

# **BIOLOGY**

## **BOOKS - NTA MOCK TESTS**

## **NTA NEET TEST 64**

Biology

**1.** Apogeotropic roots forming an association with BGA are observed in

- A. Cycas
- B. Pinus
- C. Banyan
- D. Peepal

### **Answer: A**



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2. Sweet potato is a modified root. Potato is a modified stem. Both these plants are classified in order

- A. Polymoniales
- B. Sapindales
- C. Poales
- D. Asparagales

### **Answer: A**



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**3.** What type of nucleic acid is found in the viral pathogen that causes mottling and leaf

discoloration in the Nicotiana group of plants

?

A. Double stranded RNA

B. Double stranded DNA

C. Single stranded RNA

D. Single stranded DNA

## **Answer: C**



**4.** From the following list of invertebrates, how many of them are included in the largest marine phylum of animal kingdom?

Star, fish ,sea, urchin , Cuttle fish , Apple snail, Pearl oyster , Anopheles , Culex , Aedes , sea , cucumber , squid , Devil fish

A. 9

B. 8

C. 10

D. 5

#### **Answer: D**



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**5.** Applying the principles of classification given by R.H. Whittaker, Chlamydomonas and Chlorella is added in

- A. Fungi
- B. Protozoa
- C. Protista
- D. Monera



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- 6. Hardwoods have
  - A. more of parenchyma
  - B. Vessels in abundance
  - C. tracheids only
  - D. non-porous nature

**Answer: B** 

- **7.** Which of these statement/s about lichens is/are ture?
- I. Lichens are mutually beneficial symbotic associations.
- II. They grow extensively in area with high pollution, hence called as pollution indicators.
- III. The phycobiont member, algae, is an autotroph and the mycobiont member, fungi, is a heterotroph.

IV. Fungi help the algae harvest sunlight for photosynthesis.

A. II and III

B. I and II

C. I, II and III

D. III and IV

### **Answer: C**



**8.** Determine the animal that has blind sac body plan and intracellular as well as extracellular digestion.

A. Meandrina.

B. Taenia

C. Psittacula

D. Limulus

## **Answer: A**



9.	Select	the	part	of	the	animal	body	with	its
correct tissue type.									

- A. Gonyaular
- B. Chlamydomonas
- C. Trypanosmona
- D. Nostoc



**10.** Select the part of the animal body with its correct tissue type.

- A. Columnar Epithelium Blood vessel
- B. Cuboidal Epithelium Stomach lining
- C. Squamous Epithelium Lung air sac
- D. Ciliated Epithelium Food pipe

### **Answer: C**



44	<b>D</b> I .				•		•
11.	Photosy	unthetic	bacteria	have	nigmer	า†ร	ın
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- A. Chromatophores
- B. leucoplast
- C. Chromoplast
- D. Chloroplast

#### **Answer: A**



**12.** Identify the correct match between the

types of stem modification and their examples.

#### Answer: D

**13.** Cells found in the hypodermal layer of dicot Stem show all of these properties except

A. Possess thickened cell wall

B. are dead at maturity

C. Possess vacuoles for storage of food

D. have cell wall made up to cellulose,

pectin and hemicellulose

Answer: B

14. The stamens are attached the petals in

A. Lily

B. Salvia

C. Brinjal

D. Mustard

**Answer: C** 



**15.** The amount of the Golgi bodies wille be highest in

A. Ciliated epithelial cell

B. Red blood cell

C. Smooth muscle cell

D. Goblet cells

**Answer: D** 



16	. What	are	pitfall	traps	that	are	seen	in	the
me	embrar	?							

- A. Flower
- B. Stem
- C. Leaf
- D. Root



- **17.** Read the following statements about animal tissue . Identify the true and false ones and select the correct option .
- I. Adhering junctions along with cementing cell together facilitate the cells to communicate with each other by connecting the plasma
- II. Compound epithelium covers the moist surface of the buccal cavity. Pharynx and lining of ducts of salivary glands.
- III. The striated muscle fibre is a thin elongated with point ends and multiple nuclei

IV . Cartilage is present in the tip of the nose and between the bodies of adjacent vertebrae.

A. I : True, II: False III: True IV: False

B. I: True II: TrueIII:True IV:False

C. I : FalseII: FalseIII:True IV: False

D. I :True II: FalseIII: False IV:True

### **Answer: A**



- **18.** All the given properties are found in the meristematic cell except
  - A. It shows the ability to actively divide.
  - B. Vacuole is vary large and maybe more than one.
  - C. It shows prominent nucleus and abundant cytoplasm .
  - D. Meristematic cell has a thin cell wall of cellulose.

#### **Answer: B**



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**19.** A student made the following significant observation for the given cell sample. Cell has large quantities of rough endoplasmic reticulum and many Golgi bodies. Which type of cell can it be ?

A. Guard Cell

B. Bacterium

- C. Lymphocyte
- D. Mesophyll



- 20. Seed dormancy may be due to
  - A. immature embroyo
  - B. hard seed coat
  - C. Presence of germination inhibitors

D. all of these

#### **Answer: D**



- **21.** A cell during the educational division of genetic material wille show which of the following events?
- I. interphase
- II. anaphase
- III. cytokinesis

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

## **Answer: D**



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**22.** From the following, the statement /s that will help to determine the specificity of an enzyme is /are:

I. The bonding between R groups of amino acids of the polypeptide II. The optimum pH of the enzyme III. The peptide bonds between amino acids of the polypeptide IV. The shape of the substrate molecule A. I,II,III and IV B. I and III C. I only D. II, III and IV only **Answer: C** 

**23.** Nitrate formation by the following reaction is accomplished by

$$2NO_2^- + O_2 
ightarrow 2NO_3^-$$

A. Nitrococcus

B. Nitrosomonas

C. Nitrobacter

D. Thiobacillus or Pseudomonas

Answer: C

**24.** Determine the process that will occur based on the given information regarding two adjacent cells .

Parameters Cell X Cell Y
Osmotic pressure 8 units 12 units
Turgor pressure 6 units 8 units

- A. Water will move from Cell Y to X
- B. Water will show no movement.
- C. Water will move from Cell X and Y
- D. Solute will move across both the cells.



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## 25. A biocatalyst

- A. decreases the activation energy and decreases the energy yield
- B. increase the activation energy and increases the energy yield

C. decreases the activation energy and has

no effect on the energy yield

D. increases the energy yield and decreases the activation energy

### **Answer: C**



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**26.** A given sample of somatic cell was treated with chemical X. it was found that chemical X inhibits chromatid separation . During somatic

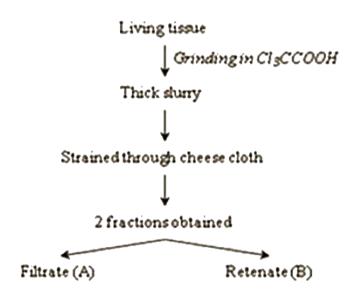
cell division process, the treated cell will reach which stage of division before being interrupted?

- A. Anaphase
- B. Metaphase
- C. Telophase
- D. Cytokinesis

**Answer: B** 



**27.** Given below is the process to separate the contents of a living tissue by acid treatment and a list of certain observations. Segregate the observations under filtrate (A) and retentate (B) and select the correct combination.



1. Molecular weight ranging from 18 - 800

- daltons approx.
- 2. Proteins, nucleic acids, polysaccharides and lipids
- 3. Chemicals more than 800 daltons molecular weight
- 4. Has monomers
- 5. Generally has polymers
  - A. A: 1,2,3 and B: 4,5
  - B. A: 2,4 and B: 1,3,5
  - C. A: 1,4 and B: 2,3,5
  - D. A: 1,3,5 and B: 2



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**28.** Secondary growth brought about by vascular cambium in dicots is a type of

- A. Senescence
- B. Geometric growth
- C. Arithmetic growth
- D. Plasticity



- **29.** Determine the correct sequence of the process of nutrition in a human being .
- A. Mastication of food and formation of bolus
- B. Production of chyme
- C. Deglutition
- D. Passage of unabsorbed , undigested substances to the caecum

E. Digestion in the most coiled part of alimentary canal

A. A ,C, E, B, D

B. A , E , C, B, D

C. A , C B E , D

D. A ,B ,C ,E ,D

## **Answer: C**



**30.** Acid concentration in CAM plants is more at

A. day time

B. night

C. dawn

D. dusk

**Answer: B** 



**31.** Which of the following processes produce the maximum amount of ATP on the aerobic breakdown of one molecule of glucose?

- A. Glycolysis
- B. Kreb's
- C. Electron transport system
- D. Fermentation

**Answer: C** 



**32.** The difference shown in the morphology of leaf during the developmental stages will be in

- A. Cotton and brinjal
- B. Cotton and Larkspur
- C. Brinjal and tomato
- D. Larkspur and mango

## **Answer: B**



**33.** Identify the biocatalyst that helps in obtaining the connecting link between glycolysis and Kreb's cycle.

- A. Pyruvate carboxylase
- B. Malate dehydrogenase
- C. Pyruvate dehydrogenase
- D. Acetyl CoA dehydrogenase

## **Answer: C**



**34.** In the hypothesis given by peter Mitchell, where will we observe the accumulation of hydrogen ions (Protons ) in the cell?

- A. Mitochondria matrix
- B. Lumen of thylakoids
- C. Stroma
- D. On the thylakoid membrane

## **Answer: B**



- **35.** Which of these will be seen in our respiratory system?
- I. The absence of cartilage in small bronchioles allows them to expand .
- II. The walls of the alveoli are made of cuboidal epithelium .
- III. The recoil of the elastic fibres surrounding the alveoli helps to move air out during expiration.
- IV. The trachea and bronchi are supported by circles of cartilage.

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

## **Answer: B**



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36. The following are some statements about

leucocytes. Which of these is incorrect?

The most abundant leucocyte is

granulocyte, whereas the least abundant leucocyte is an agranulocyte.

II. The largent leucocyte is a granulocyte, whereas the smallest leucocyte is an agranulocyte.

III. Phagocytic leucocytes may be agranulocyte or granulocyte.

IV. Polymorphonuclear leucocytes are the largest granuocyte, whereas the largest agranulocyte has a kidney-shaped nucleus.

A. I, II and III

B. II and IV

C. III and IV

D. I and II

**Answer: D** 



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**37.** The correct order of response of organs for increasing blood pressure is

A. Kidney - Liver - Lungs - Adrenal gland -

Kidney

B. Kidney - Lungs - Liver - Adrenal gland kidney

C. Kidney - Liver - Adrenal gland - Lungs - kidney

D. Kidney - Lungs - Adrenal gland - Liver - kidney

Answer: A



# **38.** Match the following and choose the correct option .

	Column-I		Column- II
(A)	Ball and socket	(1)	Carpal and metacarpal of the thumb
(B)	Hinge	(2)	Atlas and axis
(C)	Pivot	(3)	Frontal and parietal
(D)	Saddle	(4)	Knee
		(5)	Humerus and pectoral girdle

A. 
$$A = B = C = D$$
5 4 2 1

B.  $A = B = C = D$ 
1 3 4 5

C.  $A = B = C = D$ 
5 4 3 1

D.  $A = B = C = D$ 
1 2 5 4

**Answer: A** 

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**39.** Which of the following regions of the brain is incorrectly paired with its function

A. Medulla oblongata - homeostatic control

B. Cerebellum - language comprehension

C. Corpus callosum - communication

between the left and right cerebral

cortices

D. Cerebrum - calculation and

contemplation

## **Answer: B**



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**40.** Select the correct description regarding the chemical messengers released by glands found on top of kidney.

A. Aldosterone stimulates the reabsorption  $\mbox{ of } K^+ \mbox{ and water from the renal}$   $\mbox{tubules}.$ 

B. Cortisol is a major glucocorticoid.

C. Glucocorticoids promote cellular uptake and utilisation of amino acids.

D. Androgens helps in the maintenance of body fluid volume and osmotic pressure only.

## Answer: B

**41.** Which of the following is correct for lens focusing, while seeing distant object?

A. Tightly stretched suspensory ligament and rounded lens

B. Contracted cilliary muscles and rounded lens

C. Relaxed cilliary muscles and tightly stretched suspensory ligament

D. Contracted cilliary muscles and relaxed suspensory ligaments

**Answer: C** 



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**42.** In which of the following joints will restricted movement be observed?

A. Joint present between flat skull bones

B. Joint present between adjacent

vertebrae

C. Joint present between humans and pectoral girdle.

D. Knee joint

Answer: B



**43.** A and B are peptide hormones, known to counteract each other. Both of them are secreted by different cells of the same leaf-like organ found near thee stomach. If B is used to cure a disease in which glucose is lost via urine and excess A is a potential causes of the same diseases, identify A and B

- A. A: insulin, B: glucagon
- B. A: Somatostatin, B: insulin
- C. A: glucagon, B: insulin

D. A: insulin, B: Somatostatin

## **Answer: C**



- **44.** In these following correct statement about the heart are
- I. The sino-atrial node (SAN) is present in the right top corner of the right atrium
- II. Ligamentum arteriosum connects the aorta and pulmonary trunk.

III. Purkinje fibres constituent a portion of the bundle of His .

IV. The pulmonary trunk connects the right ventricle to the lungs

A. I and II

B. II and IV

C. I ,II and IV

D. I,II and III

## **Answer: A**



45. Vital capacity is a sum of

A. inspiration capacity and expiratory capacity

B. tidal volume , inspiratory reserve volume and expiratory reserve volume

C. tide volume , inspiratory reserve volume and residual volume and expiratory reserve volume

D. residual volume , inspiratory reserve volume and expiratory reserve volume

**Answer: B** 



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**46.** Find the old one from the following.

A. Glucocorticoids , Mineralocorticoids , sexcorticoids

B. Norepinephrine, Epinephrine, Adrenalin

- C. Relaxin, Oestrogen, progestogen
- D. Insulin, Glucagon, Thymosin

## **Answer: D**



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**47.** Select the statements that is correct regarding arrhenotoky and thelytoky.

A. In arrhenotoky , only males are produced

by parthenogenesis, while in thelytoky

- only females are produced by parthenogenesis.
- B. In arrhenotoky , only females are produced by parthenogenesis , while in thelytoky only males are produced by parthenogenesis .
  - C. In arrhenotoky, only either males or females are produced by parthenogenesis, while in thelytoky only

females are produced by parthenogenesis .

D. In arrhenotoky, only males are produced by parthenogenesis, while in thelytoky either males or females are produced by parthenogenesis.

## Answer: A



**48.** Which of these statements will be largest in size ?

A. entomophilous

B. hydrophilous

C. ornithophilous

D. anemophilous

**Answer: C** 



**49.** To enhance the change of pollination ,which of the following is provided by Amorphophallus to the pollinating agent ?

- A. floral oils
- B. pollen grains
- C. nectar
- D. Safe place to lay eggs

## **Answer: D**



- **50.** Determine the incorrect statement regarding the process of female gamete production .
- I. The oogonia keep on adding in the overy till menopause .
- II. The primary oocytes are halted are prophase -I of meiotic division .
- III. The fluid-filled cavity present in the secondary follicles is called the atrium.
- IV. The secondary oocyte forms a membrane called zone glomerulosa around it.

## A. II, III and IV

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

## **Answer: B**



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**51.** Oral birth control pill which is not a steroid is

A. MALA - D

- B. Ampicillin
- C. MALA-N
- D. Saheli

## **Answer: D**



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**52.** When transfer of pollen grains occurs over the surface of water , it is called

A. Entomophily

- B. Epihydrophily
- C. Hypohydrophily
- D. Myrmecophily

## **Answer: B**



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**53.** With respect to blood groups, the person having \_\_\_\_blood group is definitely heterozygous.

- A. A
- B. B
- C. AB
- D. O

## **Answer: D**



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**54.** The assisted reproductive technology process called 'GIFT' uses

- A. Transfer of zygote into the fallopian tube
- B. Transfer of zygote into the uterus
- C. Transfer of ovum collected from donor to the ll fallopian tube
- D. Transfer of ovum collected from donor to the uterus

## **Answer: C**



55. In Mendelian dihybrid cross when heterozygous round Yellow are self crossed, Round Yellow are self crossed, Round Green offsprings are represented by the genotype

- A. RrYy, RrYY, RRYy
- B. Rryy, RRyy, rryy
- C. rrYy, rrYY
- D. RrYY, RRyy

## **Answer: D**



**56.** The wrong statement about fertilization /post fertilization change in humans is

A. Fertilisation can occur only if sperm and ovum simultaneously reach the ampulla of the fallopian tube .

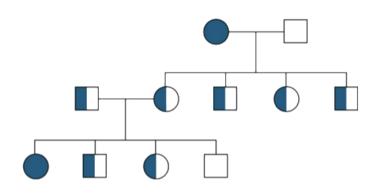
B. During fertilisation, the sperm comes in contact with cell membrane of the ovum

- C. The division of the morule leads to the formation of blastocyst.
- D. The embryo is formed by the the embryo is formed by the differentiation of inner cell mass

## Answer: B



**57.** The given pedigree chart shows the Inheritance of which of the following Mendelian disorders?



A. Autosomal dominant trait - myotonic dystrophy

- B. Autosomal recessive trait haemophilia
- C. Autosomal recessive trait sickle cell

D. Autosomal dominant trait - cystic

fibrosis

**Answer: C** 



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**58.** Alpha globin production for haemoglobin is controlled by

A. one gene location on chromosome 11

B. one gene location on chromosome 16

- C. two gene location on chromosome 11
- D. two gene location on chromosome 16

**Answer: D** 



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**59.** In which part of the sperm will we find a huge quantity of organelles nickname 'powerhouse of the cell'

A. The head

- B. The neck
- C. The tail
- D. The middle piece

#### **Answer: D**



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**60.** Apomixis in which the nucellar tissue cells from embryos is shown by -

A. apple

- B. litchi
- C. lemon
- D. Strawberry

#### **Answer: C**



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**61.** Which of the following laws do not show any deviation ?

A. Law of dominance

- B. Law of purity of gametes
- C. Law of independent assortment
- D. None

#### **Answer: B**



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**62.** Which of the following description of eye colour is true for fruit fly?

- A. White eye colour is dominant over red eye colour and its gene is located on autosome.
  - B. Red eye colour dominant over red eye colour and its gene is located on autosome
  - C. White eye colour is dominant over red eye colour and its gene is located on the X chromosome.

D. Red eye colour dominant over red eye colour and its gene is located on the X chromosome.

# **Answer: D**



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**63.** How many nuclei are involved in the process of Fertilization in the flowering plants

- A. 4
- B. 6
- C. 5
- D. 7

# **Answer: C**



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**64.** Which of these is a Non-infectious and non-communicable disease?

- A. Anthrax
- B. Malaria
- C. Rheumatoid arthritis
- D. Tuberculosis

# **Answer: C**



- 65. Select the correct sequence of events in a sewage treatment process.
  - A. Passages of primary effluent into large

aeration tanks for mechanical agitation and pumping or air .

B. Passage of effluent into the settings tank and formation of activated sludge.

C. Physical removal of particles thought filtration and sedimentation .

D. Release of effluent from the secondary temperature plant into natural water bodies.

E. Growth of useful aerobic microbes into flocs which significantly reduce the BOD.

A. A,C,B,E,D

B. A,B,C,D,E

C. C,A,E,B,D

D. C,E,A,B,C

**Answer: C** 



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**66.** Where will be the human insulin found in the genetically altered prokaryote ?

A. Genetically engineered bacterial

cytoplasm

- B. Genetically engineered bacterial nucleus
- C. Human liver having the modified bacteria
- D. Human pancreas having the modified bacteria

# Answer: A



**67.** Hydrarch succession and Xerarch succession doesn't differ in

- A. Pioneer species.
- B. Seral stages.
- C. Climax community.
- D. area where succession begins.

# **Answer: C**



- **68.** Read the following statements about genetically engineered plants. Select the ones that are advantageous .
- I. The increased yield from genetically engineered plants allows a smaller area of land to be farmed.
- II. Generally engineering plants may have improved nutritional value.
- III. Some plants can be genetically modified to give resistance to diseases.
- IV. There is more research needed on the long term effects of genetically engineered crops on the environment

V. The use of genetically engineered crops may explain the increase in allergies in children

- A. I ,II and III only
- B. III ,IV and V only
- C. II,III and V only
- D. I,IV , and V only

# **Answer: A**



**69.** Which of the following is commonly called baker's yeast'?

A. A rod-shaped bacterium Lactobacillus.

B. An eukaryote S. cerevisiae.

C. A spherical bacterium staphylococci.

D. A spherical bacterium staphylococci.

#### **Answer: B**



**70.** Which of the following is found in highest percentage in dry biomass ?

- A. Water
- B. Carbon
- C. Hydrogen
- D. Nitrogen

**Answer: B** 



**71.** Which of the following attribute inhibits uncontrolled growth and thus prevents a cell from turning cancerous ?

- A. Metastasis
- B. Malignancy
- C. Contact inhibition
- D. Inhibition

#### **Answer: C**



**72.** The total dry weight accessible to heterotrophs in an ecosystem will from the :

- A. Gross primary productivity
- B. Net primary productivity
- C. Secondary productivity
- D. Tertiary productivity

**Answer: B** 



- **73.** Read the given Statements regarding immunization and select the option that identifies the correct ones .
- I. The principal of vaccination is based on the memory of the immune system .
- II.The antibodies produced in the body against antigens neutralise the pathogenic agents before the actual infection.
- III. Hepatitis B vaccine is prepared by using a virus in recombination DNA technology.
- IV. Antibiotics are given directly in elicit a quick immune response.

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

# **Answer: D**



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**74.** An example of a disease caused by the prokaryotic pathogen is

- A. red rot of sugarcane.
- B. late blight of potato .
- C. black rot of crucifers.
- D. brown rust of wheat .

# **Answer: C**



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**75.** Which of the following statements correctly describes the competitive release?

- A. Inability of two species to co-exist indefinitely and eventual elimination of the competitive inferior species.
- B. Avoidance of competition between species competing for same resources figuring a compromise .
- C. Expansion of distribution of a species restricted to a small area due to competitively superior species being experimentally eliminated .

D. Evolutionary success in devising a mechanism to counter and neutralize competition .

#### **Answer: C**



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**76.** The correct chronological arrangement of the following event is

A. In India, the Air (Prevention and control of pollution) Act was amended to include noise

as an air pollutant.

B. The government of India passed the water (
Prevention and control of pollution ) Act toe
safeguard our water resources.

C. Recognising the deleterious effects of ozone depletion , the Montreal protocol become effective.

D. The National Forest policy of India recommended 33 per cent forest cover for the plains and 67 per cent for the hills.

A. A - B - D - C

B. B - A - D - C

C. B - A - C - D

D. A - B - C - D

# **Answer: B**



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**77.** Depending on the quantity of minerals, select the option that has the soil types in correct ascending order.

A. Silt < Clay < Fine sand

B. Clay < Silt < Fine sand

C. Fine sand < Clay < Silt

D. Silt < Fine sand < Clay

# **Answer: B**



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**78.** Determine the correct statement from the given option with respect to an electrostatic precipitator .

- A. the velocity of air is very fast so that a large volume of air can be purified at a time.
- B. the electrode wires maintained at several thousand volts produces a corona which releases positively charged particles.
- C. air is passed through a spray of water and lime.

D. Collecting plates are grounded and

collect negative charged dust particles.

Answer: D



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**79.** In which of the following region , exonuclease will cute the DNA?

A. Within the Polynucleotide chain.

B. At end of the polynucleotide chain

C. At particular recognition sites on Polynucleotide.

D. At end of the polypeptide chain.

# **Answer: B**



**80.** The correct order of fossils from lowest cranial capacity to highest cranial capacity is

A. Java man  $\rightarrow$  Homo habilis  $\rightarrow$ 

Neanderthal man

B. Homo habilis ightarrow Java man

Neanderthal man

C. Neanderthal man  $\rightarrow$  Homo habilis  $\rightarrow$ 

Java man

D. Homo habilis  $\rightarrow$  Neanderthal man  $\rightarrow$ 

Java man

# **Answer: B**



**81.** How much amount of the total oxygen is contributed by the Amazon forest in the earth's atmosphere?

- A. One-third
- B. One-fourth
- C. One-fifth
- D. One-sixth

# **Answer: C**



- **82.** Which step of protein synthesis is performed by the ribosomes ?
  - A. Assemble amino acids in a chain
  - B. Carry a copy of a gene to the cytoplasm
  - C. Contain the code for thee synthesis of a protein
  - D. Determine the order of bases in the protein

# **Answer: A**



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**83.** ......has been found to have sub-species namely, Bali, Javan, and, Caspian

- A. Panthera leo
- B. Panthera tigris
- C. Panthera pardus
- D. Acinonyx jubatus

#### **Answer: B**



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# 84. Ti plasmid is found in

A. Escherichia coli

B. Bacillus thuringiensis

C. Staphylococcus aureus

D. Agrobacterium tumefaceins

**Answer: D** 

- **85.** Read the below Statements about the structure of genetic material and identify the correct ones.
- I. Adenine and guanine are bases that have a double ring structure, cytosine, thymine and uracil are based with a single ring structure.II. An adenine nucleotide from DNA is the same

as an adenine nucleotide from RNA, DNA adenine pairs with uracil and RNA adenine pairs with thymine.

III. The base pairing that occurs in a double DNA helix and when RNA is synthesised during transcription follows the rule that a purine pairs with a pyrimidine.

IV. The two Polynucleotides on a DNA molecule run in opposite directions so that the double helix formed has two strands that are parallel to each other.

A. I,II and III only

B. I,II and IV only

C. II,III and IV only

D. I,III and IV only

#### **Answer: D**



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86. In Miller's experiment, ....... Was not used

- A. Methane
- B. Hydrogen
- C. Water vapour
- D. Nitrogen

#### **Answer: D**



- **87.** Genetic engineering is involved in :
- I. Inserting a gene from Bacillus thuringiensis into cotton.
- II. Selective breeding to produce cattle with high milk yields .
- III. Using herbicides to kill unwanted plants.
- IV. Using insecticide to kill insect pests.

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

# **Answer: D**



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**88.** Which of the following is the most effective way to conserve plant diversity of an area?

- A. Tissue culture
- B. Botanical garden
- C. Biosphere reserves
- D. Seed banks

# **Answer: C**



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**89.** The anticodon of tRNA coding for alanine was found to be CGH . What will be the triplet sequence on the anti-sense strand of DNA?

- A. CAU
- B. GTA
- C. CGT
- D. GUA

# **Answer: C**



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**90.** Theory of organic of species by Darwin and

Wallace doesn't explain all of these except

- A. arrival of the fittest.
- B. the development of vestigial organs
- C. over specialization of some organs like tusk of elephants
- D. the cause of struggle for existence.

#### **Answer: D**

