



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 66

Biology

1. Which one of the following is the matching pair of a sanctuary and its main protected wild animal

A. Gir-Lion

B. Sariska - tiger

C. Sunderban - Rhino

D. Kaziranga-Musk deer

Answer: A



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2. Embryos are the

- A. Embryos produced from the culture of somatic plant cells
- B. Plants produced after hardening
- C. Plants which show totipotency
- D. Young embryos

Answer: A



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3. Free central placentation is found in

A. Lemon

B. Papaya

C. Primrose

D. Dianthus

Answer: A



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**4. Majority of proteins (of intracellular use)
are not synthesized on :**

A -Ribosomes produced in the nucleolus

B - Ribosomes attached with ER and nuclear membrane

C - Free ribosomes of eukaryote cells

D - Ribosomal sub- units forming polyribosomes

E - Ribosomal sub- units forming polyribosomes Which are found in perimitochondrial space of prokaryotic cells

A. A and D

B. B,C and D

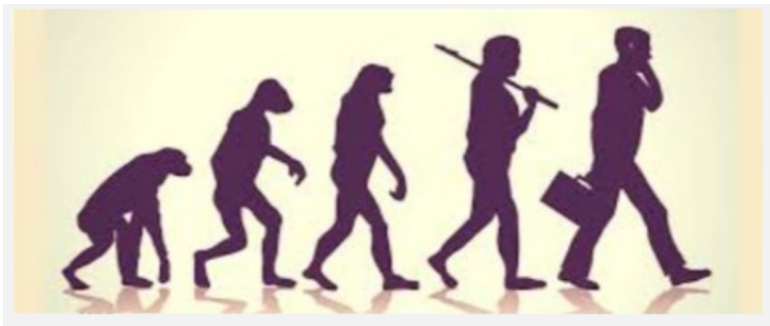
C. D and E

D. A , C and E

Answer: A

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5. The study related to the given below pictorial representation is



A. Sociology

B. Geography

C. Demography

D. Anthropology

Answer: D



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6. Which one of the following is an example of cleistogamy ?

A. Sunflower

B. Vallisneria

C. Viola

D. Calatropis

Answer: C



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7. Milk is converted into curd by :

A. *Acetobacter aceti*

B. *Bacillus megatherium*

C. *Xanthomonas citri*

D. None of these

Answer: D



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8. Which of the following groups is absolutely essential functional component of the ecosystem?

A. Producers

B. Producers and herbivores

C. Producers and detritivores

D. Detritivores

Answer: C



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9. Avena coleoptile test detects the presence of

A. IAA

B. GA

C. NAA

D. BAP

Answer: A



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10. Polysemy is prevented by all the events ,
except

- A. Electrical changes in the egg membrane,
depolarisation
- B. Cortical reaction
- C. Zona reaction
- D. Sodium gates in the egg membrane
getting close

Answer: D



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11. The correct representation of the pyramid is ,

A. Pyramid of energy in the grassland ecosystem

B. Pyramid of biomass in the grassland ecosystem

C. Pyramid of energy in temperature ecosystem

D. Pyramid of energy in the tropical ecosystem

Answer: A



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12. Which of the following statement are false ?

(a) Most cells are tiny with volume range of $1 - 100nm^3$

(b) Some cells have microvilli to increases the

absorptive surface area

(c) All cells arise from pre-existing cells

(d) In plants, translocation of solutes is performed by xylem vessels and tracheids

(e) According to cell theory, all cells arise from abiotic material

A. I, III and V are false

B. I, IV and V are false

C. II, III and IV are false

D. III, IV and V are false

Answer: B



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13. Two bacteria found to be very useful in genetic engineering experiment are

A. *Caenorhabditis* and *Agrobacterium*

B. *Nitrobacter* and *Azotobacter*

C. *Rhizobium* and *Agrobacterium*

D. *Nitrosomonas* and *Klebsiella*

Answer: A



14. The early stage human embryo distinctly possesses

- A. Gills
- B. Gill slits
- C. External ear (pinna)
- D. Eye brows

Answer: B



15. Respiration is a

A. Photochemical oxidation

B. Oxidation reaction

C. Photophosphorylation

D. None of the above

Answer: B



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16. Statement I : Lysosomes are Membrane-bound structures.

Statement II : These are golgian vacuoles.

A. Both the statements are false

B. Both the statement are true

C. Statement I is true and statement -II is false

D. Statement I is to false and statement II is true

Answer: B



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17. Identify the wrong statement in context of heartwood

- A. Organic compounds are deposited in it
- B. It is highly durable
- C. It conducts water and minerals efficiently
- D. It comprises dead elements with highly lignified walls

Answer: C



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18. Which is not a symptom of exophthalmic goitre?

- A. Rapid heart beat
- B. Protrusion of eyeball
- C. Frightened look to the patient
- D. Both a and b

Answer: D



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19. Siphonogamous fertilization takes place in

A. Bryophytes

B. Selaginella

C. Fern

D. Pinus

Answer: D



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20. C_4 plants are most efficient plants to tropical climate and

A. Shows photorespiration

B. have large number of Chloroplasts and thick walls of bundle sheath cells

C. From 4-C organic acids in bundle sheath cell

D. Perform primary CO_2 fixation in bundle sheath cells

Answer: B



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21. Which one of the following is related to Ex-situ conservation of threatened animals and plants?

A. Wildlife Safari parks

B. Biodiversity hot spots

C. Amazon rainforest

D. Himalaya region

Answer: A



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22. Archeopteryx a transitional fossil between birds and reptiles was discovered from the rocks of following period

A. Jurassic

B. Archeozoic era

C. Cretaceous

D. Triassic

Answer: A



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23. Complex formed at the time of action of T-cells is

A. HLA

B. STD antigen complex

C. HLA antigen complex

D. MHC antigen complex

Answer: D



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24. The gram negative bacteria detect and responded to chemicals in their surroundings by

A. Volutin granules

B. lipopolysaccharide

C. muramic acid

D. Porins

Answer: D



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25. An example of plant growth promoting Gram - negative bacterium, which is pleomorphic in nature is

A. Pseudomonas

B. Rhizobium

C. Aspergillus

D. Azospirillum

Answer: B



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26. Tubectomy is a method of sterilization in which :

A. Small part of the fallopian tube is removed or tied up .

B. Ovaries are removed surgically .

C. Small part of vas deferens is removed tied up.

D. Uterus is removed surgically.

Answer: A



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27. Afferent nerve fibres carry impulses from

A. Effector organ to CNS

B. Receptors to CNS

C. CNS to receptors

D. CNS to muscles

Answer: B



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28. Among the five classes of immunoglobulins in humans, the one that is secretory in nature is

A. Ig A

B. Ig E

C. Ig M

D. Both a and c

Answer: 4



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29. Which of the following statements is false ?

A. Tissues exist within organs which exist within organ systems .

B. Communities exist within populations which exist within ecosystems.

C. Organelles exist within cells which exist within tissues.

D. Communities exist within ecosystems which exist in the biosphere.

Answer: B



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30. The study of the energy transfer and relationships between all living organisms is known is

A. Thermodynamics

B. Biogenetic

C. Kinetic energy

D. Potential energy

Answer: A



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31. The genotypes of a plant variety were $TtHh$, $Ttth$, $ttHh$ and $tthh$, where T = tallness and H = hairy stem. Which one of the following crosses

would produce progeny giving a phenotypic ratio approximately 1:1:1:1 ?

A. $TtHh \times TtHh$

B. $TtHh \times Tthh$

C. $TtHh \times Hh$

D. $TtHh \times hh$

Answer: D



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32. Which of the following pair is correct ?

- A. Mn - formation of chlorophyll
- B. P - required in meristematic tissues
- C. Ca - formation of the mitotic spindle
- D. Cu - synthesis of auxin

Answer: C



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33. All enzymes of TCA cycle are located in the mitochondrial matrix except one which is located in inner mitochondrial membranes in eukaryotes and in cytosol in prokaryotes. This enzyme is

- A. Isocitrate dehydrogenase
- B. Malate dehydrogenase
- C. Succinate dehydrogenase
- D. Lactate dehydrogenase

Answer: C



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34. Which one of the following statement is wrong in case of Bhopal tragedy ?

A. Methyl Isocyanate gas leakage took place

B. Thousands of human beings died

C. Radioactive fall out engulfed Bhopal

D. It took place in the night of December 2

/3 1984.

Answer: C



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35. The two polypeptides of human insulin are linked together by

- A. Hydrogen bonds
- B. Phosphodiester bond
- C. Covalent bond
- D. Disulphide bridges

Answer: D



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36. Which of the following excretory organs is found in crustaceans ?

- A. Flame cells
- B. Nephridia
- C. Green glands
- D. Malpighian tubules

Answer: C



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37. What is the number of extinct animals documented by the IUCN Red List(as per 2004) in the last 500 years ?

A. 338

B. 359

C. 2000

D. 784

Answer: D



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38. Which of the following is a secondary metabolite as well as a drug ?

A. Concanavalin A

B. Vinblastine

C. Diterpenes

D. Ricin

Answer: B



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39. Select the wrong statement from the following .

A. Ribozymes are nucleic acids with catalytic power .

B. Nucleic acids serve as genetic material .

C. Proteins , nucleic acids and polysaccharides are the only three of macromolecules found in the living system.

D. Collagen is the most abundant protein in the whole of the biosphere and RuBisCo is the most abundant protein in the as animal world .

Answer: D



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40. Find the mismatch from the following pairs.

A. Joint between carpal and metacarpal of thumb - Gliding joint

B. Joint between humerus and pectoral girdle - Ball and socket joint .

C. Hinge joint - joint in the elbows

D. Joint between atlas and axis - pivot joint

Answer: A



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41. Restriction endonuclease (EcoRI) enzyme cut the strand of DNA

A. From the centre of the palindromic sequence .

B. a little away from the centre of the palindromic sequence

C. a little away from recognition site.

D. cuts only single-stranded DNA

Answer: A



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42. If due to some injury the chordae tendineae of the tricuspid valve of the human heart is partially non-functional, what will be the immediate effect ?

- A. The flow of blood into the aorta will be slowed
- B. The 'pace maker' will be stop working
- C. The blood will tend to flow back into the left atrium
- D. The flow of blood into the pulmonary artery will be reduced

Answer: D



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43. Switch off the following barrier methods are reusable ?

A. Condoms

B. LNG-20

C. Cervical caps

D. Lippes loop

Answer: C



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44. Which of the following is the odd one out ?

A. Mitochondria

B. Chloroplast

C. Bacteriophage

D. Tobacco mosaic virus

Answer: D



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45. In succulent plants, the stomata open in the night and close in the day . which among the following would be the best hypothesis to explain the Mechanism of stomatal in the night only?

A. CO_2 accumulates, reduces pH, stimulate enzymes resulting in accumulation of sugars.

B. Increases in CO_2 concentration , conversion of organic acids into starch

resulting in the increased conversation
into sugars resulting in K^+ transport

C. Low CO_2 concentration accumulates
organic acids resulting in the increased
conversion into sugars resulting in K^+
transport.

D. CO_2 used up , increase pH results in
accumulation of sugars.

Answer: B



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46. Which one of the following statements is correct ?

A. The seed in grasses is not endospermic.

B. Mango is a Parthenocarpic fruit.

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

D. A sterile pistil is called a stamionde.

Answer: C





47. In a hierarchical system of plant classification . Which one of the following taxonomic ranks generally ends in *ceae*

A. Family

B. Genus

C. order

D. class

Answer: A



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48. What are the characteristics of an ideal contraceptive?

a. User-friendly

b. Easily available

c. Effective

d. Reversible

e. No or least side effects

r. No way to interfere with the sexual drive, desire and/ or the sexual act of the user.

Cheap

A. (a),(b),(e)

B. (b),(c),(e)

C. (a),(d),(e)

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

Answer: A



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49. Form the following statements, selected the wrong one .

A. Nematocysts are characteristic of the phylum cnidaria

B. Millepedes have two pairs of appendages in each segment of the body

C. Animals belonging to phylum porifera are marine and fresh water .

D. Prawn has two pairs of antenna

Answer: D



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50. Mendel did not recognise phenomenon of linkage in his experiments because

A. he did not have up powerful microscope.

B. he studied only pure plants.

C. there were many chromosomes to handle .

D. the studied characters were located on different chromosomes .

Answer: D



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51. Which of the following represents the edible part of the fruit of litchi ?

A. Mesocarp

B. Endocarp

C. Pericarp

D. Aril

Answer: D



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52. In human beings , the hollow ball of cells called a , about b days after fertilisation , burrows into the lining of uterus event called implantation. Blanks a , b respectively are

A. Morula, six

B. Blastula , seven

C. Blastocyst seven

D. Gastrula , seven

Answer: C



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53. Prophase of the first meiotic division is typically longer on complex. It is subdivided into 5 phases , leptotene, zygotene, pachytene,diplotene and diakinesis. Which of the following statements is not correct of these phases ?

A. The formation of synaptonemal complex is seen during zygotene stage .

B. The stage of pachytene is characterised by appearance of recombination nodules .

C. Diplotene stage is marked by terminalisation of chiasmata .

D. The compaction of chromosomes continues throughout the leptotene.

Answer: C



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54. In the five- kingdom classification , which kingdom occupies an intermediate position from a phylogenetic point of view ?

A. Monera

B. Protista

C. Plantae

D. None of these

Answer: B



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55. The Fertilization involving the carrying of male gametes by the pollen tube is called

- A. Porogamy
- B. Siphonogamy
- C. Chalazogamy
- D. Syngonogamy

Answer: B



56. Test cross is when

- A. F_1 crossed with heterozygous parent
- B. F_1 crossed with heterozygous dominant parent
- C. F_1 crossed with homozygous recessive parent
- D. F_1 crossed with homozygous parent

Answer: C



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57. Vertebral formula for human beings is

A. $C_5T_{12}L_7S_5C_{3-5} = 33 - 35$

B. $C_7T_{12}L_5S_5C_{3-5} = 33 - 35$

C. $C_5T_{10}L_5S_5C_{3-5} = 33$

D. $C_7T_{10}L_5S_5C_{3-5} = 33$

Answer: B



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58. When secondary growth in thickness is initiated in a dicot root, which of the following happens first ?

A. Anticlinal division occurs so that cambium become circular

B. Paranchyma between xylem and phloem becomes meristematic

C. Cambium initial between xylem and phloem divides

D. Pericycle strands outside primary xylem

divide

Answer: B



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59. Which disease is caused by the deficiency of thyroxin in the adults

A. Diabetes incipidus

B. Cretinism

C. Myxoedema

D. Exophthalmic goitre

Answer: C



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60. Given below are four statements (A-D) each with two blanks. Select the option which correctly fills up the blanks in two statements.

I. 1100-1200

II. 1/5th

A. During a cardiac cycle each Ventricle pumps out approximatelyi.....of blood which is called as theii...

B. The first heart sound (lub) is associated with the closure of thei..... valves whereas , the second heart sound (dud) is associated with the closure of theii..... Valves .

C. On an averagei.....ml of blood is filtered by the kidneys per minute which

constitute roughlyii.....of the blood pumped out by each ventricle of the heart in a minute .

D. A comparison of the volume of the filtrate formed per dayi.....litres with that of the urine released suggests that nearlyii.....of the filtrate has to be reabsorbed by the renal tubules .

Answer: C



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61. Which of the following checkpoint is predominantly activated when the DNA has started forming replication fork ?

A. G_1 / S_1

B. G_2 / M

C. M

D. Both G_2 / M and M

Answer: A



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62. Which of the following has the lowest cranial capacity ?

A. Homo erectus

B. Homo habilis

C. Modern man

D. Neanderthal man

Answer: B



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63. A multicellular, filamentous alga exhibits a type of sexual life cycle in which the meiotic division occurs after the formation of zygote.

The adult filament of this alga has

A. Haploid vegetative cells and diploid gametangia

B. Diploid vegetative cells and diploid gametangia

C. Diploid vegetative cella and haploid gametangia

D. Haploid vegetative cella and haploid gametangia

Answer: D



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64. Generally how many megaspores take part in the development of female gametophyte?

A. One

B. Two

C. Three

D. Four

Answer: A



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65. Lens of eyes is derived from

A. Ectoderm

B. Mesoderm

C. Endoderm

D. Both (mesoderm) and (endoderm)

Answer: A



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66. Entamoeba differs from Amoeba is not having

A. Nucleus

B. Pseudopodia

C. Ectoplasm

D. Contractile vacuole

Answer: D



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67. The nucleases Cleaving nucleotides one at a time from the end of the Polynucleotide chain are :

A. Specific for '5' end of RNA strand

B. Specific for '3' end of RNA strand

C. Specific for both '5' and '3' ends of
nucleotides strands

D. Non-Specific for both '5' and '3' ends of
nucleotides strands

Answer: C



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68. In prokaryotes , which ribozyme helps in peptide bond formation ?

A. 18S rRNA

B. 16S rRNA

C. 23S rRNA

D. 28S rRNA

Answer: D



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69. Which of the following layer of anther wall helps in protection as well as in the dehiscence of anther for the release of pollen grains ?

A. Epidermis

B. Tapetum and endothelium

C. Endothelium only

D. Outer three layers of anther wall

Answer: D



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70. Which of the following is correct ?

A. The H^+ released from carbonic acid and haemoglobin to form haemoglobinic acid.

B. Oxyhaemoglobin of erythrocytes is alkaline .

C. More than 70% of carbon dioxide is transferred from tissue to the lungs to form carbamino compounds .

D. In a healthy person , the haemoglobin content is more than 25gm per 100 mL .

Answer: A



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71. Bean seeds were planted and put on a sunny windowsill. As the plants grew, their stems bent toward the window. This bending was most likely caused by an

A. Unequal distribution of auxin in the stem .

B. Unequal distribution of a neurotransmitter in the stem.

C. Equal distribution of a auxin in the stem.

D. Equal distribution of a neurotransmitter in the stem.

Answer: A



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72. Which cartilage is present at the end of long bones?

- A. Calcified cartilage
- B. Hyaline cartilage
- C. Elastic cartilage
- D. Fibrous cartilage

Answer: B



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73. The principal agent of alcoholic fermentation and bread making is :

- A. Schizosaccharomyces octosporous
- B. saccharomyces cerevisiae
- C. saccharomyces ellipsideus
- D. Both (B) and (C)

Answer: B



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74. Simple epithelium is a tissue in which the cells are

A. hardened and provide support to the organs .

B. Cemented directly to one another to form a single layer .

C. Continuously dividing to provide form to an organ .

D. loosely connected to one other to from
an irregular organ.

Answer: B



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75. In pea plants, yellow seeds are dominant to green. If a heterozygous yellow seeded plant is crossed with a green seeded plant, what ratio of yellow and green seeded plants would you expect in F_1 -generation?

A. 9: 1

B. 1: 3

C. 3: 1

D. 50: 50

Answer: D



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76. The stomata open and close due to

A. turgor pressure change .

B. hormonal change .

C. temperature change.

D. all of the above .

Answer: D



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77. Secretin stimulates the production of

A. Saliva .

B. gastric juice .

C. bile .

D. Pancreatic juice .

Answer: D



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78. A man with a certain disease marries a normal woman. They have eight children (3 daughters and 5 sons). All the daughters suffer from their father's disease but none of the sons are affected. Which of the following

mode of inheritance do you suggest for this disease?

- A. Sex - linked recessive
- B. Sex - linked dominant
- C. Autosomal dominant
- D. Sex - limited recessive

Answer: B



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79. Which of the following enzymes affect the process of synthesis of new DNA chain?

A. Restriction endonuclease

B. Mutase

C. Ribonuclease

D. Polymerase I

Answer: D



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80. Intercostal muscles are attached to :

A. Abdomen

B. Thigh

C. Ribs

D. Diaphragm

Answer: C



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81. Read the following sentences and select the correct option with all true statements.

i. During parturition , oxytocin induces intense contractions in the uterus.

ii. After parturition oxytocin stimulates milk ejection.

iii . The labour pain of during child-birth is due to oxytocin .

iv. oxytocin is secreted from placenta and ovary .

A. Statement i, ii, and iv

B. Statement i, ii, and iii

C. Statement iii and iv

D. Statement i and iii

Answer: B



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82. A bacterial cell was transformed with a recombinant DNA that was generated using a human gene. However, the transformed cells

did not produce the desired protein. Reason could be

A. Human gene might have intron which bacteria cannot process

B. Amino gene codons for humans and bacteria are different

C. Human protein is formed but degraded by bacteria

D. All of the above

Answer: A



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83. Synthesis of mRNA is :

A. Transcription

B. Translation

C. Translocation

D. Transduction

Answer: A



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84. The animal group, where the adults are degenerated but larvae are well developed, is

A. Agnatha

B. Tunicate

C. Amphibians

D. Cephalochordates

Answer: B



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85. Productivity is the rate of production of biomass expressed in terms of

(i) $(\text{kcal m}^{-3}) \text{yr}^{-1}$

(ii) $g^{-2} \text{yr}^{-1}$

(iii) $g^{-1} \text{yr}^{-1}$ (iv) $(\text{kcal m}^{-2}) \text{yr}^{-1}$

A. (ii)

B. (iii)

C. (ii) and (iv)

D. (i) and (iii)

Answer: C



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86. How carbon monoxide, emitted by automobiles, prevents transport of oxygen to the body tissues?

A. By destroying the hemoglobin

B. By forming a stable compound with hemoglobin

C. By obstructing the reaction of oxygen with hemoglobin

D. By changing oxygen into carbon dioxide

Answer: B



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87. Dichotomous branching is found in

A. Pteridophytes

B. Fern

C. Liverworts

D. Funaria

Answer: C



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88. After vaccination, the body builds up

A. Toxins

B. Lymph

C. Antibodies

D. Plasma

Answer: C



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89. statement-I : $2A + X0$ genotype represents turner syndrome in woman .

Statement-II : $2A + X0$ genotype is normal male in grasshopper .

A. Only Statement-I is correct

B. Only Statement-II is correct

C. Both Statement-I and statement-II are correct .

D. Both Statement-I and statement-II are incorrect .

Answer: C



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90. Which of the following does not show divergent evolution?

A. Brain of bat , man and cheetah

B. Heart of bat , man and cheetah

C. Forelimbs of man , bat and cheetah

D. Eye of Octopus , bat and man

Answer: D



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