

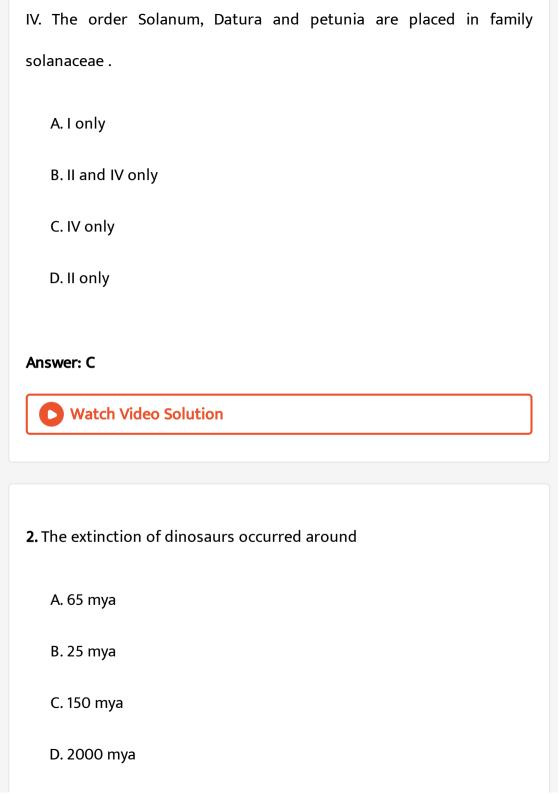
# **BIOLOGY**

## **BOOKS - NTA MOCK TESTS**

# **NTA NEET SET 60**

Biology

- 1. Select the incorrect statement from the following.
- I. NDRI is situated at Lucknow.
- II. Plant families. Like convolvulaceae and solanaceae are included in the order polymoniales mainly based on the floral characters.
- III. All living organisms such as from present, past and future are liked to one another by the sharing of the common genetic material but to varying degrees.



# Answer: A



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- 3. Two kingdom classification dose not distinguish between
  - A. Eukaryote and prokaryote
  - B. Unicellular and multi-cellular organisms
  - C. Photosynthetic (green algae ) and non-photosynthetic (fungi )

organisms

D. All the above

#### **Answer: D**



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4. Find all the incorrect match.

- A. Darwin : Galapagos Island
- B. Wallace : Malay Island
- C. Hugo de Vries: Mutation theory
- D. Lamarck: Big Bang Theory

#### **Answer: D**



- 5. Select the correct statement .
- Statements -I : Thermoacidophiles are obligate anaerobes and heterotrophs.
- Statement -II They used elemental sulfur and product hydrogen sulfide .
  - A. Statement-I is true and statement -II is false
  - B. Statements -II is true and statement I is false
  - C. Both the statement -I and statement -II are false

D. Both the statements -I and statement II - are true

#### **Answer: D**



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- **6.** Which of the following is an incorrect statement?
  - A. Homo erectus live on Earth round 1.5 -1.7 million years ago
  - B. Homo sapiens appeared in African grassland
  - C. Archaeopteryx had characters of birds and reptiles .
  - D. All the Darwin finches were discovered on a single island of Galapagos.

## Answer: D



# 7. Match the following:

Column II Column II

A Chrysophtes i the pigments are identical those of higher plants

B Dinoflagellates ii. float passively in water current

 ${\cal C}$  Euglenoids iii have two flagella

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

B. A - ii , B - i , C - ii

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

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

#### **Answer: D**



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8. Which of the following is not a bacterial disease?

A. Enteric fever

B. Jaundice

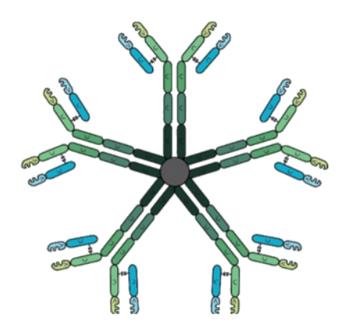
C. Bull neck disease
D. Lock jaw disease
Answer: B
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<b>9.</b> Asexual reproduction in fungus occurs by sp

- ores known as
  - A. Conidiospores
  - **B.** Sporangiospores
  - C. Zoospores
  - D. Any of the above

# **Answer: D**



10. Identify the correct option regarding the structure given below.



A. The given structure is IgM and it is present in the body secretions

.

B. The given structure is IgM which has 10 valency and can bind 10 different antigens.

C. The given structure is IgA, produced during severe infection in the body and binds to allergies.

D. The given structure is IgM produced by B-cells and apparently controls the activity of B-cell .

#### **Answer: D**



11. The number of common characters among organisms

A. Decreases ( Angiospermae to Triticum )

B. Increase ( Monocotyledone to Plantae

C. Increases ( sapindales to Angiospermae)

D. Decreases (poaceae to Plantae)

#### Answer: D

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12. Highest degree of differentiation of the body is reached in

A. Paramecium

B. euglena

C. trpanosoma

D. amoeba

#### **Answer: A**



13. Find the incorrect match.

A. Myometrium: Smooth muscle layer that contracts during parturition

B. Vagina : Lined internally by glands that are shed during menstruation

C. Fundus : common site for implantation

D. Cervix and vagina: Birth canal

#### **Answer: B**



**14.** Which of the following is different from others in the absence of a muscular coat ?

A. Arteries

B. Veins

C. Capillaries

D. Arterioles

# **Answer: C**



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- 15. Polysulphate estate are present in the cell wall of
  - A. Ectocarpus and Dictyota
  - B. Gelidium and Polysiphonia.
  - C. Ectocarpus and Laminaria
  - D. Spirogyra and Chara

# Answer: B



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**16.** Which of the following organ is the responsible for the concentration and storage of bile ?

B. Liver and gallbladder C. Gall bladder and pancreas D. Only gall bladder Answer: D **Watch Video Solution** 17. Which of the following are characteristics of a sporophyte of Bryophytes? I. Multicellular sporophyte. II. Completely or partially dependent on the gametophyte. III. Undergoes a reduction division to from spores. A. II and III B. III and I

A. Only liver

D. All of these
Answer: D
Watch Video Solution
<b>18.</b> Crypts of Lieberkuhn is example for
A. Simple tubular gland
B. Coiled tubular gland
C. Simple alveolar gland
D. Compound alveolar gland
A
Answer: A

C. Only I

19. It is estimated that mainly of thee earth's terrestrial surface is
covered by lichens .

- A. 18~%
- B. 12~%
- $\mathsf{C.}\,8\,\%$
- D.  $4\,\%$

# **Answer: C**



**20.** Which of the following tissue is covered by epimysium , perimysium and endomysium ?

- A. Muscular tissue
- B. Nervous tissue

C. Bones

D. Epithelial tissue

#### **Answer: A**



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**21.** Which of the following sequence is correct with respect to the structure present in Gymnosperm?

A. Strobili  $\, o \,$  Sporophylls  $\, o \,$  Sporangia  $\, o \,$  spores

B. Strobili  $\, o\,$  Sporangia  $\, o\,$  Sporophylls  $\, o\,$  spores

C. Sporophylls  $\;
ightarrow\;$  Strobili  $\;
ightarrow\;$  Sporangia  $\;
ightarrow\;$  Spores

D. Spores  $\, o \,$  Sporangia  $\, o \,$  Strobili  $\, o \,$  Cones

#### Answer: A



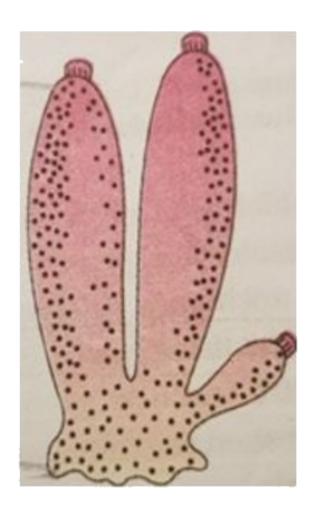
- **22.** The most common or abundant connective tissue of body is
  - A. Areolar connective tissue
  - B. Fluid connective tissue
  - C. Dense connective tissue
  - D. Adipose tissue

#### **Answer: A**



- 23. Which of the following statements is correct about a leaf?
  - A. It has originated from root apical meristem.
  - B. It is arranged in basipetal order.
  - C. It arises from axillary bud.
  - D. It bears a bud in its axil.

# **Answer: D** Watch Video Solution 24. Free-living Platyhelminthes is A. Taenia B. Fasciola C. Tapeworm D. Planaria **Answer: D Watch Video Solution** 25. The amino acid substitution of Val for Glu in Hemoglobin S results in aggregation of the Protein because of ....... interaction between



A. Sycon , porifera

B. Euspongia , porifera

C. Spongilla , Annelida

D. Sycon , Annelida

## Answer: A



**27.** Two special character of a family are given , select the correct option for the character and the name of the family .

- A. Papilionaceous corolla, diadelphous stamen solanaceae
- B. Papilionaceous corolla, diadelphous stamen Fabaceae
- C. Cruciform corolla , diadelphous stamen Fabaceae
- D. Papilionaceous corolla, monodelphous stamen solanaceae

#### **Answer: B**



**28.** The member of this phylum are terrestrial or aquatic having an organ system level organisation bilaterally symmetrical, triploblastic, segmented and eucoelomate animals?

- A. Mollusca
- B. Arthropoda
- C. Platyhelminthes
- D. Echinodermata

#### **Answer: B**



- **29.** Which of the following statements is correct?
  - $\ensuremath{\mathsf{A}}.$  The seed in grasses is not endospermic .
  - B. Mango is a pathenocarpic fruit.

C. A proteinaceous aleurone layer is present in maize grain.

D. A sterile pistil is called a stamionde .

## **Answer: C**



**30.** The process during which the differentiation occurs without any cell division

- A. Spermatogenesis
- B. Spermatocytogenesis
- C. Spermatogenesis
- D. Spermatidogensis

# **Answer: A**



<b>31.</b> Which simple tissue is characterized by pits ?		
A. Collenchyma		
B. Parenchyma		
C. Sclerenchyma		
D. All of these		
Answer: C		
Watch Video Solution		
<b>32.</b> A dorsal and hollow central nervous system is found in		
A. Bufo		
B. Loligo		
B. Loligo C. Dentalium		

#### Answer: A



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- 33. Which of the following statements is incorrect?
  - A. Companion cells help in maintaining pressure gradients in the sieve tubes .
  - B. Phloem parenchyma stores food material.
  - C. Bast fibres are generally absent in the primary phloem but re found in secondary phloem.
  - D. Phloem causes movement of organic substances and minerals only in the direction from leaves to stem and roots .

#### Answer: D



**34.** Which of the following factors contribute to the reduction of the pulmonary volume ?

A. Relaxation of diaphragm

B. Relaxation of the intercostal muscles

C. Return of sternum to their normal positions

D. All of the above

#### **Answer: D**



**35.** Peripheral region of secondary xylem, which is light in color and Which caused conduction of water and minerals is known as

A. Heartwood (duramen )

B. Sapwood (alburnum)

- C. Spring wood
- D. Autumn wood

**Answer: B** 



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**36.** Choose the incorrect match from the following.

- A. Inspiratory capacity = TV + IRV
- B. Expiratory capacity = TV + ERV
- C. Vital capacity = ERV + TV + IRV
- D. Residual volume = TV + (VC IRV)

**Answer: D** 



**37.** Consider the following three statements (A - C) and choose the correct option tow fill the blanks :-

- (A) .....helps to stop substance from leaking cross a tissue .
- (B) In all connective tissue except, ....the cells secrete fibres .
- (C) ..... cell produce and secrete fibrea in connective tissue

A. A= gap junction, B = cartilage , C = macrophase

B. A = tight junction, B= Bones, C= Fibroblast

C. A = tight junction, B= Blood, C = Fibroblast

D. A = Desmosomes , B= Blood , C = Mast cells

#### Answer: C



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**38.** Which of the following glands in our body have its cells arranged in the form of cords ?

A. Gallbladder B. Intestine C. Liver D. Pancreas **Answer: C Watch Video Solution** 39. A structure that is traversing the middle lamella and connecting the cytoplasm of neighbouring cells is called A. Primary wall junction B. Plasmodesmata C. Desmosomes D. Secondary wall

#### Answer: B



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- **40.** The correct sequence of meninges from the inner to the outer side is:
  - A. Duramater  $\;
    ightarrow\;$  arachnoid membrane  $\;
    ightarrow\;$  piamater
  - B. Duramater  $\, \rightarrow \,$  piamater  $\, \rightarrow \,$  arachnoid membrane
  - C. Piamater  $\rightarrow$  arachnoid membrane  $\rightarrow$  duramater
  - D. Arachnoid member  $\rightarrow$  duramater  $\rightarrow$  piamater

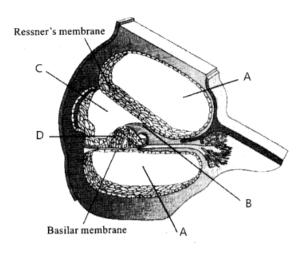
#### Answer: C



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41. The Golgi complex plays a major role

A. in trapping the light and transforming it into chemical energy. B. in digesting proteins and carbohydrates. C. as energy transferring organelles. D. in post translational modification of proteins and glycosidation of lipids **Answer: D Watch Video Solution** 42. Given below is a diagrammatic cross - section of single loop of the human cochlea.



Which one of the following options correctly represents the name of three different parts ?

- A. A Tectorial membrane B Perilymph C Secretory cells D Endolymph
- B. A Endolymph B Secretory hair cells C Serum D Tectorial membrane
- C. A Sensory hair cells B Endolymph C Tectorial membrane D Perilymph

D. A - Perilymph B - Tectorial membrane C - Endolymph D - Organ of

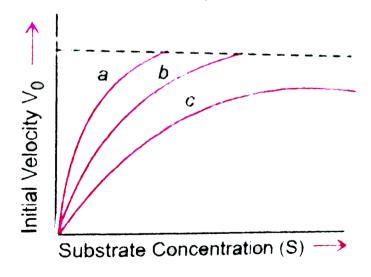
Corti

#### **Answer: D**



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**43.** Figure given below shows three velocity-substrate concentration curves for an enzyme reaxtion. What do the curves for an enzyme reaction. What do the curves depict



A. A - normal enzyme reaction, B - competitive inhibition, C - non competitive inhibition

B. A - enzyme with an allosteric modulator added , B - normal enzyme activity, C - competitive inhibition

C. A - enzyme with an allosteric stimulator, B - competitive inhibitor added, C - normal enzyme reaction

D. A - normal enzyme reaction, B - non - competitive inhibition, C allosteric inhibitor added

# Answer: A



- 44. Given below is a list of features found in a specific tissue.
- (a) unstriped
- (b) fusiform
- (c) nucleated

(d) cannot be controlled directly (e) bundled in connective tissue sheath In which of the following parts would you find layers of this tissue? A. Wall of stomach B. Wall of heart C. Biceps and triceps of arm D. Inside the brain Answer: A **Watch Video Solution 45.** Which one of the following statements is incorrect? A. primary metabolites have identifiable functions. B. Some secondary metabolites have ecological importance.

C. Secondary metabolites like rubber , drugs spices , scents and

pigments are useful to human welfare.

D. Secondary metabolites are not found in fungi, microbes and plants.

#### **Answer: D**



**46.** Which cells in our body exhibit amoeboid movements?

A. Macrophages and leucocytes

B. RBCs and lymphocytes

C. RBCs and histiocytes

D. Leucocytes and platelets

# Answer: A

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**47.** Substrate and product are stable in any enzyme - catalysed reaction.

The transitional states between the stable substrate and the product in the reaction are

- A. stable
- B. unstable
- C. metastable
- D. of higher energy than both substrate and product

# **Answer: B**



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48. Which of the following is not the example of synovial joint?

A. ball and socket joint

- B. hinge joint
- C. pivot joint
- D. sutures

#### Answer: D



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# **49.** Select the correct matching:

Column: I Column: II

- A G1 Phase 1 Maximum growth
- B Cytokinesis 2 Nuclear division
- C Karyokinesis 3 Cytoplasmic division
- D S phase 4 DNA replication
  - A. B 1, C 2, A 3, D 4
  - B. A 1, C 2, B 3, D 4
  - C. D 1, C 2, B 3, A 4
  - D. A 1, D 2, B 3, C 4

# **Answer: B**



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**50.** Which of the following glands consists of two lobes , interconnected with a thin flap of connective tissue ?

- A. Pituitary gland
- B. Thyroid gland
- C. Pineal gland
- D. Parathyroid gland

### Answer: B



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51. As compared to meiosis, in mitosis

A. homologous chromosomes from pairs .				
B. daughters have half chromosomes number .				
C. telophase stage is absent .				
D. the prophase is shorter .				
Answer: D				
Watch Video Solution				
<b>52.</b> If the pituitary gland of an adult rat is surgically removed, which of				
the following endocrine glands will be less affected?				
A. Adrenal cortex				
B. Adrenal medulla				
C. Thyroid				
D. Gonads				

# **Answer: B**



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53. Which of the following is metabolic antitranspirants?

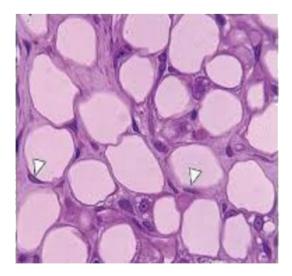
- A. PMA,  $CO_2$
- B. Colorless plastics and waxes
- C. Aspirin, ABA
- D. Both PMA ,  $CO_2$  and Aspirin ,ABA

# **Answer: D**



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**54.** Identify the cross-sectional view of the loose connective tissue given below and select the correct statement.



- A. The cells secrete fibres of structural proteins called collagen.
- B. The collagen fibres are present in rows between many parallel bundles of fibres
- C. It is a reservoir of stored energy.
- $\ensuremath{\mathsf{D}}.$  It serves as a support framework for epithelium beneath the skin .

# **Answer: C**



55. Study the following table showing the components of water

potential in closely arrange mesophyll cells namely A, B and C

Cell Osmotic Potential (MPa) Pressure Potential (MPa)

A - 0.21 0.05

 $egin{array}{cccc} B & -0.22 & 0.02 \ C & -0.23 & 0.05 \end{array}$ 

Identify two of the following , which show the correct direction of

water movement between two cells .

I.~A 
ightarrow B.~IIB 
ightarrow C

 $III.\ C o A.\ IVC o B$ 

A. I ,II

B. II, III

C. I ,IV

D. II,IV

# Answer: C



# **56.** Match the column I with column II and choose the correct option

Column-I	Column- II
A. Inguinal canal	<ol> <li>Network of seminiferous tubules</li> </ol>
B. Rete testes	2. Secondary sexual characters
C. Leydig's cells	3. Far descending of the testis
D. Prepuce	4. Dorsal bundles of muscles
E. Corpora cavernosa	5. Terminal skin of the penis

A.  $\frac{A}{1}$   $\frac{B}{2}$   $\frac{C}{3}$   $\frac{D}{5}$   $\frac{E}{4}$ B.  $\frac{A}{3}$   $\frac{B}{1}$   $\frac{C}{4}$   $\frac{D}{5}$   $\frac{E}{5}$ C.  $\frac{A}{3}$   $\frac{B}{1}$   $\frac{C}{2}$   $\frac{D}{5}$   $\frac{E}{5}$ D.  $\frac{A}{2}$   $\frac{B}{4}$   $\frac{C}{3}$   $\frac{D}{5}$   $\frac{E}{5}$ 

# **Answer: C**



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**57.** Which of the following mineral deficiencies will cause death of stem and root tips ?

C. S
D. Fe
Answer: B
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<b>58.</b> In sugarcane plant , which of the following enzymes is responsible
for the fixation on of $.^{14}\ CO_2$ in malic acid ?
A. Fructose phosphatase
B. Ribulose bisphosphate carboxylase
C. Phosphoenol pyruvic acid carboxylase
D. Ribulose phosphate kinase

A. Mo

B. Ca

# Answer: C



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# **59.** MTP Act is associated with

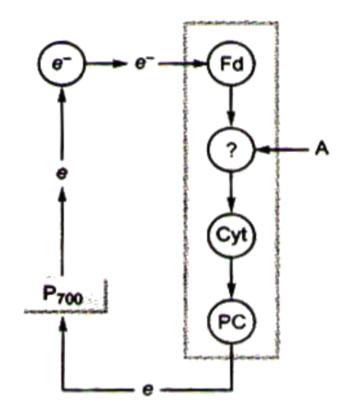
- A. Use of contraceptive
- B. legal termination of pregnancy
- C. Surrogacy
- D. assisted reproductive technique

# **Answer: B**



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**60.** In the given chart of photophosphorylation, what does 'A' represent?



A. PC

B. FRS

C. PQ

D.  $Cyt-a_3$ 

**61.** Progesterone is used as contraceptive as

A. It stimulates the secretion of GnRH

B. It inhibits the secretion of GnRH

C. It promote the synthesis of prolactin

D. it inhibits the development of blastocyst

# Answer: B



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**62.** In which of the following reaction substrate-level phosphorylation occurs during respiration ?

A. Citric acid  $\;
ightarrow \; \alpha$  - ketoglutaric acid

B. Malic acid ightarrow oxaloacetic acid

C. lpha - ketoglutaric acid  $\, 
ightarrow \,$  Succinyl - CoA

D. Succinyl - CoA  $\,
ightarrow\,$  Succinic acid

#### **Answer: D**



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**63.** Which of the following metabolites is commonly produced during the breakdown of fats, Carbohydrates, and proteins?

A. Glucose 6 - phosphate

B. Fructose 1,6 -bisphosphate

C. Pyruvic acid

D. Acetyl-CoA

# **Answer: D**



**64.** To increase sugar production in sugarcanes, they are sprayed with A. IAA B. Cytokinin. C. Gibberellin. D. Ethylene. **Answer: C Watch Video Solution** 65. ABA is involved in A. Shoot elongation B. Increased cell division C. Dormancy of seed

D. Root elongation

# Answer: C



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- **66.** Sexual reproduction , when compared to asexual reproduction , is a
- (A.) Slow process
- (B.) Fast process
- (C.) Simple process
- (D.) Complex process
  - A. A and D only
  - B. A and C only
  - C. B and D only
  - D. B and C only

Answer: A



67. Tetragonal anther consists of

A. One microsporangia

B. Two microsporangia

C. Three microsporangia

D. Four microsporangia

#### Answer: D



by

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68. In angiosperms, female gametophyte is embryo sac which is formed

A. Reduction division in megaspore

B. Equational division in megaspore

C. Reduction division followed by equational division in megaspore mother cell

D. Both (B) and (C)

#### Answer: C



- **69.** In which of the following , kind of pollination the following shows the following characteristic ?
- 1. Stigma is long and feathery .
- 2. The pollens are dry unwettable.
- 3. Flower are colourless and odourless.
  - A. Anemophily
  - B. Hydrophily
  - C. Pollination by bees

D. Pollination by ants
Answer: A
Watch Video Solution
<b>70.</b> The farvourable conditions available for germination are
A. adequate moisture.
B. oxygen
C. suitable temperature

D. All of these

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**Answer: D** 

<b>71.</b> Disease caused by deficiency of phenylalanine hydroxylase enzyme is			
an example of			
A. Multiple allelism.			
B. incomplete dominance .			
C. epistasis.  D. Pleiotropy .			
D. Fleidti opy .			
Answer: D			
Watch Video Solution			
<b>72.</b> Find out the correct statement .			
A. Genetic makeup of the egg determines the sex of the child in			
human.			

B. Genetic makeup of the sperm determines the sex of the child in human.

C. XO and XY type of sex determination is an example of female heterogamety.

D. ZZ and ZW type of sex determination is an example of male heterogamety.

# **Answer: B**



73. In human beings, the colour of skin is controlled by

A. Multiple alleles

B. Lethal genes

C. Polygenic effect

D. None of these

# Answer: C



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**74.** If two genes show 50% recombination frequency, then Which of the following statement is not correct about it?

- A. The genes may be on different chromosomes .
- B. The genes are tightly linked.
- C. The genes show independent assortment.
- D. The genes are present on the same chromosome, they undergo crossing over in meiosis .

# Answer: B



**75.** Menthyl guanosine triphosphate is added to the 5' end of hnRNA in a process of

A. Splicing .

B. Capping .

C. tailing.

D. Cutting .

# **Answer: B**



**76.** The genes are responsible for growth and differentiation in an organism through regualtion of

A. translocation and replication.

B. transcription and transformation.

- C. transduction and translation .
- D. transcription and translation.

#### **Answer: D**



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- 77. The transforming principal in Griffith's experiment was established
  - A. When live S-strain of S. Pneumoniae were injected in mice .
  - B. When live R-strain of S. Pneumoniae were injected in mice.
  - C. When heat-killed R-strain of s.pneumonia were injected in mice.
  - D. When heat-killed S-strain of s.pneumonia were injected with R-

strain in mice

# Answer: D



78. Which vector can clone only a small fragment of DNA?

A. Bacterial artificial chromosome

B. Yeast artificial chromosome

C. Plasmid

D. Cosmid

#### **Answer: C**



# 79. Which of the following is a palindromic sequence?

A. 
$$5'-CGTATG-3'$$

$$5'-GCATAC-3'$$

$$\mathtt{B.5'} - CG\mathtt{AA}TG - 3'$$

$$3'-CGAATG-5'$$

C. 5' 
$$GAA op C - 3'$$

$$3'-C \top AAG - 5'$$

$$\mathsf{D.\,5'} - GACTAC - 3'$$

$$3'-TACGAC-5'$$

#### **Answer: C**



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**80.** A gene whose expression helps to identify transformed cell is known as

A. Vector.

B. restriction enzymes.

C. Structural gene .

D. Selectable marker .

# **Answer: D**



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81. Which of the following is incorrect for the product of transgenic 'Rosie' cow?

- A. It had a protein content of 2.4gm /litre.
- B. It was rich in cholesterol.
- C. It had alpha-lactalbumin protein.
- D. It was nutritionally a more balanced product for human babies than normal cow milk.

# **Answer: B**



82. The organisms which are restricted to a narrow range of salinity are				
known as				
A. Salinosomes				
B. Salinotolerants				
C. Euryhaline				
D. Stenohaline				
Answer: D				
Watch Video Colution				
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83. All the following are examples of commensalism except :				
A. Orchid on mango branch				
5				
B. Cattle egret and grazing cattle				

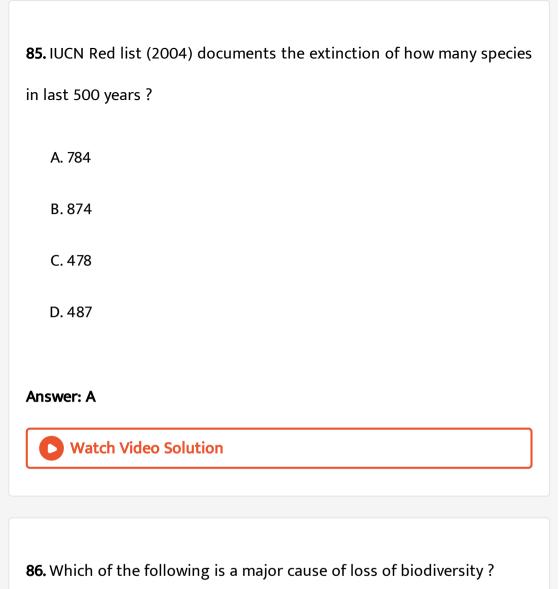
C. Sea anemone and clown fish

D. Cuckoo (koel ) and crow		
Answer: D		
Watch Video Solution		
<b>84.</b> Which one of the following is not a functional unit of an ecosystem		
A. Energy flow		
B. Decomposition		
C. Productivity		

D. Stratification

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**Answer: D** 



A. Habitat loss and fragmentation

B. Over-exploitation

C. Alien species invasion

Answer: A			
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87. Which of the following group exhibit maximum species diversity?			
A. Gymnosperms			
B. Algae			
C. Bryophytes			
D. Fungi			
Answer: D			
Watch Video Solution			

D. Co-extinction

**88.** Which of the following statements is incorrect about electrostatic precipitators ?

A. ESP can remove over 99% particulate matter present in exhaust from a thermal power plant .

B. Collecting plants are grounded, so it is used to attract the charged dust particle.

C. Velocity of at between the plates must be low.

D. Electrodes wires that are maintained at hundred volts produces corona.

# Answer: D



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89. Select the correct statement .

(A) use of incinerators is crucial to the disposal of hospital waste .

- (B) Recycling is the only solution for the treatment of e-waste.
- (C) Fish-eating birds containing 2 ppm DDT become agents of biomagnifications.
- (D) polyblend is a fine powder of bitumen.
  - A. A and B only
  - B. B and C only
  - C. C and D only
  - D. A,B, and C only

# Answer: A



# **Watch Video Solution**

90. The sequence of nitrogen bases in a portion of a DNA segment of a template strand was AAT GCT TAG GCH. What will be the sequence of nitrogen bases in the corresponding region of the transcribed mRNA?

A. UUT CGT TUC CGH

B. AAT GCT TAG GCA

C. UUA CGA AUG CGU

D. TTA CGA ATC CGT

# **Answer: C**

