



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET TEST 102

Biology

1. The protozoa are having an infectivestage in their life cycle. An example of Protozoa is the genus ..., which causes malaria.

A. cillates, cyst , paramecium

B. flagellates, spore , plasmodium

C. parasites , cyst , plasmodium

D. parasites , spore , Trypanosome

Answer: C



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2. Moss peat is used as a packing material for sending flowers and live plants to distant places because

A. it is easily available

B. it reduces transpiration

C. it is hygroscopic

D. all of the above

Answer: C



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3. Which of the following statements about the plasma membrane is TRUE ?

A. It allows selected molecules to pass into and out of the cell .

B. It is a rigid and unmoving layer of phospholipids and protein .

C. It is a solid layer of protein that protects the contents of the cell.

D. The plasma membrane of a bacterium has none of the same components as the plasma membrane of an animal cell.

Answer: A



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4. Which of the following option is not correct for the post fertilization changes ?

A. PEN - Endosperm

B. Ovary = Fruit

C. Funicle = stalk of seed

D. Integument = Pericarp

Answer: D



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5. Consider the following statements

A. Mustard flower is hypogynous

B. Rose flower is perigynous

C. China Rose flower is hypogynous

Which of the statements given above is/are correct ?

A. A and C

B. B and C

C. A, B & C

D. None

Answer: C



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6. Stele includes all of these except

A. pericycle

B. vascular

C. pith

D. endodermis

Answer: D



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7. In terms of permeability , the cell wall and plasmalemma are :

A. permeable and differentially permeable respectively

B. both semipermeable or selectively permeable

C. semipermeable and differentially permeable

D. both differentially permeable

Answer: A



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8. The major role of minor element inside living organisms is to act as:

- A. binding factor of cell structure
- B. co-factors of enzymes
- C. building blocks of important amino acids
- D. constituent of hormones

Answer: B



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9. Match the following with a CORRECT combination .

- | | |
|------------------------|---------------------|
| A. Carboxylation | 1. Oxygen evolution |
| B. Phosphorylation | 2. Photorepiration |
| C. Photolysis of water | 3. Rubisco |
| D. Phosphoglycolate | 4. Chemosynthesis |
| E. Nitrosomonas | 5. ATP |

A. A-1 , B - 2 , C - 3 , D - 4 , E - 5

B. A-3 , B - 5 , C - 1 , D - 2 , E - 4

C. A-3 , B - 2 , C - 5 , D - 4 , E - 1

D. A-5 , B - 3 , C - 4 , D - 2 , E - 1

Answer: B



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10. During the process of aerobic respiration (i) gets oxidised and its electrons get transferred to the electron transport chain while in photosynthesis, (ii) gets oxidised to transfer molecules to the electron transport chain.

- A. (i)- glucose, , (ii)-Xanthophyll
- B. (i)- carbon dioxide, , (ii)-Xanthophyll
- C. (i)- carbon dioxide, , (ii)-chlorophylla-a
- D. (i)- glucose, , (ii)-chlorophylla-a

Answer: D



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11. Certain plants need to be exposed to low temperature ' so as to hasten flowering later in life. This treatment is known as

- A. stratification
- B. scarification
- C. vernalisation
- D. photoperiodism

Answer: C



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12. Which of these is correct about petunia ?

A. It is a genus under the family solanaceae and order polymoniales .

B. It is a genus under the family Anacardiaceae and order polymoniales .

C. It is a genus under the family solanaceae and order Sapindales .

D. It is a species under the family solanaceae and order polymoniales .

Answer: A



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13. The thick part of the choroid layer forms

A. cornea

B. iris

C. ciliary body

D. ganglion

Answer: C



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14. Marchantia is a

A. monoecious plant

- B. dioecious in nature
- C. heterosporous plants
- D. phanerogamous plant

Answer: B



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15. Golgi apparatus is absent in

- A. yeast
- B. liver cells
- C. higher plants
- D. blue-green algae

Answer: D



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16. Plant cells lack

A. centrioles

B. asters

C. spindle fibres

D. all the three

Answer: D



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17. Which underground stem helps in the storage of food and perennation ?

A. Colocasia

B. Zamikand

C. Turmeric

D. All of these

Answer: D



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18. Which one of the following is not a characteristic for meristematic cells?

- A. Presence of intercellular spaces
- B. Thin cellulosic cell walls
- C. Presence of prominent nucleus
- D. High metabolic rate

Answer: A



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19. PGA as the first CO_2 fixation product was discovered in photosynthesis of

- A. alga
- B. bryophytes

C. gymnosperms

D. angiosperm

Answer: A



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20. Which step is called gateway step/link reaction in aerobic respiration?

A. Glycolysis

B. Formation of acetyl coenzyme A

C. Citric acid formation

D. ETS terminal oxidation

Answer: B



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21. Read the following statement and find out INCORRECT statement .

(a) Both a short day plant and a long day plant can flower simultaneously in a given place .

(b) Sugar beet cabbage and carrot are common biennials .

(c) Some important food plants, wheat, barley , and rye have three kinds of varieties : winter, summer, and spring varieties

(d) Many of the intrinsic factors such as temperature and light , control plants growth and development.

A. a and d

B. b and c

C. c and d

D. d and e

Answer: C



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22. In a 5 0 kingdom classification system , the kingdom that includes the photorophus , chemotrophs, and

heterophs, is

A. Animalia

B. Fungi

C. Protista

D. Monera

Answer: D



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23. The phospholipid present in the cell membrane has

A. hydrophilic head and hydrophobic tails

B. hydrophobic head and hydrophilic tails

C. hydrophilic head and hydrophilic tails

D. hydrophobic head and hydrophobic tails

Answer: A



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24. One can distinguish a leaflet from leaf by the absence of

A. midrib

B. petiole

C. axillary bud

D. venation

Answer: C



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25. A slide under microscope shows following features:

(i) Unicellularity

(ii) Well defined nucleus

(iii) Biflagellate-one flagellum lying longitudinally and the other transversely

what would you identify it as?

A. Protozoan

B. Bacterium

C. Euglenoid

D. Dinoflagellate

Answer: D



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26. Genetic modification (GM) has been used to

A. create tailor made plants

B. supply alternative resources to industries

C. enhanced nutritional value of food

D. all of these

Answer: D



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27. Which part of alimentary canal of cockroach has an outer layer of thick circular muscles and inner cuticle forming six highly chitinous plates called teeth?

A. Gizzard

B. Crop

C. Proventriculus

D. Both (a) and (c)

Answer: D



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28. Which hormone maintains progesterone and estrogen secretion by the corpus luteum through the first trimester of pregnancy ?

A. LH

B. FSH

C. hCG

D. GnRH

Answer: C



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29. Examples of diseases related to lifestyle include all ,
EXCEPT

A. liver cirrhosis

B. emphysema

C. obesity

D. pneumonia

Answer: D



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30. Balanoglossus has

A. no - coelom

B. well developed coelom

C. reduced coelom

D. coelom only in embryonic stage

Answer: B



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31. A woman accidentally touched a hot pan without wearing a pair of mittens. On contact she immediately yanks her hand away.

Select the CORRECT statement with respect to the above phenomenon.

- A. The signal received from the sensory organ is carried into the CNS.
- B. The afferent neuron receives the signal from the sensory organ.
- C. The impulse is transported via a dorsal nerve root to the spinal cord.
- D. The impulse is transported via a dorsal nerve root to the PNS

Answer: C



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32. Which of the following is not a symptom of hypothyroidism ?

A. Oedema

B. Lethargy

C. Rise in blood urea

D. Mental retardation

Answer: C



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33. Find the INCORRECT match with respect to the location of the bone in the body.

A. Carpals - Wrist

B. Tibia - Hind limb

C. Tarsals - Ankle

D. Patella - Pelvis

Answer: D



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34. If a person is suffering from severe male infertility due to very few sperms (oligospermia) in the ejaculate , it can be overcome by the use of

A. GIFT

B. ZIFT

C. ICSI

D. Both (B) and (C)

Answer: D



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35. Which reptile went back into water to evolve into fish like reptile?

A. Ichthyophis

B. Stegosaurus

C. Ichthyosaurs

D. Triceratops

Answer: C



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36. Which of these cannot be related to biotechnology ?

A. Integration of natural science and organisms.

B. Techniques to alter the chemistry of DNA.

C. Introduction of undesirable genes into the target organisms

D. Maintenance of sterile ambience to enable the growth of only the desired microbes.

Answer: C



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37. Which of the following does not have the lipase enzyme for the digestion of lipids

A. Stomach

B. pancreas

C. small intestine

D. large intestine

Answer: D



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38. The dialysing unit (artificial kidney) contains a fluid which has a similar composition to plasma, except it has.....such a step-up is used as the cure for

- A. high glucose, nephritis
- B. high amino acids, renal failure
- C. no urea, uremia
- D. no uric acid , renal calculi

Answer: C



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39. Many elements are found in living organisms either free or in the form of compounds. One of the following is not found in living organisms.

A. Silicon

B. Magnesium

C. Iron

D. Sodium

Answer: A



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40. Which of the following is sets of option depicts the total volume of area accommodated in the lungs at the end of a forced inspiration and the expression to calculate the same ?

- A. Total lung capacity : $VC + RV$
- B. Expiratory capacity : $TV + ERV$
- C. Vital capacity : $FRC + TV$
- D. Inspiratory capacity : $TV + IRV$

Answer: A



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41. If person is running on a treadmill, the duration of his cardiac cycle will be

A. greater than 0.8 sec

B. less than 0.8 sec

C. equal to 0.8 sec

D. close to 1.0 sec

Answer: B



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42. The cells of the main structural tissue of the body are present in particular spaces called

A. ampulla

B. lacunae

C. lamellea

D. Canaliculi

Answer: B



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43. Spermatogenesis starts at the age of puberty due to significant increase in the secretion of

A. somatostatin from hypothalamus

B. GnRH from hypothalamus

C. GnRH from the anterior pituitary

D. sexcorticoids from the adrenal gland

Answer: B



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44. Read the symptoms given below and identify the disease.

"Constipation, abdominal pain, cramps, stools with excess mucous and blood clots"

A. Ascariasis

B. Amoebic dysentery

C. Chikungunya

D. Filariasis

Answer: B



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45. Respiratory organs of whale are

A. book lungs

B. lungs

C. gills

D. skin

Answer: B



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46. The iris of the eye is like an extension of

A. retina

B. cornea

C. sclerotic

D. choroid

Answer: D



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47. Which hormone possesses anti-insulin effect'?

A. Cortisol

B. Calcitonin

C. Oxytocin

D. Aldosterone

Answer: A



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48. Smooth muscles are

A. involuntary, spindle shaped, uninucleated,
tapering

B. voluntary, multinucleated and cylindrical

C. involuntary, cylindrical, multinucleate

D. voluntary, branched, uninucleated

Answer: A



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49. A couple is unable to bear a child despite having unprotected coitus . They decided to have a test - tube baby. On being diagnosed, the the doctor advised them for a technique which requires the transfer of an

embryo with more than 8 blastomeres. Identify the technique adopted by the couple.

A. ICSI

B. IUT

C. ZIFT

D. AI

Answer: B



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50. The cranial capacity of *Homo habilis* was about

A. 560 c.c.

B. 700 c.c.

C. 1,300 c.c.

D. 1,000 c.c.

Answer: B



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51. Chimeric DNA is

A. DNA which contain uracil

B. DNA synthesized from RNA

C. recombinant DNA

D. DNA which contain single strand

Answer: C



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52. In DCT, antidiuretic hormone makes the filtrate
to blood plasma.

- A. hypertonic
- B. hypotonic
- C. isotonic
- D. Both (A) and (B)

Answer: A



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53. Which amino acid among the following is non - essential ?

A. Phenylalanine

B. Leucine

C. Tryptophan

D. Tyrosine

Answer: D



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54. Mark the true statement among the following with reference to normal breathing.

A. Inspiration is a passive process where as expiration is active

B. Inspiration is an active process where as expiration is passive.

C. Both inspiration and expiration are active processes

D. Both inspiration and expiration are

Answer: B



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55. A soluble clotting factor that is made insoluble by thrombin is

A. prothrmbin

B. fibrinogen

C. fibrin

D. calcium ions

Answer: B



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56. The three phases of the uterine cycle in order are

A. Menstrual → Luteal Ovulatory

B. Follicular → Luteal → Ovulatory

C. Menstrual → Proliferative → Ovulatory

D. Ovulatory → Follicular → Luteal

Answer: C



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57. Fill in the blanks

Thea..... Lymphoid organs provide the sites for interaction of lymphocytes with antigen which then proliferate to becomeb.....

2 . The thymus is a lobed organ located near the heart

and beneath theC.....

3. Spleen has a large reservoir ofd.....

A. a - primary , b - antigen sensitive cells, c - collar bone , d - lymphocytes

B. a - secondary , b - receptor cells, c - breastbone, d - erythrocytes

C. a - primary , b - effector cells , c - breastbone

D. a - secondary , b - effector cells, c - breastbone , d - erythrocytes

Answer: D



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58. Which of these hormones may have a primary role in maintaining the circadian rhythm ?

A. Insulin

B. Estradiol

C. Melatonin

D. Epinephrine

Answer: C



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59. The extinct human who lived 100000 to 40000 years ago, in Europe, Asia and parts of Africa, with short

stature, heavy eye brows, retreating fore heads, large jaws with heavy teeth, stocky bodies, a lumbering gait and stooped posture was

- A. Neanderthal man
- B. Homo erectus
- C. Cro - magono man
- D. Homo habilis

Answer: A



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60. Read the following four statements (A-D)

A. The first transgenic buffalo, Roise produced milk which was human alpha-lactalbumin enriched

B. Restriction enzymes are used in isolation of DNA from other macromolecules

C. Downstream processing is one of the step of rDNA technology

D. Disarmed pathogen vectors are also used in transfer of rDNA into the host

which of the two statements have mistakes ?

A. Statements a and c

B. Statements a and b

C. Statements b and d

D. Statements c and d

Answer: C



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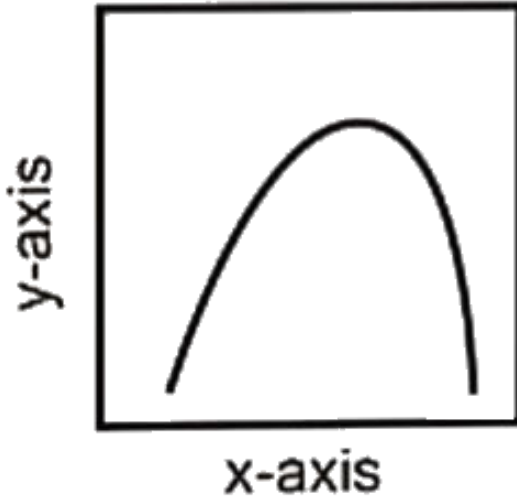
61. The curve given below shows enzymatic activity with relation to three conditions (pH, temperature and substrate concentration). What does the two axis (x

and

y)

represent

?



- A. X-axis Y-axis
Temperature Enzyme activity
- B. X-axis Y-axis
Enzyme activity *pH*
- C. X-axis Y-axis
Enzyme activity Temperature
- D. More than one option is correct

Answer: A



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62. In RNA interference (RNAi) :

A. The silencing of a specific mRNA due to a complementary RNA strand that binds and form dsRNA molecule and prevent translation of the mRNA

B. The silencing of a specific mRNA due to dsDNA molecule that binds to and prevent translation of the mRNA

- C. The silencing of a specific mRNA due to a non-complementary dsRNA molecule that binds to and prevent translation of the mRNA
- D. All of the above

Answer: A



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63. Match column - I with column - II and select the CORRECT option form the codes given below

Column - I

Column - II

- | | | |
|----------------------|-------|---------------------------|
| (1) Multiple alleles | (i) | Phenylketonuria in humans |
| (2) Polygenes | (ii) | Blood groups in humans |
| (3) Pleiotropy | (iii) | Skin colour in humans |

A. 1 - (ii), 2 - (i) , 3 - (iii)

B. 1 - (ii), 2 - (iii) , 3 - (i)

C. 1 - (iii), 2 - (ii) , 3 - (i)

D. 1 - (i), 2 - (iii) , 3 - (ii)

Answer: B



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64. In Amoeba , encystation is

A. withdrawal of pseudopodia and secretes a one -
layerd hard covering or cyst around itself.

B. withdrawal of pseudopodia and secretes a two -
layerd hard covering or cyst around itself.

C. withdrawal of pseudopodia and secretes a three -
layerd hard covering or cyst around itself.

D. withdrawal of pseudopodia and secretes a four -
layerd hard covering or cyst around itself.

Answer: C



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65. 2-celled pollen grains of angiosperm represents:

A. Microspores

B. Partially developed male gametophyte

C. Matura male gametophyte

D. Male gametangium

Answer: B



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66. If four o' clock plants, the gene for red flower colour (R) is incompletely dominant over the gene for white flower colour (r), hence the plants heterozygous for flower colour (Rr) have pink flower. What will be the ratio of offsprings in a cross between the red flowers and pink flowers ?

A. 75% red flowers , 25% pink flowers

B. All red flowers

C. 50% red flowers , 50% pink flowers

D. Red : pink : white - 1 : 2 : 1

Answer: C



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67. In eukaryotes , the process of DNA replication is :

A. Semi - conservative and semi- discontinuous

B. Continuous and bidirectional

C. Semi - conservative and continuous

D. Both (A) and (B)

Answer: A



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68. Resistance to jassids in cotton and cereal leaf beetles in wheat is due to which of the following morphological characteristics ?

A. Solid stem

B. Hairy leaves

C. Nectarless nature

D. Both A and B

Answer: B



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69. Alexander Fleming while working onbacteria , observed *Penicillium notatum* growing in one of his unwashed culture plates around which these bacteria could not grow.

- A. Streptococci
- B. Diplococci
- C. Staphylococci
- D. Streptobacilli

Answer: C



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70. In the absence of an external source of water, the kangaroo rat in North American deserts is capable of meeting all its water requirements through

- A. internal carbohydrate oxidation.
- B. internal fat oxidation.
- C. internal protein oxidation.
- D. Both (B) and (C)

Answer: B



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71. Which of the following is CORRECTLY matched ?

A. Frog - Primary consumer

B. Productivity - $\text{Kcal} / \text{m}^2 / \text{yr}$

C. Tertiary consumers - Slime moulds

D. Temperate ecosystem - Ocean

Answer: B



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72. Deserts, rain forests, mangroves, coral reefs, wetlands, estuaries and alpine meadows can be employed to describe the

- A. Genetic diversity
- B. Species diversity
- C. Ecological diversity
- D. All of the above

Answer: C



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73. The aromatic polyurethane elastomeric polymer and used along with bitumen is :

- A. Polyblend
- B. Polyethene
- C. Nylon
- D. None of these

Answer: A



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74. The coconut water from tender coconut represents

- A. Endocarp
- B. Cellular endosperm
- C. Free nuclear proembryo
- D. Free nuclear endosperm

Answer: D



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75. Which of the following characters was not chosen by Mendel ?

- A. Pod shape
- B. Pod colour

C. Location of flower

D. Location of pd

Answer: D



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76. Select the correct statement for transcription.

A. Transfer of genetic code of RNA to DNA

B. Transfer the information of genetic codes of
mRBA to form protein

C. Transfer of genetic code of DNA to RNA

D. Polymerisation of dextrin in cell - free system

Answer: C



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77. The effluent from thetreatment plant is generally released into natural water bodies like rivers and streams.

A. primary

B. secondary

C. primordial

D. tertiary

Answer: B



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78. When population reaches carrying capacity :

A. Mortality rate = Birth rate

B. Mortality rate $>$ Birth rate

C. Mortality rate $<$ Birth rate

D. None of the above

Answer: A





79. Read the following statements.

(i) Removal of tigers from an area will result in increased growth of vegetation of that area.

(ii) Organisms at each trophic level depend on those at the lower trophic level for their energy demands.

(iii) Food chains are sustained by producers and decomposers

(iv) In a food chain , some organism like sparrow operates at one trophic level only.

Select an option which shows CORRECT statements.

A. (i) and (ii)

B. (ii) ad (iv)

C. (ii) and (iii)

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

Answer: C



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80. In situ conservation is carried out through:

A. National parks

B. Wild life sanctuaries

C. Biosphere reserves

D. All the above

Answer: D



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81. A sound ofdB is generated by take - off of a jet plane.

A. 80

B. 50

C. 100

D. 150

Answer: D



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82. Female gametophyte of angiosperms is represented by

A. Ovule

B. Megaspore

C. Embryo sac

D. Nucellus

Answer: C



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83. The symptoms of a genetic disorder are short-statured with a small round head, furrowed tongue and partially open mouth. Such a genetic disorder is characterized by the presence of an extra chromosome number

A. 20

B. 21

C. 17

D. 23

Answer: B



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84. Some amino acids are coded by more than one, codon, hence the code is

- A. degenerate
- B. non- ambiguous
- C. non- overlapping
- D. None of the above

Answer: A



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85. Succession is :

- A. Gradual convergent direction and continuous process
- B. Series of biotic communities that appear gradually in baren area
- C. Orderly process of community change till stability
- D. All of the given options

Answer: D



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86. The hyperbolic equation for the species area relationship is

A. $\log C = \log S + Z \log A$

B. $\log S = \log C + Z \log A$

C. $\log S = \log A + Z \log C$

D. $S = CA^Z$

Answer: D



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87. Which of the following plants are water pollinated ?

A. Zostera

B. Vallisneria

C. Hydrilla

D. All of above

Answer: D



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88. Select the incorrect statement regarding pedigree analysis

- A. Solid symbols show unaffected individuals .
- B. Square represents male in the pedigree chart.
- C. It is useful for genetic counselling.
- D. It is an analysis of traits in several generations of a family.

Answer: A



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89. Perisperm is remnant of :

A. Integument

B. Nucellus

C. Embryo sac

D. Testa

Answer: B



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90. Haplodiploidy is found in

- A. grasshoppers and cockroaches
- B. birds and reptiles
- C. butterflies and moths
- D. honey bees, ants and wasps

Answer: D



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