



## BIOLOGY

### BOOKS - NTA MOCK TESTS

#### NTA NEET SET 107

#### Biology

1. Scutellum is part of

- A. embryo
- B. endosperm
- C. Seed coat
- D. Pericarp

**Answer: A**



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2. The unit of classification containing concrete biological entities is

- A. taxon
- B. Species
- C. Category
- D. order

**Answer: B**

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3. Clostridium tetani produce a toxin . It affects

- A. jaw bones
- B. involuntary muscles
- C. voluntary muscles

D. both voluntary and involuntary muscles

**Answer: C**



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4. Which of the following is non-flagellate in nature ?

A. Chlorella

B. Ulothrix

C. Spirogyra

D. All of the above

**Answer: D**



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5. Important site for formation of glycoproteins and glycolipids is

A. SER

B. Golgi apparatus

C. lysosome

D. mitochondria

**Answer: B**



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6. A somatic cell that has just completed has just completed the S-phase of its cell cycle, as compared to gamete of the same species, has

A. twice the number of chromosomes and gamete the amount of DNA

B. the same number of chromosomes and twice the amount of DNA

C. twice the number of chromosomes but twice the amount of DNA

D. four times the number of chromosomes and twice the amount of DNA

**Answer: C**



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**7. Select the correct statement**

- A. The filaments of the anther in pea plant fuse together to form a single bundle . This is called a monadelphous condition.
- B. Generally , dicot seeds are endospermic , but some like castor are non-endospermic
- C. When a flower can be divided into two similar halves only in one particular vertical plane , it is actinomorphic
- D. In mango and coconut fruit develops from a monocarpellary superior ovary

**Answer: D**



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8. Which of the following options correctly shows the sequence of different tissues from the periderm starting from periphery?

- A. Phellogen phellem phelloderm
- B. phellem phelloderm Phellogen
- C. phellem Phellogen phelloderm
- D. phelloderm Phellogen phellem

**Answer: C**



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9. The absorbed water can rise to the highest point by

- A. root pressure
- B. imbibitions force
- C. force of capillary

D. transportation pull

**Answer: D**



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10. In root nodules, leghaemoglobin

- A. helps in translocation of minerals
- B. acts as an oxygen scavenger
- C. acts as a catalyst in transamination
- D. transport Oxygen of root nodule

**Answer: B**



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D. dehydrogenase

**Answer: B**



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**13.** Biennials get changed into annuals by

A. hormones

B. photoperiodism

C. grafting

D. vernalization

**Answer: D**



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14. A group of fungi with septate mycelium and sexual reproduction either absent or not known is

- A. Phycomycetes (algal fungi )
- B. Basidiomycetes (club fungi )
- C. Deuteromycetes (imperfect fungi )
- D. Ascomycetes (sea fungi )

**Answer: C**



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15. In Phaeophyceae, the spores (zoospores) are

- A. pyriform and bear 2 flagella (one longitudinal and another transverse )
- B. pear-shaped and bear 2 flagella that are laterally attached
- C. pyriform and bear 2-8, equal and apical flagella

D. pear-shaped and bear 2-8 , equal and apical flagella

**Answer: B**



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**16.** The cell which lacks cytoskeleton is

- A. prokaryotic bacteria cells
- B. eukaryotic plant cells
- C. both (a) and (b)
- D. prokaryotic and eukaryotic animal cells

**Answer: A**



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**17.** The chromosomes become invisible in

A. mitosis

B. amitosis

C. mitosis

D. all the three

**Answer: B**



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**18.** How many plants in the list given below have composite fruits that develop from an inflorescence. Walnut, poppy, radish, fig, pineapple, apple, totato, mulberry.

A. Five

B. two

C. three

D. four

**Answer: C**



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**19.** Epidermal tissue system is derived from

- A. protoderm
- B. procambium
- C. periblem
- D. plerome

**Answer: A**



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**20.** Bacteria that live in most harsh habitats are

- A. eubacteria

B. cyanobacteria

C. mycoplasma

D. archaebacteria

**Answer: D**



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21. Hydrogen for the synthesis of organic compounds in photosynthesis comes from

A.  $NADH_2$

B.  $FADH_2$

C.  $H_2O$

D.  $CO_2$

**Answer: C**



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22. Select the WRONG statement .

- A. When tripalmitin is used as a substrate in respiration , the RQ is 0.7
- B. The intermediate compounds which links glycolysis with Kreb's cycle is malic acid.
- C. One glucose molecule yields a net gain of 36 ATP molecules during aerobic respiration .
- D. One glucose molecule yields a net gain of 2 ATP molecules during fermentation .

**Answer: B**



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23. Bakane disease leads to the discovery of which phytohormone (PGR)

- A. Abscisic acid (ABA)

B. Indole acetic acid (IAA)

C. Gibberellic acid (GA)

D. Indole butyric acid (IBA)

**Answer: C**



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**24.** Whittaker's system of classification implies that unicellular eukaryotes are primarily precursors of the

A. Plants

B. fungi

C. animals

D. Plants , fungi and animals

**Answer: D**



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25. Basal bodies are associated with the formation of :

- A. phragmoplast
- B. cilia and flagella
- C. cell plate
- D. Kinetochore

**Answer: B**



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26. Which of the following statements regarding the structure of proinsulin and mature insulin are not correct ?

- (i) Proinsulin is made up of three polypeptide chains -A,B and C
- (ii) c- polypeptide chain with 33 amino acids is removed prior to insulin formation
- (iii) Mature insulin is made up of 51 amino acids arranged in two

polypeptide chain -A and B

(iv) Polypeptide chain A has 30 amino acids and polypeptide chain B has 21 amino acids

(v) Polypeptide chains A and B are interconnected by only one S-S linkage.

A. (i) and (ii)

B. (iii) and (iv)

C. (iv) and (v)

D. (iii), (iv) and (v)

**Answer: C**



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**27.** Dense regular connective tissue is present in

A. tendon

B. ligament

C. skin

D. both

**Answer: C**



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**28.** Haploid cells found within the seminiferous tubules of the testis are

- A. spermatogonia and spermatids
- B. Secondary spermatocytes and spermatids
- C. Secondary spermatocytes and primary spermatocytes
- D. Spermatids and primary spermatocytes

**Answer: B**



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**29.** A mosquito borne viral disease is

A. malaria and change disease

B. Yellow fever and dengue

C. filariasis and typhus

D. Kala-azar and diphtheria

**Answer: B**

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**30.** In which one of the following the genus name , its two characters and its class / phylum are correctly matched ?

	<b>Genus name</b>	<b>Two characters</b>	<b>Class/Phylum</b>
(1)	<i>Aurelia</i>	(a) Cnidoblasts (b) Organ level of organization	Coelenterata
(2)	<i>Ascaris</i>	(a) Body segmented (b) Males and females distinct	Annelida
(3)	<i>Salamandra</i>	(a) A tympanum represents ear (b) Fertilization is external	Amphibia
(4)	<i>Pteropus</i>	(a) Skin possesses hair (b) Oviparous	Mammalia

A.

Genus Two characters

Salamandra (i) A tympanum represents ear (ii) Fertilization is ext

B.

Genus Two characters

Class / phylum

Pteropus (i) Skin possesses hair (ii) Oviparous Mammalia

C.

Genus Two characters

Aurelia (i) Cnidoblast(ii) Organ level of organ level of organization

D.

Genus Two characters

Class

Ascaris (i) Body segmented (ii) Males and females distinct

Ann

**Answer: A**



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**31.** Which of the following sets of inner ear parts comprises of hair cells?

A. organs of corti and vestibular apparatus

B. Crista ampullaris and organs of corti

C. mucula and organ of corti

D. tectorial membrane and ampulla

**Answer: B**



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**32.** When a neuron is in resting state i.e. not conducting any impulse, the axonal membrane is

A. Comparatively more permeable to  $Na^+$  ions and nearly impermeable to  $K^+$  ions

B. Equally permeable to both  $Na^+$  and  $K^+$  ions

C. Impermeable to  $K^+$  ions and  $Na^+$  ions

D. Comparatively more permeable  $K^+$  to ions and nearly impermeable to  $Na^+$  ions

**Answer: D**

**33.** Identify the hormone with its correct matching of source and function

:

- A. Atrial natriuretic factors - ventricular wall, increases the blood pressure.
- B. Oxitocin- posterior pituitary , growth and maintenance of mammary glands
- C. Melatonin - pineal gland, regulates the normal rhythm of sleep - wake cycle
- D. Progesterone - corpus luteum, stimulation of growth and activities of female secondary sex organs

**Answer: C**

**34.** Common features of striated and faintly striated cardiac muscles are

(a) presence of troponin.

(b) Use of  $Ca^{2+}$  muscle contraction.

(c) Vasclarity Gap junctions. Control by visceral Nervous system (ANS).

Which of these features are correct?

A. (b), (c) , (d) & (e)

B. (a), (b) & (e)

C. (a), (b) & (c)

D. (a), (b) , (c) & (d)

**Answer: C**



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**35.** Which of the following statement is Not true with respect to tubectomy?



- A. It is more difficult than vasectomy and is even more difficult to reverse.
- B. No ovulation occurs after the tubectomy, hence no fertilization
- C. It involves ligation of both fallopian tubes
- D. The failure rate of this method is almost zero

**Answer: B**



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**36. Abiogenesis or spontaneous generation means :**

- A. Origin of life from living organism
- B. Origin of life from non living organism
- C. Origin of viruses and microbes
- D. Origin of life from outer space

**Answer: B**



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37. Which of these is not required in PCR?

- A. Primer
- B. Template
- C. Taq polymerase
- D. Methylase

**Answer: D**



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38. Mark the right statement among the following.

- A. Trypsinogen is an inactive enzyme
- B. Trypsinogen is secreted by the intestinal mucosa.
- C. Enterokinase is secreted by the pancreas.

D. Bile contains trypsin.

**Answer: A**



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**39.** How many structures among the following are lined by squamous epithelium?

- a) Inner visceral layer of Bowman's capsule,
- b) Outer parietal layer of Bowman's capsule
- c) proximal convoluted tubule ,
- d) Thin segment of descending limb of Henle's loop,
- e) Thick segment of ascending limb of Henle's loop,
- f) Distal convoluted tubule, and
- g) Collecting duct.

A. 2

B. 3

C. 4

D. 5

**Answer: B**



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**40.** The percentage of nucleic acids present in a cells is

A. 1 %

B. 5 – 7 %

C. 2 – 3 %

D. 70 – 90 %

**Answer: B**



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**41.** Asthma is characterised by

A. Spams in bronchial muscle

B. Alveolar wall degradation

C. Pain in lungs

D. Damage in diaphragm

**Answer: A**



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**42.** Mark a cell which does not exhibit phagocytotic activity among the following

A. Monocytes

B. Neutrophil

C. Basophil

D. Macrophage

**Answer: C**

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43. With the help of several ommatidia, a cockroach can receive several images of an object. This kind of vision is called

- A. Nocturnal vision , with less sensitivity and less resolution
- B. Mosaic vision , with less sensitivity but less resolution
- C. Mosaic vision , with more resolution but less sensitivity
- D. Nocturnal vision , with more sensitivity and resolution

**Answer: B**

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44. A significant amount of progesterone is product by the

- A. Corpus luteum
- B. testis

C. Placenta

D. Both A and B

**Answer: D**



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**45.** Which of the following acts as a filter of the blood by trapping blood borne micro-organisms and also has a large reservoir of erythrocytes ?

A. Bone marrow

B. Thymus

C. Spleen

D. Tonsils

**Answer: C**



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46. Select the correct set of animals of class-mammalia

- A. Lion, hippopotamus, penguin , bat
- B. Lion, bat, whale , ostrich
- C. Hippopotamus , penguin, whale , kangaroo
- D. Whale , bat kangaroo , hippopotamus

**Answer: D**



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47. If the sugar level of blood is too high , it can be reduced immediately by

- A. oral insulin
- B. oral glucagon
- C. intravenous insulin
- D. intravenous glucagon



**Answer: C**



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**48.** The acromion process is a part of the

- A. humerus
- B. sternum
- C. clavicle
- D. scapula

**Answer: D**



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**49.** A method of birth control which is not used by women is

- A. Nirodh

B. Progestasert

C. Mala D

D. Multiload 375

**Answer: A**



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50. The given illustration shows the skull of two different mammals. Which of the following accurately describes the differences between these skulls ?

(A)



(B)



A. Skull A has less brain capacity than skull B

B. Skull A is of primate and skull B is not of primate

C. Skull A is the skull of human and skull B is the skull of an ape

D. Skull A and skull B are of baby chimpanzee and adult chimpanzee respectively

**Answer: C**



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51. You discovered a novel eukaryotic organism that glows in the dark. You believe this trait is due to a single gene, and you wish to clone the gene. Which of the following strategies is most likely to be successful ?

A. Isolate the genomic DNA from the organism, digest with a restriction endonuclease, insert into a plasmid vector and transform into bacteria. Screen colonies for the ability to glow in the dark

B. Isolate the genomic DNA from the organism, digest with a restriction endonuclease, insert into a plasmid vector and

transform into eukaryotic cells such as yeast. Screen colonies for the ability to glow in the dark .

C. Isolate the genomic mRNA from the organism, reverse transcribe and generate cDNA, insert into a plasmid vector and transform into bacteria. Screen colonies for the ability to glow in the dark .

D. Isolate the genomic mRNA from the organism, reverse transcribe and generate cDNA, insert into a plasmid vector and transform into eukaryotic cells such as yeast. Screen colonies for the ability to glow in the dark .

**Answer: D**



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52. Which one of the following statement is incorrect ?

- A. The medullar zone of kidney is divided into a few conical masses called medullary pyramids projecting into the calyces.
- B. Inside the kidney the cortical region extends in between the medullary pyramids as renal pelvis.
- C. Glomerulus along with Bowman's capsule is called the renal corpuscle.
- D. Renal corpuscle, proximal convoluted tubule (PCT) and distal convoluted tubule (DTC) of the nephron are situated in the cortical regions of kidney

**Answer: B**



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**53.** The acid used in separating biomolecules is

- A. Trichloroacetic acid

B. hydrochloric acid

C. sulphuric acid

D. nitric acids

**Answer:**



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**54.** Reducing sugars are simple carbohydrates having

A. free aldose group

B. free ketose group

C. free aldose of free ketose group

D. no free aldose / ketose group

**Answer: C**



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55. From the following relationship between respiration volumes and capacities, mark the correct option.

(i) Inspiratory Capacity (IC) = Tidal Volume + Residual Volume

(ii) Vital Capacity (VC) = Tidal Volume (TV) + Inspiratory Reserve Volume (IRV) + Expiratory Reserve Volume (ERV)

(iii) Residual Volume (RV) = Vital Capacity (VC) - Inspiratory Reserve Volume (IRV)

(iv) Tidal Volume (TV) = Inspiratory Capacity (IC) - Inspiratory Reserve Volume (IRV)

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

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

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

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

**Answer: B**



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56. If neural signals are sent through the parasympathetic nerves of the ANS, the heart rate will

- A. decreases
- B. increases
- C. show no change
- D. first decreases then increase

**Answer: A**



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57. the principle of immunisation or vaccination is based on which property of immune system

- A. To produce antibodies
- B. To retain memory
- C. To differentiate self and non - self



D. All of the above

**Answer: B**



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**58.** As part of a student project, Sheela surgically made a full cut in the hypothalamo - hypophyseal tract in pregnant rabbits and studied the physiological effects on different tissues/organs. Which of the following should be expected ?

- (i) Formation of large volume of dilute urine
- (ii) Increased blood sugar levels
- (iii) increased heart rate
- (iv) Difficulty in parturition

A. (i) and (ii)

B. (ii) and (iii)

C. (iii) and (iv)

D. (i) and (vi)

**Answer: D**

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**59.** Miller performed experiment to prove abiogenetic molecular evolution of life. Which molecule was not present in Miller's experiment

- A. Oxygen
- B. Water
- C. Ammonia
- D. Methane

**Answer: A**

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**60.** Which of these is NOT absolutely necessary

A. Ori

B. High copy number

C. Selectable marker

D. Cloning sites

**Answer: B**



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**61.** The sudden increase in which of the following hormone is directly responsible for the release of ovum from the Graafian follicle ?

A. LH

B. FSH

C. Estrogen

D. Progesterone

**Answer: A**

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62. The colepteran insect that can be killed by proteins produced by *Bacillus thuringiensis* is

- A. beetles.
- B. armyworm
- C. flies
- D. tobacco budworm.

**Answer: A**

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63. Which one of the following crosses shows phenotypic ratio of 3:1?

- A.  $AaBb \times AaBb$
- B.  $aabb \times Aabb$

C. Aabb × Aabb

D. AaBb × aabb

**Answer: C**



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**64.** The corn is used as a mean of vegetative reproduction in

A. members of Fabaceae family

B. members of Liliaceae family

C. members of Solanaceae family.

D. members of Brassicaceae family.

**Answer: B**



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65. How many microsporangia are found in each lobe of anther ?

- A. One microporangia
- B. Two microporangia
- C. Three microporangia
- D. Four microporangia

**Answer: B**



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66. The main role of DNA polymerase III is

- A. addition and polymerization of nucleotides from 5' end to 3' end.
- B. as major repair enzyme form 5' and to 3' end.
- C. removal of DNA primer from 5' end.
- D. addition and polymerization of nucleotides from 3' end to 5' end.

**Answer: A**



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**67.** All the following variety are not resistant to the curl blight black rot disease, except:

- A. Pusa Sawani
- B. Pusa Swarnim
- C. Pusa Shubhra
- D. Himgiri

**Answer: C**



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**68.** To see the effect of sex on inheritance, mendel performed

- A. Test cross
- B. Outcross
- C. Reciprocal cross
- D. Back cross

**Answer: C**

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**69.** The non - symbiotic anaerobic nitrogen fixer is

- A. Rhizobium
- B. Beijerinckia
- C. Azotobacter
- D. None of these

**Answer: D**

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70. The salinity in sea water in parts per thousand (ppt) ranges between

- A. 0 – 5
- B. 30 – 35
- C. 10 – 15
- D. 30 – 70

**Answer: B**



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71. Which of the following statement is INCORRECT ?

- A. The process of decomposition is anaerobic.
- B. Decomposition rate is low if detritus is rich in lignin and chitin.
- C. Decomposition rate is fast if detritus is rich in sugars.

D. Degradation of humus by microbes is called mineralization.

**Answer: A**



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72. The historic convention on Biological Diversity held in Rio de Janeiro in 1992 is known as

A. The World Summit

B. The Earth Summit

C. G - 16 Summit

D. MAB Programme

**Answer: B**



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73. Alleles that produce independent effects in their heterozygous condition are called

- A. Abiogenesis or spontaneous generation means :
- B. Epistatic alleles
- C. Complementary alleles
- D. Supplementary alleles

**Answer: A**



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74. The increased productivity of lakes and streams brought about by nutrient enrichment particularly by  $PO_4^{3-}$  and  $NO_3^-$  of detergents and fertilizers is known as

- A. Origin of life from living organism
- B. eutrophication.

C. biomagnification

D. biochemical oxygen demand.

**Answer: B**



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**75. Most common abiotic pollinating agent for plant is :**

A. Origin of life from non living organism

B. Hydrophily

C. Pollination by bees

D. Pollination by ants

**Answer: A**



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76. In Andulassian fowl, the heterozygous condition of alleles for black plumage (B) and white (b) is blue. A blue andulasian fowl is bred to a black andulasian fowl, the proportion of the offspring will be

- A. Origin of viruses and microbes
- B. 50% black : 50 % blue
- C. 50% black : 50 % white
- D. 25% black : 25% : blue : 50 % white

**Answer: B**



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77. Identify the mismatched pair in context to eukaryotic transcription.

- A. Origin of life from outer space
- B. RNA pol II - synthesis of precursor of mRNA
- C. RNA pol III - synthesis of tRNA

D. RNA pol III - synthesis of snRNA

**Answer: A**



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78. Cyclosporine-A: an immunosuppressive agent is produced by the fungus

- A. *Clostridium butylicum*
- B. *Trichoderma polysporum*
- C. *Aspergillus niger*
- D. *Monascus purpureus*

**Answer: B**



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79. Which of the following would necessarily decrease the density of a population in a given habitat ?

- A. Natality  $>$  mortality
- B. Immigration  $>$  emigration
- C. Mortality and emigration
- D. Natality and immigration

**Answer: C**



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80. Which one is NOT correctly matched ?

- A. Productivity - rate of biomass production
- B. Gross primary productivity
- C. Net primary productivity - available biomass for consumption

D. Secondary productivity - formation of new organic matter in  
producer

**Answer:**

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81. Species diversity .....as we move away from the .....towards.....

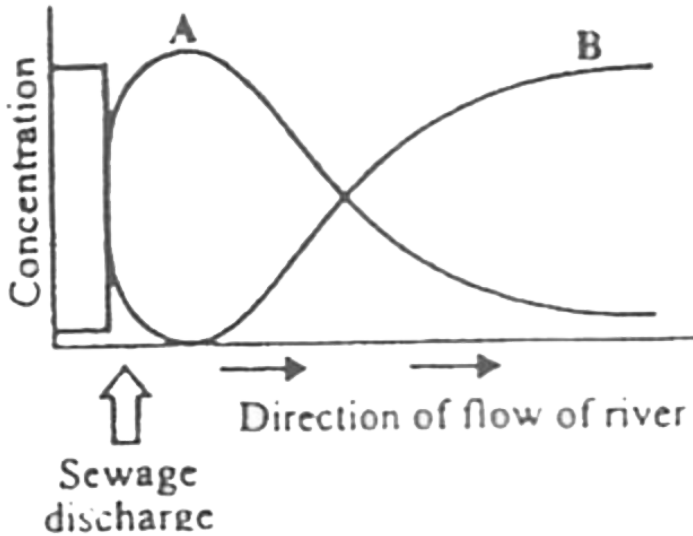
- A. decreases , equator , poles
- B. increases , equator , poles
- C. decreases low altitude, high altitude
- D. More than one option is correct

**Answer: D**

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82. The graph given below represents the effect of sewage discharge of some important characteristics of river



Select the CORRECT option with respect to peaks A and B.

A. Peak A - Sharp increase in BOD , the disappearance of clean water organisms

Peak B - Increase in dissolved oxygen , the reappearance of clean water organisms.

B. Peak A - Increase in dissolved oxygen , the reappearance of clean water organisms.

Peak B - Sharp decline in dissolved oxygen , the disappearance of clean water organisms.

C. Peak A - Sharp increase in BOD , the appearance of clean water organisms.

Peak B - Increases of clean water organisms.

D. Peak A - Increased number of anaerobic bacteria, the disappearance of clean water organisms.

Peak B. Sharp decline in dissolved  $O_2$  , the reappearance of clean water organisms

**Answer: A**



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83. The functional megaspore referred to as :

- A. The megaspore that degenerates after formation.
- B. The megaspore that only develops in female gametophyte .
- C. The megaspore that undergoes reduction division.
- D. The megaspore that is functionally inactive.

**Answer: B**



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84. The different gametes produced by an individual with the genotype of  $aaBBCc$  are .

- A. 2
- B. 8
- C. 4
- D. 6

**Answer: A**



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**85.** How many of the following statements are true in the context of the salient features human genome project ?

I. There are 1.4 million SNPs.

II. 99.9% genome is similar in all humans.

III. 32% of genome codes for proteins.

IV. The largest human gene is dystrophin with 2.4 million base pairs.

V. The human genome has a maximum number of genes on 1<sup>st</sup> chromosome i.e.,

A. 1

B. 2

C. 3

D. 4

**Answer: B**



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**86.** Out of nutrient cycles sulphur - (a) , phosphorus - (b) , carbon - (c) , and nitrogen (d) , the sedimentary cycle is/are :

A. only

B. (b) and (d) only

C. (c) and only

D. (a) and (b) only

**Answer: D**



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**87.** Dodo, passenger pigeon and Steller's sea cow became extinct in the last 500 years due to

A. habitat destruction.

B. over - exploitation.

C. alien species invasion.

D. co - extinction.

**Answer: B**



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**88.** The spermatogenous cells of male gametophyte is:

A. Vegetative cell

B. Body cell

C. Generative cell

D. Stalk cell

**Answer: C**



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89. Sickle cell anemia is due to transversion mutation in which :

- A. Instead of glutamic acid , valine comes at number 6<sup>th</sup> position in one of  $\beta$  chain of Hb
- B. Instead of valine , glutamic acid is inserted at number 6<sup>th</sup> position of  $\beta$  chain of Hb
- C. Valine is inserted at number 6<sup>th</sup> position in  $\alpha$  chain of Hb
- D. Glutamic acid is substituted by valine at number 6<sup>th</sup> position of  $\alpha$  - chain of Hb

**Answer: A**



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90. What is ploidy of perisperm ?

A.  $n$

B.  $2n$

C.  $3n$

D.  $4n$

**Answer: B**



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