



## BIOLOGY

### BOOKS - NTA MOCK TESTS

#### NTA NEET TEST 103

#### Biology

1. How many from the given below is/are the correct match ?

I. Asthma : difficulty in breathing due to inflammation of bronchi and bronchioles.

II. Carboxy-haemoglobin

III. Carbonic anhydrase : this enzyme concentration is high in blood plasma

IV. Pneumotaxis center : It controls respiration and is present in the medulla

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

**Answer: D**



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2. Which of the following scientist conducted an experiment to explain the chemical evolution of life ?

- A. Louis Pasteur
- B. J.B.S Haldane

C. S.L Miller

D. A. Oparin

**Answer: C**

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**3. Match the following :**

|    | Column-I                        |      | Column-II              |
|----|---------------------------------|------|------------------------|
| A. | First cellular form of life     | I.   | 350 million years ago  |
| B. | Invertebrates were formed       | II.  | 2000 million years ago |
| C. | First non-cellular form of life | III. | 500 million years ago  |
| D. | Jawless fishes were evolved     | IV.  | 3000 million years ago |

*A. A – IV, B – III, C – II, D – I*

*B. A – II, B – II, C – IV, D – I*

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

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

**Answer: B**

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4. Read the following statements regarding evolution (A-D)-

A. Whales, bats, cheetah, and humans (all mammals) share similarities in the pattern of bones of forelimbs.

B. The diversity of life forms on earth has been changing over millions of years.

C. About 65 million years ago the dinosaurs suddenly disappeared from the earth.

D. A single-step large mutation is called speciation and explained by Herbert Spencer.

How many statements from the above is/are correct ?

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

**Answer: B**

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5. Select the option with a correct representation of phylum of animal to the below - mentioned features :

I. The body is supported by a skeleton made up of spicules or spongin fibers with choanocytes line the spongocoel.

II. Specialized cells called flame cells help in osmoregulation and excretion.

III. The body bears eight rows of ciliated comb plates which helps

in locomotion.

IV. The alimentary canal is complete with the well developed muscular pharynx.

A. *I*                      *II*                      *III*                      *IV*  
Echinodermata    Platyhelminthes    Cnidari    Arthropoda

B. *I*                      *II*                      *III*                      *IV*  
Echinodermata    Nematoda    Ctenophora    Annelida

C.

*I*                      *II*                      *III*                      *IV*  
Porifera    Aschelminthes    Echinodermata    Platyhelminthes

D. *I*                      *II*                      *III*                      *IV*  
Porifera    Platyhelminthes    Ctenophora    Aschelminthes

**Answer: D**

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6. How many animals from the following are warm- blooded with 4-chambered heart and oviparous condition?

[Corvus, Struthio, Macropus, Ornithorhynchus, Balaenoptera, Pteropus, Delphinus, Psittacula, Chelone, Calotes, Crocodilus]

- A. Six
- B. Five
- C. Four
- D. Seven

**Answer: C**

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7. Which of the following can be obtained from amniotic fluid of the amniotic cavity that surround the developing foetus?

- A. Cells of the foetus skin
- B. Mesenchymal pluripotent cells

C. Hematopoietic stem cells

D. All of the above

**Answer: D**

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8. Which of the following is true regarding contraceptive types and its examples ?

A. Barrier method : Condom, Diaphragm, Provera

B. Oral contraceptive pill, Saheli , Mala- D, Triquilar

C. Hormone releasing IUD : LNG-20, Progestasert , Multiload -

375

D. Implants : Norplant, Implanon, Depoprovera



**Answer: B**

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**9. Which of the following is correct match ?**

- A. Hisardale : new breed of cattle developed by cross-breeding
- B. Livestock : include cattles , buffaloes, sheeps , pigs, goats  
etc.
- C. Mule : shows inbreeding depression developed by out-  
breeding.
- D. All of the above

**Answer: B**

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10. All of the following structure are paired in male reproductive system, except :

- A. Seminal vesicles and Cowper's gland
- B. Prostate gland and urethra
- C. Ejaculatory duct and Epididymis
- D. Bulbo - urethral gland and Vas deferens

**Answer: B**

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11. Read the following statements regarding menstrual cycle in females :

- A. It is the reproductive cycle in all mammalian females.
- B. The menstrual flow results due to breakdown of myometrium

lining of uterus.

C. Graafian follicle and endometrium of uterus regenerates simultaneously during follicular phase of menstrual cycle.

D. The corpus luteum secretes large amounts of oestrogen which is essential for maintenance of endometrium.

select the correct statement from the above ?

A. A,C, & D

B. A, B, C & D

C. C & D only

D. Only C

**Answer: D**



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12. The embedding of \_\_\_\_\_X\_\_\_\_\_ in the \_\_\_\_\_Y\_\_\_\_\_ of uterus is called implantation. Select the correct option for X and Y.

- A.  $X$                        $Y$   
Blastocyst   Endometrium
- B.  $X$                        $Y$   
Blastocyst   Myometrium
- C.  $X$                        $Y$   
Trophoblasts   Myometrium
- D.  $X$                        $Y$   
Trophoblasts   endometrium

**Answer: A**



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13. The \_\_\_\_\_ process is crucial to the success of the breeding program.

- A. release

B. testing

C. selection

D. hybridization

**Answer: C**



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**14.** Read the following matches and mark the correct option :

I. Antigen binding site on antibody : contains a variable region of a heavy chain only

II. Humoral immunity: due to antibodies, secreted by plasma cell

III. Graft rejection: due to cell-mediated immunity response

IV. Colostrum : provides active immunity to infants or newborns.

A. I and II are correct

B. II and IV are correct

C. II and III are correct

D. I and IV are correct

**Answer: C**

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15. Which of the following is not correct about the alkaloid obtained from the papaver somniferum plant?

A. These are opioids drugs, binds to specific opioid receptors present in our brain and gastrointestinal tract.

B. Heroin is chemically diacetylmorphine and is commonly called smack.

C. It is taken by snorting and injection.

D. It is a CNS stimulant which also causes hallucinations.

**Answer: D**

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**16.** Choose the odd one w.r.t. ex-situ conservation strategies

- A. Zoological parks
- B. Botanical gardens
- C. Wildlife safari parks
- D. Hot spots

**Answer: D**

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**17.** Which one of the following is incorrect statement?

- A. The site of actual diffusion of gases between blood and atmospheric air is called exchange part of lungs.
- B. Inspiration is initiated by the contraction of diaphragm and internal inter-costal muscles.
- C. A healthy man inspire or expire approximately 6000 to 8000 ml of air per minute.
- D. About 97 percent oxygen is transported by RBC in the blood.

**Answer: B**



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**18.** More conservative and scientifically sound estimate made by Robert May places the global species diversity at about



A. 1.5 million

B. 7 million

C. 1.7 million

D. 17 million

**Answer: B**



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**19.** India covers the world land area of ..... And contributes the global diversity of.....

A. 4%, 8%

B. 8.1%, 2.4

C. 2.4%, 8.1%

D. 8%, 4%

**Answer: C**

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20. Of the following \_\_\_\_\_ represents the largest man made ecosystem.

- A. zoo
- B. garden
- C. aquarium
- D. agriculture land/water

**Answer: D**

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21. Which of the structure is not associated with the mucosa layer of the small intestine?

- A. Villi and microvilli
- B. Crypts of Leiberkuhn
- C. Chief cells
- D. Intestinal gland

**Answer: C**

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22. If 10,000 J of energy is present at the  $T_1$  level, then what is the energy available at the  $T_2$  level ?

- A. 1000 J

B. 10 J

C. 100 J

D. 1 J

**Answer: C**



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**23.** In front of the lens, the aperture surrounded by the iris is called the

A. pupil

B. retina

C. ciliary body

D. ganglion

**Answer: A**



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24. The human red blood cells are about \_\_\_\_\_ in diameter.

A.  $7.0\mu m$

B.  $9.0\mu m$

C.  $5.4\mu m$

D.  $4.5\mu m$

**Answer: A**



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25. Which of the following hormone helps in water retaining in body and prevent water loss by making hypertonic urine ?

- A. oxytocin
- B. ADH
- C. Vasopressin
- D. both c and d

**Answer: D**

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26. The genetically inactive and highly condensed region with tightly packed DNA which recives dark stain is

- A. Euchromatin

B. Heterochromatin

C. Chromatin

D. Chromosome

**Answer: B**



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27. If the total amount of adenine and thymine in a double-stranded DNA is 60%, then the amount of guanine in this DNA will be

A. 0.15

B. 0.2

C. 0.3

D. 0.4

**Answer: B**

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**28.** Read the following statements :

- A. The action potential generated by the SA node stimulates both ventricles to undergo simultaneous contraction.
- B. The heart sound Lubb is associated with the closure of both semilunar valves.
- C. The QRS complex in ECG represents the depolarization of the ventricles.

Select the appropriate option from the following :

- A. A and B are correct , C is incorrect
- B. A, B are incorrect and C is correct
- C. Only B and C are correct



D. Only A is correct

**Answer: B**



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**29. Which of the following is reducing and non-reactive sugar ?**

A. Galactose

B. Gluconic acid

C. Methygalactoside

D. Sucrose

**Answer: D**



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30. Match the following :

|    | Column-I               |      | Column-II    |
|----|------------------------|------|--------------|
| A. | Graveyard of RBC       | I.   | Thrombocytes |
| B. | Inflammatory reactions | II.  | Lymph        |
| C. | Megakaryocytes         | III. | Basophils    |
| D. | Tissue fluid           | IV.  | Spleen       |

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

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

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

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

**Answer: D**



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31. Which of the following lipids is found in the cell membrane.

- A. Lecithin
- B. Palmitic acid
- C. Arachidonic acid
- D. Glycerol

**Answer: A**

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**32.** What will be DNA amount in Meiotic II products if DNA is 20 picogram in meiocyte at  $G_2$  stage ?

- A. 5 pg
- B. 10 pg
- C. 20 pg
- D. 40 pg

**Answer: A**

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**33.** Which of the following is incorrect regarding the erythroblastosis foetalis condition in a pregnant woman ?

- A. It is a special case arises due to Rh incompatibility or mismatching
- B. Destruction of Rh(+ve) foetal RBC inside Rh(-ve) pregnant mother
- C. Specific antibodies against Rh antigens are formed inside foetal blood
- D. It can be prevented by injecting anti-Rh antibodies to the mother

**Answer: C**



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**34.** In animal cells, cytokinesis involves

- A. the separation of sister chromatids
- B. the contraction of the contractile ring of microfilament
- C. depolymerization of kinetochore microtubules
- D. a protein kinase that phosphorylates other enzymes

**Answer: B**



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35. Which of the following parts of the plant is used as commercial wood ?

- A. Primary xylem
- B. Primary phloem
- C. Secondary xylem
- D. Secondary phloem

**Answer: C**

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36. How many of the following meristems are completely secondary in origin ?

- A. Cork cambium of a dicot stem
- B. Vascular cambium of a dicot stem

C. Cork cambium of a dicot root

D. Vascular cambium of a dicot root

A. 4

B. 3

C. 2

D. 1

**Answer: B**



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**37.** Generation of second messengers is not possible in which of the given set of hormones ?

A. Epinephrine, insulin glucagon

B. Estrogen, cortisol, thyroxine

C. FSH, LH, oxytocin

D. Estradiol, oxytocin, FSH

**Answer: B**

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**38.** Succession proceeds from

A. xeric to mesic conditions

B. hydric to mesic conditions

C. mesic to xeric conditions

D. more than one option is correct

**Answer: D**

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**39.** Arrange the different parts of the root vertically, from the top to the bottom.

A. Region of elongation → Root hair → Region of maturation → Region of meristematic activity → Root cap

B. Region of maturation → Root hair → Region of elongation → Region of meristematic activity → Root cap

C. Region of maturation → Region of elongation → Region of meristematic activity → Root cap → Root hair

D. Root cap → Region of meristematic activity → Region of elongation → Root hair → Region of maturation

**Answer: B**

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40. Which of the following is an example of a plant with palmately compound leaves ?

- A. Neem
- B. Silk cotton
- C. China rose
- D. Guava

**Answer: B**



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41. The mango has a fleshy, edible \_\_\_\_\_ and a stony hard \_\_\_\_\_.

- A. endocarp, epicarp
- B. mesocarp , endocarp
- C. pericarp , epicarp
- D. pericarp , endocarp

**Answer: B**

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**42.** Which of the following matches is not true for the hormone and their functions ?

- A. Thyroxine , maintenance of water and electrolyte balance
- B. Cortisol : stimulate the formation of erythrocytes
- C. Melatonin : influences pigmentation and menstural cycle
- D. All of the above are corrcctly matched.

**Answer: D**

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**43.** Which of the following aestivation involves non-uniform overlapping of petals?

- A. Valvate
- B. Twisted
- C. Imbricate
- D. Contorted

**Answer: A**

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44. Find the odd one out with respect to zygomorphic flowers.

A. Mustard

B. Pea

C. Gulmohur

D. Bean

**Answer: A**



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45. According to Central Pollution Control Board (CPCB), particulate size \_\_\_\_\_ micrometers or less in diameter are hazardous to human health.

A. 25

B. 10

C. 2.5

D. 4.5

**Answer: C**



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**46.** Which of the following structures in humans is an important neuroendocrine link to control and coordinate the activities of hormones?

A. Cerebrum

B. Cerebellum

C. Hypothalamus

D. Medulla oblongata

**Answer: C**

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**47.** Select the correct option with respect to thermal pollution.

- A. Speeds up biodegradation of organic matter
- B. Leads to the death of temperature- sensitive organisms
- C. Increases the rate of metabolism and microbial activity
- D. Enhances the growth of aquatic life without harming the indigenous species

**Answer: B**

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**48.** Read the following statements and select the appropriate option :

I. The pliability and flexibility in cartilages are mainly due to the presence of chondroitin salts in its matrix.

II. The hardness of bone is due to calcium phosphate and collagen fibres with ossein protein.

III. The total number of bicephalic ribs in humans are 12 pairs.

IV. The sutures between skull bones are examples of cartilaginous joints.

A. I , III and IV are incorrect

B. II and III are incorrect

C. III and IV are correct

D. I, II, and III are correct

**Answer: D**





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49. Find the odd one out with respect to ecto-or endo-parasitism.

A. Cuscuta

B. Hirudinea

C. Anopheles

D. Plasmodium

**Answer: D**

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50. The pleiotropic character represents that quality of gene in which it can

A. be dominant over recessive genes

B. be capable of representing more than the form

C. regulate more than one phenotypic characters

D. regulate only one phenotypic character

**Answer: C**



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**51.** Which of the following properties is not associated with muscles of humans ?

A. Exhibits both contractility and extensibility

B. Exhibits both excitability and elasticity

C. Endodermal in origin and about 20-30 percent of body weight

D. can classified on the basis of location, appearance and function

**Answer: C**

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52. The types of flowers which always produce seed even in the absence of pollinators

- A. Chasmogamous flowers
- B. Cleistogamous flowers
- C. Bisexual flowers
- D. Unisexual flowers

**Answer: B**

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53. Special cellular thickenings are observed at the micropylar end of the synergids. Identify the option which correctly identifies these structures and their function.

- A. Filiform apparatus - helps in the guidance of the pollen tube into the synergid
- B. egg apparatus - forms the mature, 8- nucleate and 7-celled, angiospermic embryo sac
- C. antipodal cells - provision of nourishment to the egg apparatus
- D. central cell - characterizes the female gametophyte and allows the initiation of double fertilization as required

**Answer: A**



**54.** Read the following statements about the human nervous system :

(i) A multipolar neuron is with one axon and two or more dendrites , found in the cerebral cortex.

(ii) in resting condition, the sodium-potassium pump transports  $3Na^+$  inwards and  $2K^+$  outwards the cell.

(iii) Midbrain and hindbrain form the brain stem including the cerebellum.

(iv) the pons of the hindbrain is directly connected to the spinal cord to control respiration.

How many statement/s from above is/are incorrect ?

A. Three

B. Two

C. One

D. Four

**Answer: A**

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55. In monoecious plant like castor and maize

A. autogamy and allogamy are not prevented

B. geitonogamy is prevented

C. allogamy is prevented

D. geitonogamy is not prevented

**Answer: D**

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56. Some seeds retain a part of endosperm as it is not completely used up during embryo development, while in some seeds, remnants of the nucellus are also persistent. Choose the option with example of the respective types of seeds.

A. Black pepper, groundnut

B. Castor, black pepper

C. Pea, beet

D. Barley, groundnut

**Answer: B**



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57. Vernalisation is commonly seen in plants like \_\_\_\_\_, which are \_\_\_\_\_ in nature.

- A. sugarbeet, annual
- B. cabbage, perennial
- C. mustard, biennial
- D. carrot, biennial

**Answer: D**

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**58.** Which of the following structures of the human brain is used to connect the two hemispheres of the cerebrum ?

- A. Corpus quadrigemina
- B. Cerebral aqueduct
- C. Crura cerebri
- D. Corpus callosum



**Answer: D**

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**59.** Dormancy of seeds broken by ethylene whereas it is induced by

- A. abscisic acid
- B. Auxin
- C. Cytokinin
- D. Gibberellic acid

**Answer: A**

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**60.** Arithmetic growth rate can be mathematically expressed as :

A.  $L_t = L_0 - rt$

B.  $L_0 = L_t + rt$

C.  $rt = Lt + L_0$

D.  $L_t = L_0 + rt$

**Answer: D**

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**61.** A female cockroach can be differentiated from a male cockroach, due to the presence of :

A. Boat-shaped 7<sup>th</sup> sternum forming brood pouch

B. Anal style in 9<sup>th</sup> abdominal segment

C. Anal cerci in 10th abdominal segment

D. Both (A) and (C )

**Answer: A**

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**62.** Which of the following microorganism is involved in last step of biogas production ?

- A. Methanobacterium
- B. Acetobacter
- C. Bacillus
- D. Streptococcus

**Answer: A**

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63. Select the odd one w.r.t. biofertilisers

A. Bacteria

B. Fungi

C. Cyanobacteria

D. Viruses

**Answer: D**



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64. The tissue whose cells acts like a diffusion boundary is :

A. Simple Cuboidal epithelium

B. Simple Columnar epithelium

C. Simple Squamous epithelium

D. All of the above

**Answer: C**



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**65.** Plasmids are extra-chromosomal genetic material found in

A. Algae

B. Mammalian cell

C. Bacteria

D. Viruses

**Answer: C**



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66. The specific DNA sequence recognised by EcoRI is

A. 3' *GAATTC* 5'

B. 5' *GAATTC* 3'

C. 5' *GTTAAC* 3'

D. 3' *GTTAAC* 5'

**Answer: B**

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67. For transformation, micro- particales coated with DNA to be bombarded with gene gun are made up of

A. Silver or Platinum

B. Platinum or Zinc

C. Silicon or Platinum

D. Gold or Tungsten

**Answer: D**



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**68.** Which of the following is not true regarding the transgenic animals ?

- A. Transgenic mice are being developed for use in testing the safety of vaccines before they are used on humans.
- B. They are used to study complex factors involved in growth such as insulin-like growth factor .
- C. Protein alpha - 1 antitrypsin is used for replacement therapy for individuals at risk from emphysema.

D. In 1997, the first transgenic cow, Rosie, produced human protein beta lactalbumin enriched milk

**Answer: D**

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69. Choose the mechanism that is used in the tobacco plants that are introduced with nematode - specific using certain vectors.

- A. RNAi
- B. Insecticidal protein
- C. DNAi
- D. Cry gene

**Answer: A**

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70. The interaction between cuckoo and crow is an example of

- A. competition
- B. Proto-cooperation
- C. brood parasitism
- D. mutualism

**Answer: C**



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71. In the lac operon, the structural genes are switched off when

- A. Repressor binds to operator
- B. Repressor binds to promoter

C. Repressor binds to regulator

D. Repressor binds to allolactose

**Answer: A**



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72. Which one of the following also acts as a catalyst in a bacterial cell ?

A. 5S rRNA

B. 28 S rRNA

C. hnRNA

D. 23s rRNA

**Answer: D**



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73. Which of the following amino acid doesn't show degeneracy ?

- A. Leucine
- B. Proline
- C. Cysteine
- D. Tryptophan

**Answer: D**

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74. How many types of gametes can be produced by a diploid organisms, if it is heterozygous for 3 loci?

- A. 6

B. 4

C. 8

D. 3

**Answer: C**



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**75.** A cross between  $F_1$  hybrid and its homozygous recessive parent is called

A. Test cross

B. Back cross

C. Reciprocal cross

D. All of these

**Answer: A**

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**76.** If a colourblind woman marries a normal visioned man. Their sons will be

- A. All normal visioned
- B. One half normal and one half colourblind
- C. Three fourth colourblind and one fourth normal
- D. All colourblind

**Answer: D**

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77. What is the recombination percentage between gene y and w in *Drosophila* ?

- A. 1.3 %
- B. 98.7 %
- C. 62.8 %
- D. 37.2 %

**Answer: A**

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78. Select the incorrect w.r.t. cytoplasmic streaming.

- A. Symplastic movement may be aided by cytoplasmic streaming

- B. Cytoplasmic streaming can be observed in cells of the Hydrilla leaf.
- C. Over long distances, substances move by cytoplasmic streaming supplemented by passive transport.
- D. Both (A) and (C )

**Answer: C**

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**79. Mark the incorrect option (w.r.t. nitrifying bacteria)**

- A. Nitrococcus
- B. Pseudomonas
- C. Nitrobacter
- D. Nitrosomonas

**Answer: B**

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**80.** Which one of the following is not an inclusion body found in prokaryotes ?

- A. Phosphate granule
- B. Cyanophycean granule
- C. Glycogen granule
- D. Polysome

**Answer: D**

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81. A colonial algae among the following is :

A. Chlamydomonas

B. Ulothrix

C. Volvox

D. Spirogyra

**Answer: C**



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82. Cyanobacteria is found in association with

A. Coralloid roots of Pinus

B. Mycorrhizal roots of Pinus

C. Coralloid roots of Cycas

D. Mycorrhizal roots of *Cycas*

**Answer: C**



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**83.** Select the incorrect statement .

- A. The first word in a biological name represents the genus while the second component denotes the specific epithet.
- B. Biological names are generally in the Latin language .
- C. Both the words in a biological name, when handwritten, are separately underlined or printed in Latin.
- D. The first word denoting the genus starts with a capital letter while the specific epithet starts with a small letter.

**Answer: C**

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**84.** Cyclic photophosphorylation results in the formation of :

A. ATP and NADPH

B. ATP, NADPH and  $O_2$

C. *ATP*

D. *NADPH*

**Answer: C**

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**85.** The site of glycolysis is

- A. nucleoplasm
- B. mitochondria
- C. peroxisomes
- D. cytoplasm

**Answer: D**

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**86.** Ribulose diphosphate carboxylase enzyme catalyses the carboxylation reaction between

- A. Oxaloacetic acid and acetyl CoA
- B.  $CO_2$  and ribulose 1,5 diphosphate
- C. Ribulose diphosphate and phosphoglyceraldehyde
- D. PGA and dihydroxyacetone phosphate

**Answer: D**



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**87.** What is the genetic disorder in which an individual has an overall masculine development, gynaecomastia, and is sterile?

- A. Turner's syndrome
- B. Klinefelter's syndrome
- C. Edward syndrome
- D. Down's syndrome

**Answer: B**



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88. The number of genes on chromosome 1 is :

A. 231

B. 14

C. 2968

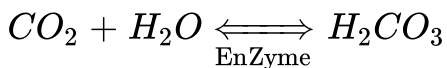
D. 3000

Answer: C



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89. Study the reaction given below



In absence of any enzyme this reaction is very slow, with 200 molecules of  $H_2CO_3$  being formed in an hour. In presence of enzyme the reaction speeds up dramatically with about 6000,000

molecules formed every second. Name the enzyme which has accelerated up the reaction by 10 million times.

- A. Ribozyme
- B. Carbonic anhydrase
- C. Catalase
- D. Peroxidase

**Answer: B**



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**90.** The number of mitotic generations required to form a mature embryo sac in most of the flowering plants is

- A. One
- B. Two

C. Three

D. Four

**Answer: C**



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