



BIOLOGY

BOOKS - NTA MOCK TESTS

NEET MOCK TEST 17

Biology

1. Androecium and gynoecium are _____ of a flower.

- A. Essential whorls
- B. Accessory whorls
- C. Non-essential whorls
- D. All of these

Answer: A



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2. Given below are four methods and their mode of action in achieving contraception. Find the incorrect match.

A. Cervical caps-Prevent sperms reaching cervix

B. Periodic abstinence-Natural method that avoids chances of ovum and sperms meeting.

C. Cu375-Suppress sperm motility and fertilising capacity of sperms.

D. Saheli-Prevent ovulation

Answer: D



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3. Snakes and lizards shed their scales as skin cast it is

- A. Dermis
- B. Epidermis
- C. Carnified cells
- D. none of these

Answer: C



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4. Hyposecretion of steroid hormones from adrenal glands leads to

- A. Addison's disease
- B. Cushing's disease
- C. Dwarfism

D. None of the above

Answer: A

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5. Which one of the following pairs of food components in human reaches the stomach totally undigested

A. protein and starch

B. Starch and fat

C. Fat and cellulose

D. Starch and cellulose

Answer: C

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6. E. coli with completely N^{15} DNA was allowed to replicate in N^{14} medium for two generations. Percentage of bacteria with heavy DNA will be

- A. 6.25 %
- B. 50 %
- C. 25 %
- D. 100 %

Answer: B

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7. The three levels of biodiversity are

- A. Genetic diversity, species diversity and ecological diversity
- B. Species diversity, ecological diversity and habitat diversity

C. Geographical diversity, genetic diversity and habitat diversity

D. Ecological diversity , species diversity and community diversity

Answer: A



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8. The asexual spores are generally not found in

A. Basidiomycetes

B. Ascomycetes

C. Deuteromycetes

D. Zoomycetes

Answer: A



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9. In ECG the repolarization of ventricles is indicated by

- A. P wave
- B. QRS complex
- C. S wave
- D. T wave

Answer: D



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10. The cells of the embryo sac in the chalazal end are called as

- A. Antipoda cells
- B. Synergids

C. Egg and synergids

D. Antipodals and synergids

Answer: A



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11. Species with small world populations that are not endangered or vulnerable at present, but are at the risk are called

A. Critically endangered

B. Lower risk

C. Rare

D. Extinct

Answer: C



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12. Emulsification of fat is carried out by

- A. Pancreatic juice
- B. HCl
- C. Bile
- D. Mucus of intestine

Answer: C



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13. In plants meiosis occurs in

- A. Anther
- B. Root tip

C. Cambium

D. Pollen grain

Answer: A



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14. Guard cells help in

A. Transpiration

B. Guttation

C. Increasing temperature of leaf

D. Decreasing gaseous exchange

Answer: A



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15. Which of the following organisms possesses characteristics of both a plant and an animal?

- A. Mycoplasma
- B. Paramecium
- C. Bacteria
- D. Euglena

Answer: D



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16. Microscopic study of tissues is known as

- A. Histology
- B. Microbiology

C. Cytology

D. Pathology

Answer: A



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17. Darwin's Finches are an excellent example of

A. Adaptive radiation

B. Seasonal migration

C. Brood parasitism

D. Connecting links

Answer: A



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18. In Mongolism, each cell has how many chromosomes

A. 21st pair having one less

B. 23rd pair with one less

C. 45

D. 47

Answer: D



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19. Sticky pollen grains with large and attractive coloured flowers in characteristic of flower showing

A. Anemophily

B. Entomophily

C. Hydrophily

D. Malacophily

Answer: B



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20. Crossing over in diploid organism is responsible for

A. Segregation of alleles

B. Dominance of genes

C. Linkage between genes

D. Recombination of genes

Answer: D



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21. The posterior lobe of the pituitary is called

- A. Glandularhypophysis
- B. Neurohypophysis
- C. Adenohypophysis
- D. Vascularhypophysis

Answer: B



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22. Purified antibiotic penicillin of *Penicillium notatum* was obtained by

- A. Alexander Flaming
- B. Howard Florey

C. Ernest Chain

D. Carolus Linnaeus

Answer: A



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23. The Pneumococcus experiment of Griffith proves that

A. DNA is the transforming principle

B. Bacteria undergo binary fission

C. Bacteria do not reproduce sexually

D. RNA sometime controls the production of DNA and proteins

Answer: A



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24. The reason for the exit of nerve cells from the cell cycle once after forming is :

- A. Absence of nucleus
- B. Absence of mitochondria
- C. Absence of centrosome
- D. Absence of Golgi body

Answer: C

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25. Which of the following statement is / are correct with respect to remedy for plastic waste?

- a. Polyblend is a fine mixture of recycled modified plastic.
- b. It is a zero-waste procedure

- c. It was due to the collaboration of town people of Arcata and biologists of Humboldt State University
- d. A blend of polyblend and bitumen enhances bitumen's water-repellent properties and helps to increase road life

- A. a and b
- B. a and c
- C. a and d
- D. only a

Answer: C

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26. How many statements are correct ?

- a. Biomagnification is the natural ageing of a lake by nutrient enrichment of its water

- b. After CFC, methane is a major cause of greenhouse effect
- c. Ozone is a secondary pollutant in troposphere
- d. The thickness of the ozone is measured in Dobson unit

A. a,b

B. only d

C. c,d

D. a,b,d

Answer: C



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27. In mammals growing oocytes are surrounded by special nutritive cells called

A. Follicle cells

B. Nurse cells

C. Follicle cells and nurse cells

D. None of the above

Answer: A



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28. The habit of a cabbage or acaulescent plant can be changed drastically by the application of

A. IAA

B. GA_3

C. ABA

D. Zeatin

Answer: B



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29. The number of occipital condyles in man is/are

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

Answer: B



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30. Respiration is an

- A. Endothermic process

B. Exothermic process

C. Anabolic process

D. Endergonic process

Answer: B



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31. Match the column with respect to organelles and their respective function.

	Column I		Column II
a.	Golgi apparatus	(i)	Helps in spindle formation
b.	Ribosomes bound to ER	(ii)	Synthesis and storage of fats
c.	Microtubules	(iii)	Secretory proteins
d.	Spherosomes	(iv)	Helps in pseudopodia formation
		(v)	Acrosome of sperms

A. a-I,b-ii,c-iv,d-v

B. a-v,b-iii,c-I,d-ii

C. a-v,b-iii,c-iv,d-ii

D. a-iv,b-iii,c-v,d-ii

Answer: B



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32. The type of chlorophyll present of Phaeophyceae is

A. chlorophyll a and chlorophyll e

B. chlorophyll a and chlorophyll c

C. chlorophyll a and chlorophyll d

D. chlorophyll a and chlorophyll b

Answer: B

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33. According to Hardy-Weinberg's principle, if allele one is denoted as 'A' and allele two as 'a' and their frequencies are denoted by p and q , and if random mating occurs. The frequency of heterozygous individual would be :

A. $2pq$

B. q^2

C. pq

D. p^2

Answer: A

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

- A. Isoenzymes
- B. Holoenzymes
- C. Apoenzymes
- D. Coenzymes

Answer: A



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35. Extrusion of second polar body from egg nucleus occurs

- A. After the entry of sperm, before the completion of fertilization

B. After the completion of fertilization

C. Before the entry of sperm

D. Has no relation to sperm entry.

Answer: A



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36. Culturing of shoot apex as explant on nutrient medium in tissue culture gives to disease-free plants because :

A. Such an explant contains secondary metabolites

B. It contains toxins that prevent growth of other organism

C. Such explant is pathogen free

D. Sterilization kills all pathogens

Answer: C



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37. Which of the following structure will not be common to mitotic cell of a higher plant

- A. Cell plate
- B. Centriole
- C. Centromere
- D. Spindle fibres

Answer: B



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38. Multiple alleles control the inheritance of

- A. Phenylketonuria

B. Colour blindness

C. Sickle cell anaemia

D. Blood groups

Answer: D



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39. If the birth rate is 100, the death rate is 10 and the number of individuals in a population group is 1000, then what will be the intrinsic rate of natural increase of the population ?

A. 900

B. 90

C. 1090

D. 890

Answer: B



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40. To study any kind of genetic abnormality arising due to change in chromosome number, the karyotype is prepared. Which of the following stages is most suitable to develop a karyotype ?

- A. Metaphase
- B. Telophase
- C. Anaphase
- D. Prophase

Answer: A



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41. Genetically engineered bacteria have been used in the commercial production of

- A. Human insulin
- B. Testosterone
- C. Thyroxine
- D. Melatonin

Answer: A



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42. At the neuromuscular junction :

- A. The muscle membrane possesses muscularia receptors
- B. The motor nerve endings secrete norepinephrine
- C. Curare leads to prolongation of neuromuscular transmission

D. The motor nerve endings secrete acetylcholine

Answer: D



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43. Which one of the following is associated with excretion in amoeba ?

A. Endoplasm

B. Mitochondria

C. Contractile vacuole

D. Plasma membrane

Answer: C



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44. Peripatus is known as a connecting link, because it has the characters of both

- A. Aves and Fishes
- B. Reptiles and Birds
- C. Fishes and Amphibians
- D. Arthropods and Annelids

Answer: D

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45. Caffeine, amphetamine and cocaine are

- A. Nerve depressants
- B. Nerve initiators

C. Nerve stimulants

D. Nerve impulse initiators

Answer: C



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46. Name of Schleiden and Schwann are associated with

A. Protoplasm as the physical basis of life

B. Cell theory

C. Theory of cell lineage

D. Nucleus functions as control centre of cell

Answer: B



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47. If the gene of interest is inserted at the BamHI site in pBR322, the recombinant plasmid will

- A. Show ampicillin & tetracycline resistance only
- B. Show tetracycline resistance
- C. Will grow well on tetracycline containing medium
- D. Will not grow on tetracycline containing medium

Answer: D

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48. In lichens, sexual reproduction is usually performed by

- A. Fungal partner only
- B. Algal partner only

C. Fungal and algal partners (both)

D. Either fungal partner or algal partner (not both)

Answer: A

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49. What does the filiform apparatus do at the entrance of the ovule ?

A. It brings about opening of the pollen tube.

B. It helps in the entry of pollen tube into a synergid.

C. It prevents entry of more than one pollen tube into the embryo sac.

D. It guides pollen tube from a synergid to egg.

Answer: B



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50. Which of the following set of bacteria are found to be very useful in genetic engineering experiments ?

- A. Nitrosomonas and Klebsiella
- B. Rhizobium and Diplococcus
- C. Nitrobacter and Azotobacter
- D. Escherichia and Agrobacterium

Answer: D



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51. Which one of the following traits of garden pea is a recessive feature ?

- A. Round seed shape
- B. Axial flower position
- C. Green seed colour
- D. Green pod colour

Answer: C



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52. Which one of the following processes is not involved in beer production ?

- A. Melting
- B. Mashing
- C. Fermentation
- D. Distillation

Answer: D



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53. Hydrolysis of nucleic acid yields

- A. Only sugar
- B. Phosphoric acid only
- C. Nitrogenous base only
- D. Nitrogenous base, sugar and phosphate

Answer: D



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54. Read the following statements :

- i. presence of DNA.
- ii. Presence of cristae.
- iii. Presence of the 70S ribosome.
- iv. Enzyme for carbohydrate synthesis.
- v. Site for oxidative phosphorylation.

How many of the above statements are in common for mitochondria and chloroplast ?

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

Answer: A

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55. Which of the following statements is correct with respect to Blackman's law of limiting factor ?

- A. Only one factor can be limited in photosynthesis
- B. Photosynthesis consists of a light and dark reaction
- C. The trapping of light by chloroplast is temperature dependent
- D. The trapping of light by chloroplast can occur only if CO_2 is present

Answer: B

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56. ADH is synthesised by _____, released by _____ and acts on _____.

- A. Hypothalamus, neurohypophysis, PCT
- B. Hypothalamus, neurohypophysis, DCT and collecting duct
- C. Hypothalamus, adenohypophysis, PCT
- D. Hypothalamus, adenohypophysis, loop of Henly

Answer: B



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57. Stirred-tank bioreactors have been designed for

- A. Addition of preservatives to the product
- B. Purification of the product
- C. ensuring anaerobic condition in the culture vessel
- D. Availability of oxygen throughout the process

Answer: D



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58. The enzyme nitrogenase is

- A. A Cu-Fe protein
- B. Found in prokaryotes only
- C. An O_2 requiring enzyme
- D. Essential to convert NH_3 to N_2

Answer: B



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59. Which of the following statements is correct for the 'nodes of Ranvier' in nerves ?

- A. Neurilemma is discontinuous
- B. Myelin sheath is discontinuous
- C. Both neurilemma and myelin sheath are discontinuous
- D. Covered by myelin sheath

Answer: B



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60. The plant group that produces spores and embryo but lacks vascular tissues and seeds is

- A. Pteridophyta

B. Rhodophyta

C. Bryophyta

D. Phaeophyta

Answer: C



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61. There are two plants A and B with respective critical photoperiod of 13 hours and 11 hours. When they are exposed to light for a period of 12 hour, it initiated flowering in both. Which of the following conclusions is most appropriate for these plants ?

A. Both plant A and B are long day plants

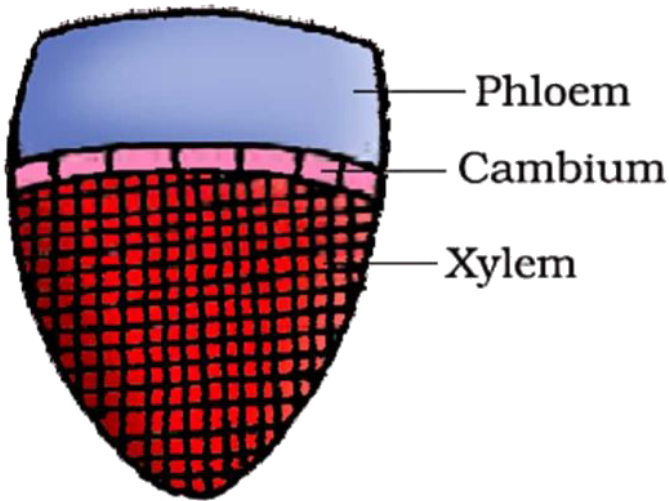
B. Both plant A and B are short day plants

C. Plant A is short day plant and plant B is long day plant

D. Plant A is long day plant and plant B is short day plant

Answer: C

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62.

In which of the following, this kind of vascular bundle can be seen ?

A. Dicot stem

B. Monocot stem

C. Dicot leaf

D. Monocot leaf

Answer: A



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63. Liberation of oxygen when green cells in water are exposed to sunlight in presence of suitable acceptor is

A. Arnon's reaction

B. Emerson's enhance effect

C. Blackman's reaction

D. Hill's reaction

Answer: D



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64. HIV causes reduction in

or

HIV virus affects..... In AIDS patient

A. T-helper cells only

B. All T-cells

C. B-cells only

D. Both B and T -cells

Answer: A



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65. Verxillary aestivation is seen in

A. China rose

B. Bean

C. Gulmohur

D. Cotton

Answer: B



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66. Cyanophycean granules and glycogen granules are examples of

A. Mircorbodies

B. Inclusion bodies

C. SER

D. Lysosomes

Answer: B



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67. Which of the following is incorrect about Klinefelter's syndrome ?

- A. A chromosomal disorder
- B. Karyotype of $44 + XXY$
- C. Gynaecomastia
- D. Fertile males

Answer: D



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68. During transcription, DNA site at which RNA polymerase binds is called

A. Terminator

B. Promoter

C. Regulator

D. Operator

Answer: B



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69. Residual volume is

A. Lesser than tidal volume

B. Greater than inspiratory volume

C. Greater than vital capacity

D. Greater than tidal volume

Answer: D



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70. Practical significance of taxonomy is

- A. To classify the organism
- B. To understand diversity
- C. To understand evolution
- D. Identification of organisms

Answer: D



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71. Coenocytic mycelium is formed in

A. Ustilago

B. Saccharomyces

C. Rhizopus

D. Alternaria

Answer: C



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72. Adaptations to plants against dry environmental conditions is
/ are

A. Stomata arranged in deep pits

B. Stomata remain open during day time

C. CAM pathway

D. More than one option is correct

Answer: D

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73. The meristem which occurs in grasses and regenerates parts removed by the grazing herbivores is

- A. Apical meristem
- B. Intercalry meristem
- C. Secondary meristem
- D. Cambium

Answer: B

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74. Which of following are the steps of genetic engineering ?

- A. Isolation of DNA
- B. Fragmentation of DNA by restriction endonuclease.
- C. Isolation of the desired DNA fragments.
- D. All of these

Answer: D



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75. In man the axial skeleton is made up of

- A. 80 bones
- B. 100 bones
- C. 103 bones

D. 106 bones

Answer: A

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76. Which of the following statement is correct regarding liverworts ?

- A. The thallus is dorsiventral and closely appressed to the substrate
- B. They are monoecious as well as dioecious
- C. Asexual reproduction by fragments or gemma cups.
- D. More than one option is correct

Answer: D

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77. What is true about ecosystem ?

- A. Primary consumers are least dependent upon producers
- B. Primary consumers out-number producers
- C. Producers are more than primary consumers
- D. Secondary consumers are the largest and most powerful

Answer: C



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78. Phyllode is present in :-

- A. Asparagus
- B. Euphorbia

C. Australian Acacia

D. Opuntia

Answer: C



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79. The rupture of the Graafian follicle and the release of ovum occurs under the influence of

A. LH

B. FSH

C. MSH

D. GH

Answer: A



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80. A lake with an inflow of domestic sewage rich in organic waste may result in

- A. drying of the lake very soon due to algal bloom
- B. an increased production of fish due to lot of nutrients
- C. death of fish due to lack of oxygen
- D. increased complexity of the aquatic food web

Answer: C



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81. How many bacteria are produced in four hours if a bacterium divides once in half an hour ?

- A. 8

B. 64

C. 16

D. 256

Answer: D



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82. Underground parts of some plants spread to new niches and when older parts die new plants are formed. This condition is seen in

A. Banana and pineapple

B. Jasmine and mint

C. Grass and strawberry

D. Chrysanthemum and Pistia

Answer: C



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83. Contraction of diaphragm during inhalation

- A. It decreases the volume of the thoracic chamber in the anteroposterior axis
- B. It increases the volume of the thoracic chamber in the dorso-ventral axis
- C. It increases the volume of the thoracic chamber in the anteroposterior axis.
- D. It decreases the volume of the thoracic chamber in the dorso-ventral axis.

Answer: C



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84. Which of the following is a pair of bacterial diseases ?

- A. Typhoid and Pneumonia
- B. Malaria and AIDS
- C. Ringworm and AIDS
- D. Common cold and Malaria

Answer: A



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85. Which of the statements supports that a flower is a highly condensed and modified part of the plant body?

- A. Anatomically, the pedicel and thalamus of a flower resembles that of a flower.
- B. Except for the lower internode, other internodes are condensed forming a broad base called thalamus.
- C. The flower may develop in the axis of a small leaf-like structure called bract.
- D. All of the above

Answer: C

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86. In a medico legal case of accidental interchange between two babies in a hospital, the baby of the blood group 'A' could not be rightly given to a couple with:

- A. Husband of O group and wife of AB group
- B. Husband of A group and wife of O group
- C. Husband of B group and wife of O group
- D. Husband of AB group and wife of A group

Answer: C



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87. How many microspore mother cells will give rise to 256 microspores after reduction division ?

- A. 512
- B. 128
- C. 64
- D. 96

Answer: C



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88. Which of the following statement is incorrect w.r.t. class cyclostomata?

- A. All the members are ectoparasites on some fishes
- B. Their body is devoid of scales and paired fins
- C. Circulation is of opentype
- D. They are marine but migrate for spawning to fresh water

Answer: C



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89. A type of granulocyte and agranulocyte

(i) are phagocytic cells that destroy foreign organisms entering the body.

(ii) secrete histamine, serotonin, heparin, etc., and are involved in inflammatory reactions.

(iii) resist infections and are also associated with allergic reactions.

(iv) are responsible for the immune responses of the body.

A.

<i>i</i>	<i>ii</i>	<i>iii</i>	<i>iv</i>
Monocytes	Neutrophils	Basophils	Eosinophils

B.

(*i, ii, iii, iv*), (Neutrophils, Basophils, Eosinophils *Monocytes*)

C.

<i>i</i>	<i>ii</i>	<i>iii</i>	<i>iv</i>
Neutrophils	Monocytes	Eosinophils	Basophils

D.

<i>i</i>	<i>ii</i>	<i>iii</i>	<i>iv</i>
Monocytes	Neutrophils	Eosinophils	Basophils

Answer: B



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90. Which of the following statement about human population is correct ?

- A. The world population was around 7.2 billion by 2000
- B. India's population reached close to 1.2 billion by 2000
- C. India' populatioin was approximately 350 million at the time of independence
- D. According to the 2011 census report, the population growth rate was more than 2 percent.

Answer: C



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