.** *Drosophila melanogaster* genome consists of

- A. 3 pair of autosome + one pair of allosome
- B. 2 pair of autosome + 2 pair of allosome
- C. 1 pair of autosome + 3 pair of allosome
- D. 2 pair of autosome + 1 pair of allosomes

**Answer: A**



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**83.** Genotype of male plant is TT and genotype of female plant is tt.

What would be the genotype of endosperm?

- A. TTt
- B. Ttt
- C. Tt

D. tt

**Answer: B**



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

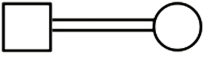
- A. Three alleles, all of which are recessive
- B. Three alleles, of which, two are recessive and the third is dominant
- C. Three alleles, of which two are co-dominant and the third is recessive.
- D. Three alleles, all of which are co-dominant


**Answer: C**





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85. Which one of the following symbols and its representation, used in human pedigree analysis is correct?

A.  = mating between relation

B.  = unaffected male

C.  = unaffected female

D.  = male affected

**Answer: A**



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86. Bioreactors have



- A. Foam control system, temperature control system
- B. Oxygen delivery system
- C. pH control system
- D. All the above

**Answer: D**



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- 87.** Which of the following is not the application of PCR?
- a. Detection of very low concentration of bacteria or virus.
  - b. Detection of mutations in genes in suspected cancer patients.
  - c. Amplification of the desired DNA segment.
  - d. Detection of antibodies synthesized against pathogens.

A. a

B. b

C. c

D. d

**Answer: D**



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**88.** Humulin is a

A. Natural insulin

B. Human insulin synthesized by genetically engineered E. coli

C. Human insulin synthesized by pancreas

D. Chemically synthesized insulin

**Answer: B**



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**89.** How many recombinant therapeutics have been approved for human use all over the world?

A. 10

B. 20

C. 30

D. 90

**Answer: C**



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**90.** Select the mismatch.

A. AIDS - ELISA test (Diagnosis)

B. Filariasis - Wuchereria (Causative organism)

C. Malaria - Anopheles mosquito (Causative agent)

D. Ringworm - Dry, Scaly lesions on skin (Symptoms)

**Answer: C**



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