



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 72

Biology

1. Name the process through which much needed oxygen is supplied to all the cells of body ?

A. Diffusion

B. Endosmosis

C. Exosmosis

D. Counter current

Answer: A



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2. Roots of which of these plants contain a pigment which creates an anaerobic condition for a specific enzyme to function ?

A. Carrot

B. Soybean

C. Mustard

D. Radish

Answer: B



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3. In the leaves of C_4 plants, malic acid formation during CO_2 fixation occurs in the cells of

A. bundle sheath

B. Phloem

C. epidermis

D. mesophyll.

Answer: D



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4. The p_{50} of myoglobin is less than the p_{50} of adult hemoglobin, the affinity of adult hemoglobin for oxygen is

A. is less than myoglobin

B. is more than myoglobin

C. is equal to myoglobin

D. is nil

Answer: A



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5. Carbon dioxide joins the photosynthetic pathway in

A. PS I

B. PS II

C. light dependent reaction

D. light Independent reaction

Answer: D



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6. Which is key intermediate compound linking glycolysis to Krebs cycle ?

A. Malic acid

B. Acetyl CoA

C. NADN

D. ATP

Answer: B



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7. Which of the following is the central part of stomach containing the highest number of gastric glands ?

A. Cardiac region of stomach

B. Fundic region of stomach

C. Body of stomach

D. Pyloric region of stomach

Answer: C



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8. Which of the following is a reason that contribute to the success of Mendel in his hybridization experiment ?

A. Qualitative analysis of data

B. Observation of distinct inherited traits

C. His knowledge of biology

D. Consideration of one character at one
time

Answer: D



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9. The type placenta with a unilocular ovary and a single ovule

A. Marginal

B. Basal

C. Free central

D. Axile

Answer: B



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10. The cork cambium, cork and secondary cortex are collectively called

A. Phelloderm

B. Phellogen

C. Periderm

D. Phellem .

Answer: C



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11. Which of the following is not related to the adrenal gland ?

A. It is located above then kindey .

B. Adrenal cortex has many leyers .

C. Adrenal medulla secrete catecholamines

D. Adrenal cortex also secrete gonadotropins.

Answer: D



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12. sequence of taxonomic categories is

A. class - phylum - tribe - order - family -
genus - tribe - order - species

B. division - class - family - tribe - order -
genus - species

C. division - class -order -family - tribe -
genus- species

D. phylum -order -tribe -family -genus-
species

Answer: C



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13. Which of the following is free-living aerobic non-photosynthetic nitrogen fixing bacterium

- A. Nostoc
- B. Rhodospirillum
- C. Rhizobium
- D. Azotobacter

Answer: D



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14. Which of the following is a hormone responsible for the regulation of blood glucose level ?

- A. Tetraiodothyroine and triiodothyronine
- B. Trihydroxyidothyronine and thymosin
- C. Aldosterone and calcitonin
- D. Androgen and FSH

Answer: A



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15. Which one of the following statements is wrong ?

A. Archaeobacteria differ from eubacteria
have similar structured cell wall

B. Mesosomes perform the function of
mitochondria in bacteria

C. Cyanobacteria are also called blue green algae.

D. The structures that help some bacteria to attach to rocks and/or host tissue are fimbriae .

Answer: A



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16. Select the incorrect from the following.

- A. Diatomaceous earth ' is from by the cell wall of diatoms.
- B. Viriods consists of protein coat .
- C. Phycomycetes are also called algal fungi .
- D. Golden algae are also called desmids .

Answer: B



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17. An internal process that regulates the sleep-wake cycle and repeats roughly every 24 hours is regulated by

A. Melatonin

B. ADH

C. Thyroxine

D. Oxytocin

Answer: B



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18. Select the incorrect statement form the following .

A. One of the major components of cell wall of most fungi is chitin .

B. Lichen is a composite organism formed from the symbiotic association of an algae and a plasmodium .

C. Yeast used in making bread and beer is a fungus .

D. Mycorrhizae is symbiotic relationship between fungi and roots of some higher plants

Answer: B



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19. Which of the following is true for life cycle of bryophytes ?

A. Dominant, diploid, multicellular sporophyte alters dominant with multicellular gametophytes.

B. Dominant, haploid multicellular gametophyte Which alternates with diploid sporophyte .

C. The plant body shows diplomatic life cycle.

D. The plant body shows haplontic life cycle

.

Answer: B



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20. How many organisms show diplontic life cycle ?

Selaginella, Equisetum , Cycas , Cedrus ,
Ectocarpus , Fucus , sequoia

A. 7

B. 5

C. 4

D. 6

Answer: C



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21. what is true about a monocot leaf

A. They are not dorsiventral leaves and possess non-uniform distribution of stomata .

B. Absence of bulliform cells from epidermis

C. Mesophyll not differentiated into palisade and spongy tissues

D. The leaves do not have parallel venation

Answer: C



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22. Which of the following labels show the only repolarization wave in the given diagram ?



A. P

B. QRS

C. T

D. All of the above

Answer: C



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23. Segregation of mendelian factors (As) occurs during

- A. diplotene
- B. anaphase I
- C. zygotene /pachytene
- D. anaphase II

Answer: B



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24. Epithelial tissue which lines the spinal cord is known as

A. Endothelium

B. Endocardium

C. Ependymal cells

D. Mesothelium

Answer: C



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25. Select the total number of the correct statement:

I. Cell - plate formation occurs in plant cell during cytokinesis.

II. During cytokinesis .mitochondria and plastid gets distributed between two daughter cells in mitosis

III. Liquid endosperm in coconut is syncytium

IV. Furrow formation occurs in the animal cell during cytokinesis.

A. 1

B. 2

C. 3

D. 4

Answer: D



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26. Water potential is equal to

A. $\Psi_w = \Psi_s + O.P$

B. $\Psi_s = T.P$

$$C. \Psi_s = \Psi_p + \Psi_w$$

$$D. \Psi_w = \Psi_s + \Psi_p$$

Answer: D



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27. In cockroaches, the sclerite are joined to each other by

A. a thin and flexible articular membrane.

B. the thin and flexible muscles of the tergites .

C. the thin and flexible muscles of the sternites .

D. the extended membrane of the wings.

Answer: A



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28. Terminal cytochrome of respiratory chain which donates electrons to oxygen is

A. Cyt b

B. Cyt c

C. Cyt a₁

D. Cyt a₃

Answer: D



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29. Rohu and mackerel are variety of

A. Marine fish

B. Freshwater fish

C. Rohu is marine but Mackerel is
freshwater fish

D. Rohu is freshwater but Mackerel is
marine fish

Answer: D



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30. Treatment of seed at low temperature under moist conditions to break its dormancy is called

A. Stratification

B. Scarification

C. Vernalization

D. Chelation

Answer: A



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31. If we observe the structure of proteins, disulphide bonds are formed between

A. Cysteine residues that are close together

B. Cystine residues that are close together

C. Proline residues that are close together

D. Histidine residues that are close together

Answer: A





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32. The most effective method of contraception is

A. Multiple ovulation embryo transfer

B. Tubal ligation

C. Rhythm method

D. Lactational amenorrhea

Answer: B



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33. When a diploid female plant is crossed with a tetraploid male, the ploidy level of endosperm cells in the resulting seed is:

- A. Tetraploidy
- B. Pentaploidy
- C. Diploidy
- D. Triploidy

Answer: A



34. Nuclear embryo are the NBA formidable
the car nucleus is

- A. amphibiatic haploid
- B. amphimictic diploid
- C. apomictic haploid
- D. apomictic diploid .

Answer: D



35. Human placental lactogen , relaxin , progesterone and estrogen are secreted from

- A. Placenta
- B. corpus luteum
- C. ovary
- D. interstitial cells

Answer: A



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36. Study the four statements (i-iv) given below and select the two correct ones out of them

(i) A lion eating a deer and a sparrow feeding on grains are ecologically similar in being consumers.

(ii) Predator star fish *Pisaster* helps in maintaining species diversity of some invertebrates

(iii) Predators ultimately lead to the extinction of prey species

(iv) Production of chemicals such as nicotine, strychnine by the plants are metabolic

disorders

The two correct statements are

A. (ii) and (iii)

B. (iii) and (iv)

C. (i) and (iv)

D. (i) and (ii)

Answer: D



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37. Which of the following structures of seminiferous tubule is responsible for the release of androgen hormones and are stimulated by action of luteinizing hormone ?

- A. Sertoli cells
- B. Spermatogonia
- C. Leydig cell
- D. Oogonial cells

Answer: C



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38. Choose the correct Statement.

A. 0.1% of impurities in sewage water also consist of suspended solids like fecal matter , bacteria , paper fibers , etc. .

B. Mauve-coloured flowers are a characteristic feature of the world's most problematic weed .

C. Algal blooms cause deterioration of the water quality but do not cause any harm to other aquatic life, like fish .

D. Biomagnification refers to the decrease in concentration of the toxicant at successive trophic levels .

Answer: B



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39. Which of the following statements is correct?

A. *Parthenium* is an endemic species of our country .

B. African catfish is not a threat to indigenous catfishes.

C. *Rauwolfia vomitoria* growing in different Himalayan ranges produces an active chemical called as reserpine .

D. Lantana is popularly known as carrot grass.

Answer: C



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40. Which of the following endocrine glands is responsible for the release of hormones which cause uterine contractions during childbirth ?

A. Pineal gland

B. Mammary gland

C. Corpus albicans

D. Pituitary gland

Answer: D



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41. Which order is correct with respect to the biodiversity of species ?

A. Fungi > Algae > Lichens >

Angiosperm

B. Angiosperm > Fungi > Algae >

Lichen

C. Fungi > Angiosperm > Algae >

Lichen

D. mosses > Ferns > Algae > Lichens

Answer: B



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42. In which of the following assisted reproductive techniques the cryopreserved semen is utilized to achieve Fertilization ?

- A. Intrauterine insemination
- B. Gamete in fertilization technology
- C. Gameta intra fallopian transfer
- D. Intrauterine contraceptive technique

Answer: A



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43. Select the incorrect statement from the following.

A. Vertical distribution of different species occupying different levels is called stratification .

B. Secondary productivity is defined as the rate of formation of new organic matter by consumers.

C. Leaching is the breakdown detritus into smaller particles.

D. Secondary productivity = GPR - R.

Answer: D



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44. Which of the following is manufactured by CDRI Lucknow ?

A. Non steroidal contraceptive pill

B. An intrauterine device

C. A Hormonal implant

D. A Lie Detector machine

Answer: A



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45. Which of these plants follow the CAM pathway for photosynthesis ?

A. Plants with no leaves

B. Plants with their leaves reduced to thorns

C. Plants with sunken stomata

D. Plants with flattened stem

Answer: C



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46. Rheumatoid arthritis is an example of

A. deficiency disease

B. genetic disorder

C. autoimmune disorder

D. neuronal degeneration

Answer: C



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47. The transgenic animals are those which have

A. foreign RNA in all its cells

B. foreign DNA segment present in some of its cells

C. foreign DNA segment present in all its cells

D. both (A) and (B) .

Answer: C



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48. The first clinical gene therapy was given for treating :

A. Diabetes mellitus

B. Chicken pox

C. Rheumatoid arthritis

D. Adenosine deaminase deficiency.

Answer: D



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49. The infamous name Mary Mallon is associated as a carrier of

- A. Salmonella typhi , a bacterium
- B. Salmonella paratyphi , a bacterium
- C. Herpes virus
- D. Ascariasis , helminth disease

Answer: A



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50. In the given segment DNA strand the base sequence on the opposite strands are same when read in opposite directions . Such sequences are known as of basis pairs.

5'....GAATTCC.....3'

3'....CTTAAC5'

- A. Replication sequence
- B. Deletion mutation
- C. Origin of replication .
- D. Palindromic sequence

Answer: D



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51. The most abundant antibody in colostrum is

A. Immunoglobulin A

B. Immunoglobulin G

C. Immunoglobulin M

D. Immunoglobulin E

Answer: A



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52. Select the incorrect statement .

A. Selection of recombinations due to inactivation of antibiotic is a cumbersome procedure .

B. Insertional inactivation of β - galactosidase of leads to colourless

colonies .

C. Insertional inactivation of β -

galactosidase of leads to blue colourless

colonies .

D. Insertional inactivation , the rDNA is

inserted within the coding sequence of

an enzyme β -galactosidase

Answer: C



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53. Which of the following features is associated with Cro-magnon man ?

A. beginning of agriculture

B. developed speech center

C. Cave painting and domestication of animals

D. Use of stone tools

Answer: C



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54. Match the columns of bioactive substances and their roles and select the correct option.

	Bioactive substance		Role
(i)	Statin	(A)	Removal of oil stains
(ii)	Cyclosporin A	(B)	Removal of clots from blood vessels
(iii)	Streptokinase	(C)	Lowering of blood cholesterol
(iv)	Lipase	(D)	Immunosuppressive agent

Choose the correct match.

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

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

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

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

Answer: D



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55. The concept of chemical evolution is based on

A. Interaction of water , air and clay under intense heat

B. Effect of solar radiation on chemicals

C. Possible origin of life by combination of chemicals under suitable environmental conditions

D. Crystallization of chemicals

Answer: C



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56. Out of 64 codons , 61 codons code for 20 types of amino acid. This characteristics of genetic code is called

- A. degeneracy of genetic code
- B. Overlapping of gene
- C. Unambiguous nature of codon
- D. Universality of codons .

Answer: A



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57. According to Darwin , a new species arises due to which of the following two factors ?

A. Natural selection and branching descent

B. Branching descent and Mutation

C. Mutation and natural selection

D. Variation and mutation

Answer: A



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58. Which of the following step of translation does not consume a high energy phosphate bond

A. Peptidyl transferase reaction

B. Aminoacyl tRNA binding to A site

C. Translocation

D. Amino acid activation

Answer: A



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59. Another name for the wrist bones is

A. Metacarpals

B. Carpals

C. Phalanges

D. tarsals

Answer: B



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60. All are correct with respect to the Human Genome project , except

A. Its goal was to determine the sequence of the 3 billion chemical base pairs that make up human DNA

B. *Caenorhabditis elegans* and *Arabidopsis* are the non-human model organisms, that have been sequence

C. The sequence of chromosome -1 was completely only in May 2006 , this was the last of the 24 human chromosomes to be sequenced

D. 14 million locations are identified in humans with single base DNA differences

Answer: D



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61. The cell junction responsible for the bearing of cardiac muscle as an unit is :

A. Intercalated disc

B. Interdigitations

C. Desmosomes

D. Skeletal muscles

Answer: A



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62. The genes, which remain confined to non homologous region of Y chromosome, are called

A. autosomal genes.

B. holandric genes.

C. Completely sex-linked genes.

D. Mutant genes.

Answer:



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63. The abnormal condition when vestigial mammary glands of man become female like is called.

A. Feminization

B. Gynochorism

C. Gynosism

D. Gynaecomastia

Answer: D



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64. Consider the following four statement (1-4) and select the option which includes all the correct ones only

(1) Single cell Spirulina can produce large quantities of food rich in protein, minerals, vitamins etc

(2) Body weight-wise the microorganism Methylophilus methylotrophus may be able to produce several times more proteins than the cows pe day

(3) Common button mushrooms are a very rich source of vitamin C

(4) A rich variety has been developed which is very rich in calcium

A. Statements (C) and (D)

B. Statements (A) , (C) and (D)

C. Statement (B),(C) and (D)

D. Statement (A) and (B)

Answer: D



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65. Which of the following bone doesn't articulates with any other bone of the body ?

A. Ribs

B. Femur

C. Humerus

D. Hyoid

Answer: D



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66. The thermostable enzyme , Taq polymerase used in PCR is obtained from

A. *Bacillus subtilis*

B. *Pseudomonas putide*

C. *Thermus aquaticus*

D. *Thiobacillus ferroxidans*

Answer: C



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67. Which of the following is the characteristics of a biological community ?

A. Stratification

B. Natality

C. Mortality

D. Sex ratio

Answer: A



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68. Sickle cell anaemia is caused by the substitution of Glu by at the sixth position of the beta-globin chain of the hemoglobin molecule.

A. Asn

B. Gly

C. Arg

D. Val

Answer: D



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69. The correct structure and regulatory proteins of muscles are

- A. Structural Regulatory
Troponin Tropomyosin
- B. Structural Regulatory
Troponin Actin
- C. Structural Regulatory
Tropomyosin Actin
- D. Structural Regulatory
Actin Troponin

Answer: D



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70. The shape of seed and starch grain size in *Pisum sativum* is controlled by gene Bb, so the inheritance of seed shapes shown

relationship, while the inheritance of starch grains show

A. Dominant recessive , codominance

B. Incomplete dominance, codominance

C. Dominant-recessive , incomplete
dominance

D. Codominance, incomplete dominance

Answer: C



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71. The adrenocorticotrophic hormone secreted by anterior pituitary stimulates the secretion of :

- A. Glucocorticoids from adrenal glands
- B. Adrenaline from adrenal gland
- C. Epinephrine from adrenal gland
- D. Adrenaline from nephrons

Answer: A



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72. Select the incorrect statement from the following. In birds, the chromosomes composition of the sperm determines the sex of the progeny.

A. In birds, the chromosomes composition of the sperm determines the sex of the progeny.

B. Cystic fibrosis is Mendelian disorder.

C. Increases in a whole set of chromosomes in an organism is known as polyploidy.

D. Down's syndrome is chromosomal disorder and is due to trisomy of chromosome 21st.

Answer: A



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73. Carbohydrates are the most abundant biomolecule Present on earth .Then are produced by

A. Some bacteria , algae and green plants cells .

B. Fungi , algae and green plant cells.

C. all bacteria , fungi and algae.

D. Viruses , fungi and bacteria .

Answer: A



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74. Which of the following Structure has the highest concentration of cone cells ?

A. Fovea centralis

B. Blind spot

C. Ciliary body

D. Choroid

Answer: A



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75. Enzymes having slightly different molecular structure but performing identical activity are called

A. holoenzymes.

B. isoenzymes.

C. apoenzymes.

D. Coenzymes.

Answer: B



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76. Which of the following phylum have organisms that are exclusively marine ?

A. Aschelminthes

B. Echinodermata

C. Arthropoda

D. Annelida

Answer: B



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77. Prophase -I of meiosis is a long and complex phase in which many events occurs .

Arrange the following events of meiosis in the correct sequence and select correct option.

(i) Crossing over

(ii) Synapsis

(iii) Terminalization of chiasmata

(iv) Disappearance of nucleolus

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

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

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

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

Answer: D



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78. All the following pairing of type of aestivation and its example is incorrect, expect

A. Valvate - Cassia

B. Twisted - china rose , ladyfinger,

Calotropis

C. Imbricate - Cassia and Gulmohar

D. Vexillary - pea , bean , Aloe , tulip

Answer: C



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79. Select the correct matching :

Column I

Column II

- | | |
|---------------|--------------------------|
| (A) Alternate | 1. China rosa , mustard, |
| (B) Whorled | 2. Alstonia |
| (C) Opposite | 3. Calotropis and guava |

A. A - 1 , B - 2 , C - 3

B. A - 3, B - 2, C - 1

C. A - 3, B - 1, C - 2

D. A - 3, B - 2, C - 1

Answer: A



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80. Select the incorrect matching .

A. Ornamental - Tulip , Gloriosa , Lupin ,
sweet ,pea , petunia

B. Medicine - Muliathi , belladonna, Aloe

C. Fodder - Sesbania , Trifolium

D. Edible oil - soyabean , groundnut ,
colchicine

Answer: D



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81. Daughter cells formed after mitosis resemble to their mother cell but daughter

cells formed after meiosis different from mother cells:

A. Quantitatively

B. Qualitatively

C. Functionally

D. More than one option is correct

Answer: D



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82. Which of the following cells organelle of the eukaryotic cell shown fission ?

A. Endoplasmic reticulum

B. Golgi body

C. Lysosome

D. Plastids

Answer: D



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83. Read the following statements (I -iii)

(i) The outer and inner membrane of mitochondria has its own specific enzyme .

(ii) Mitochondria is the site of aerobic respiration.

(iii) The stroma contains different enzymes for Tricarboxylic acid cycle

How many of the given Statements are correct ?

A. One

B. Two

C. Three

D. None

Answer: B



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84. Both centrioles in a centrosome lie(i)
.....to each other and each of them contains
.....(ii).....peripheral fibril so(iii)
.....array is present .

A. (i) parallel (ii) Triplet (iii) 9+0

B. (i) Perpendicular (ii) Doublets (iii) 9+0

C. (i) Parallel (ii) Doublet (iii) 9+0

D. (i) Perpendicular (ii) Triplet (iii) 9+0

Answer: D



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85. Which one of the following growth regulators is known as 'stress hormone' ?

A. Abscisic acid

B. Ethylene

C. GA3

D. Indole acetic acid

Answer: A



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86. Male gametes in angiosperms are formed by :

- A. Mitotic division in vegetative cell
- B. Meiotic division in pollen mother cell
- C. Meiotic division in vegetative cell
- D. Mitotic division in generative cell

Answer: D



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87. Pollination by water is

A. rare in flowering plants,

B. limited to about 30 genera.

C. most of the genera are monocotyledons.

D. all the above

Answer: D



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88. Acid rain is caused because of

A. excess NO_2 and SO_2 released from

burning of fossil fuels

- B. excess production of NH_3 by industry and coal gas
- C. excess release of carbon monoxide by incomplete combustion in industries.
- D. excess formation of CO_2 by combustion and animal respiration.

Answer: A



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89. Select the incorrect statement from the following.

A. Most of the forests have been lost in tropical areas.

B. Ozone in upper part of atmosphere is bad ozone and harmful to animals .

C. Greenhouse effect is a natural phenomenon which heats the earth's atmosphere.

D. Eutrophication is a natural phenomenon in freshwater bodies which causes natural ageing of lakes.

Answer: B



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90. Which of the following has statocyst as balancing organ ?

A. Aurelia

B. Taenia

C. Pleurobrachia

D. Ascaris

Answer: C



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