



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET SET 26

Biology

1. What is Gross primary productivity (GPP)?

A. It refers to the environmental factors.

B. Number of plants in an ecosystem.

C. It is the rate of production of organic matter during photosynthesis.

D. Solar energy exposed to plants in an ecosystem.

Answer: C



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2. The microspore mother cells are

A. Sporophyte

B. Gametophyte

C. Microsporocyte

D. Megasporeocyte

Answer: C



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3. How many of the given statements are incorrect ?

I. The cavity of the cervix is called cervical canal

which along with vagina forms the birth canal.

II. Spermatogenesis starts at the age of puberty.

III. At puberty, only 60, 000 – 80, 000 primary follicles are left in female body.

IV. In the early phase of pregnancy, a hormone called relaxin is also secreted by the ovary.

A. None

B. One

C. Two

D. Three

Answer: C



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4. The brain capacities of Homo habilis and Neanderthal man were respectively,

- A. 400 - 650 cc, 1100 cc
- B. 650-800 cc, 1400 cc
- C. 800 - 1050 cc, 1450 cc
- D. 1050 - 1400 cc, 1600 cc

Answer: B



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5. How many of the given statements are incorrect ?

I. The Universe is almost 20 billion years old.

II. Analogy indicates common ancestry.

III. When adaptive radiation has occurred in an isolated geographical area, one can call this convergent evolution.

IV. Natural selection is based on certain

observations which are factual.

V. Hardy-Weinberg principle says that allele frequencies in area are unstable.

A. Two

B. Three

C. One

D. Four

Answer: B



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6. Select the incorrect match.

A.

Typical poultry birds Chicken, Ducks, Turkey and Geese

B.

Result of outbreeding Hisardale, Mule

C.

Marine water Fishes Hilsa, Sardines, Mackerel and Pomfrets

D. Flying birds Columba, Psittacula, Apterodytes

Answer: D



7. Select the incorrect match.

A. Conducting part- It extends from the external nostrils upto the terminal bronchioles.

B. Functional residual capacity - Volume of air that remains in the lungs after a normal expiration.

C. Carbonic anhydrase enzyme - It is found in a very high concentration in the plasma.

D. Pneumotaxic center.

Answer: C



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8. In the equation for S-shaped population

growth $\frac{dN}{dt} = rN \left[\frac{K - N}{K} \right]$, r represents

- A. Carrying capacity
- B. Environmental resistance
- C. Biotic potential
- D. Population size

Answer: C



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9. Arrange the number of species of phylum Arthropoda ((A)) , phylum Chordata ((B),) and phylum Mollusca ((C)) in ascending order.

A. $B < C < A$

B. $B < A < C$

C. $C = B \text{ It } A$

D. $C \text{ It } B \text{ It } A$

Answer: A



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10. Which of the following statements are correct ?

(i) Catalytic converters convert unburnt

hydrocarbons into CO_2 and H_2O .

(ii) The catalytic converter converts carbon monoxide and nitric oxide into CO_2 and N_2 .

(iii) Automobiles are the major cause of atmospheric pollution in the world.

(iv) Proper maintenance of automobiles along with the use of lead-free petrol or diesel cannot reduce the pollutants they emit.

(v) In India, the Air (Prevention and Control of Pollution) Act came into force in 1981 amended in 1987 to include noise as air pollutants.

A. (i), (ii), (iv) and (v)

B. (i), (ii), (iii) and (v)

C. (iii), (iv) and (v)

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

Answer: B



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11. A eukaryote, without a cellulosic cell wall, presence of multicellular/loose tissue body organization showing heterotrophic (saprophytic/parasitic) nutrition is

A. Chlorophyta

B. Rhodophyta

C. Mycota

D. Thallophyta

Answer: C



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12. Late blight of potato is caused by

A. *Albugo candida*

B. *Phytophthora infestans*

C. *Alternaria solani*

D. *Ustilago tritici*

Answer: B



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13. In *Ulothrix*, meiosis takes place in

A. Cell of the filament

B. Holdfast

C. Zygote

D. Zoospore

Answer: C



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14. Select the incorrect statement.

A. Phylum Hemichordata consists of a small group of worm-like marine animals with organ-system level of organisation.

B. Fertilization is usually internal in Echinodermata.

C. Radula in mollusca helps in feeding.

D. Parapodia is found in aquatic annelids.

Answer: B



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15. Provascular tissue gives rise to

A. Secondary phloem only

B. Primary xylem only

C. Primary xylem and primary phloem

D. Primary xylem and secondary phloem

Answer: C



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16. Select the correct match with respect to *Periplaneta americana*.

A. Head Possess anal cerci

B.

Malpighian tubules 50-60 in number

C. Anal Found in male cockroach
styles only

D. Spiracles Helpful in reproduction

Answer: C



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17. The contractile vacuole is an important site for excretion and it is absent in

A. Euglena

B. Entamoeba

C. Plasmodium

D. Paramecium

Answer: C



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18. Organic compound firmly bound to an apoenzyme to make it catalytically active is

A. Coenzyme

B. Metal ion

C. Prosthetic group

D. Holoenzyme

Answer: C



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19. Which of these best describes how the substrate fits with the enzyme ?

- A. The active site changes shape slightly to fit the substrate
- B. It is exactly into the non-active site
- C. Both (a) and (b)
- D. None of these

Answer: D



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20. Separation of the homologous chromosome of a pair occurs during

- A. Congression
- B. Disjunction
- C. Bivalent formation
- D. Synapsis

Answer: B



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21. Absorption of water by plants is enhanced by

- A. Increasing photosynthesis
- B. Increasing transpiration
- C. Decreasing transpiration
- D. Decreasing

Answer: B



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22. The enzyme nitrogenase is highly sensitive to the molecular oxygen as it requires anaerobic condition. In nodule anaerobic condition is provided by

- A. Nod factor
- B. bacteroids
- C. Leghaemoglobin
- D. Auxin

Answer: C



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23. A wasteful, light-induced respiratory process releasing CO_2 is called as

A. Richmond Lang effect

B. Photorespiration

C. PCR

D. Pasteur's effect

Answer: B



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24. The site of perception of light/dark duration are the

A. Leaves

B. Shoot apical meristem

C. Bud

D. Roots

Answer: A



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25. Ileocecal valve prevents the backflow of fecal matter from

A. Ileum to caecum

B. Caecum to ileum

C. Ileum to jejunum

D. Caecum to vermiform appendix

Answer: B



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26. Following pair of the organism are used for antibiotic production:

A. Trichoderma and Monascus

B. Aspergillus niger and Penicillium notatum

C. Lactobacillus and Nucleopolyhedrovirus

D. Baculovirus and Streptococcus

Answer: B



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27. Identity the set of hormone releasing IUD?

- A. Lippes loop, LNG-20
- B. Cu 7, Multiload 375
- C. Progestasert, LNG-20
- D. Saheli, Multiload 375

Answer: C



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28. Select the incorrect match.

A. Pectoral girdle - 4 bones

B. False ribs in humans that are not true-
8th to 10th

C. Palm bones in limbs - 5

D. Ankle bones in a limb - 7

Answer: A



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29. The estimation of more than 70 % of the world livestock population is in

- A. India and China
- B. China and England
- C. Russia and India
- D. Europe and China

Answer: A



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30. Gonadotrophins include FSH and LH. Which of the following functions is not of LH ?

A. It induces ovulation of fully mature follicles.

B. It maintains the corpus luteum

C. It stimulates the interstitial cells of Leydig

D. It stimulates growth of the ovarian follicles.

Answer: D



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31. Central Drug Research Institute, which has developed the world's first non-steroidal oral contraceptive pill, is located at:

A. Pune

B. Lucknow

C. New Delhi

D. Mumbai

Answer: B



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32. Which of the following is not an adaptation associated with flight in birds?

A. Pneumatic bones

B. Absence of Right ovary

C. Beaks

D. Air sacs in lungs

Answer: C



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33. Which of the following statements about cyanobacteria is incorrect ?

A. Cyanobacteria like Nostoc and Anabaena are chemosynthetic autotrophs.

B. Cyanobacterial colonies are generally surrounded by a gelatinous sheath.

C. They are unicellular, filamentous and terrestrial/marine organisms.

D. Some of these organisms can fix nitrogen in specialized cells called heterocysts.

Answer: A



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34. White rust disease of mustard leaves is caused by a parasitic fungi called:

A. Puccinia

B. Albugo

C. Mucor

D. Rhizopus

Answer: B



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35. Identify a triploblastic animal lacking true coelom.

A. Ascaris

B. Cockroach

C. Pheretima

D. Rana

Answer: A



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36. Which set of animals belongs to the same phylum?

A. Meandrina, Beroe

B. Planaria, Ascaris

C. Cattle fish, Tusk shell

D. Silver fish, Dog fish

Answer: C



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37. The plant body of Funaria is

A. Sporophyte

B. Gametophyte

C. Predominantly sporophyte with independent gametophyte

D. Predominantly gametophyte with dependent sporophyte.

Answer: D



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38. The family containing mustard and its main characters are

A. Brassicaceae - Tetramerous flowers, six stamens, bicarpellary gynoecium, siliqua type fruit

B. Brassicaceae - Pentamerous flowers, many stamens, pentacarpellary gynoecium, capsule type fruit

C. Solanaceae - Pentamerous flowers, five
stamens, bicarpellary gynoecium, berry
type fruit

D. Liliaceae - Actinomorphic flowers, six
stamens, tricarpellary gynoecium,
capsule type of fruit

Answer: A



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39. The endodermis is a part of:

A. Cortex

B. Pericycle

C. Medulla

D. Epidermis

Answer: A



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40. Choose the incorrect match.

A. Nucleus - RNA synthesis

B. Lysosome - Protein synthesis

C. Mitochondria - Respiration

D. Cytoskeleton - Microtubules

Answer: B



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41. There are three basic steps in creating genetically modified organisms. Arrange these steps in the correct sequence.

(a.) Introduction of the identified DNA into the host

(b.) Maintenance of introduced DNA in the host and transfer of the DNA to its progeny

(c.) Identification of DNA with desirable genes

A. $a \rightarrow b \rightarrow c$

B. $b \rightarrow c \rightarrow a$

C. $c \rightarrow b \rightarrow a$

D. c \rightarrow a \rightarrow b

Answer: D



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42. Which of the following are categorized under Chordata ?

A. Urochordata and cephalochordate

B. Hemichordata and urochordata

C. Craniata and Hemichordata

D. Vertebrata and Echinodermata

Answer: A



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43. Among the following, the correct options for pre-fertilization events are:

- (a.) Gametogenesis
- (b.) Gametes transfer
- (c.) Growth of pollen tube

(d.) Syngamy

(e.) Embryogenesis

A. *c, d&e*

B. *a, b&c*

C. *b, c&d*

D. *a, b&d*

Answer: B



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44. The gritty nature of diatomaceous earth is due to:

- A. Silica in the cell wall
- B. Ability to photosynthesize
- C. Calcium in the cell wall
- D. Excess salt in the cell from the sea

Answer: A



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45. Sea lily belongs to the phylum:

A. Chordata

B. Arthropoda

C. Annelida

D. Echinodermata

Answer: D



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46. What is incorrect about the resting state of neuron ?

A. High concentration of K^+ and negatively charged proteins and low concentration of Na^+ in axoplasm.

B. Axonal membrane is nearly impermeable to Na^+ .

C. Axonal membrane is more permeable to K^+ .

D. Outer surface of axon is negatively charged.

Answer: D



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47. Which of the following plant cycles is exhibited by Ectocarpus and kelps ?

A. Diplontic

B. Haplontic

C. Haplo-diplontic cycle

D. None of the above

Answer: C



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48. The incorrect statement among the following is:

A. Phyllotaxy is whorled in *Alstonia*.

B. Ovaries are half superior in rose, peach and plum.

C. Ovules are borne on central axis in axile placentation.

D. Placenta is the site of attachment of gynoecium in flower.

Answer: D



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49. Simple squamous epithelia are mainly concerned with:

A. Diffusion

B. Secretion

C. Absorption

D. Both (b) and (c)

Answer: A



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50. Micropropagation is:

A. The method of producing thousands of plants through tissue culture.

B. The formation of alternate resources of proteins for animal and human nutrition.

C. The classical breeding crops with higher levels of vitamins and minerals, or higher proteins and healthier fats.

D. Large scale culturing of mushrooms.

Answer: A



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51. Select the incorrect statement about the epithelial tissue.

A. Epithelia possess a free surface.

B. In epithelia, cells are loosely packed with some intercellular matrix.

C. Epithelia is the covering or lining of some body parts.

D. Origin of epithelial tissues may be ectodermal or mesodermal or endodermal.

Answer: B



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52. Which of the following is not a part of the axial skeleton?

A. Sternum

B. Coxal bone

C. Coccyx

D. Atlas

Answer: B



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53. The mode of action of an enzyme is:

- A. Decreasing potential energy
- B. Increasing activation energy
- C. Increasing kinetic energy
- D. Decreasing activation energy

Answer: D



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54. The part of the sarcomere in which only myosin is present is termed as:

A. A-Band

B. I-Line

C. M-Line

D. H-Band

Answer: D



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55. Choose a saturated fatty acid from the following compounds.

A. Palmitic acid

B. Linoleic acid

C. Oleic acid

D. Arachidonic acid

Answer: A



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56. In which stage of prophase-I recombination nodules appear in meiosis?

A. Leptotene

B. Zygotene

C. Diplotene

D. Pachytene

Answer: D



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57. How many of the following statements are incorrect ?

(i) The shape of the cell may vary with the function they perform.

(ii) Nerve cells are some of the longest cells.

(iii) The largest isolated single cell is the egg of an ostrich.

(iv) Blue-green algae are eukaryotes.

(v) Prokaryotic cells are generally smaller and multiply slowly than eukaryotic cells.

A. Two

B. Four

C. Three

D. Five

Answer: A



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58. In the retina, the membrane potentials are first generated in:

A. Photoreceptors

B. Ganglion cells

C. Bipolar neurons

D. Muller cells

Answer: A



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59. Which of the following functions are not performed by the association areas in the brain?

A. Intersensory associations

B. Memory

C. Communication

D. Balancing

Answer: D



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60. Read the following statements:

A. Dura mater is the outer layer of the cranial meninges.

B. Electrical synapses are rare in the human

body .

C. The tectorial membrane is found in the middle ear.

How many statements are incorrect?

A. None

B. One

C. Two

D. Three

Answer: B



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61. Okazaki fragments are formed on one of the strand of DNA, known as

A. Leading strand

B. Lagging strand

C. Continuous strand

D. More than one option is correct

Answer: B



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62. Transition zone between two biomes is called

A. Ecocline

B. Ecotone

C. Buffer zone

D. Thermocline

Answer: B



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63. If the stroke volume of an athlete is 100 ml and the heart beat rate is 82/min, what will be the cardiac output ?

A. 8.5 L

B. 8 L

C. 8.3 L

D. 8.2 L

Answer: D



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64. Ecosan is

A. Use of organisms to neutralize, absorb, and assimilate the pollutants present in sewage.

B. A sustainable system for handling excreta.

C. Recycling mechanism for the removal of waste.

D. The strategy to remove heavy metals from sewage.

Answer: B



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65. Which of the following statement is correct about glycolysis ?

A. In this process, glucose undergoes complete oxidation to form two molecules of pyruvic acid.

B. In aerobic organisms, it is the only process in respiration.

C. The fructose 1, 6-bisphosphate is split into dihydroxyacetone phosphate and 3-phosphoglyceraldehyde (PGAL).

D. In plants, this glucose is derived from sucrose, which is the end product of photosynthesis, or from structural carbohydrates like starch.

Answer: C



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66. Select the inappropriate pair.

A. Chemosensitive area for respiration -

Pons

B. GFR - 125 mL/min

C. Eustachian tube - Middle ear

D. Corpora quadrigemina - Midbrain

Answer: A



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67. Which of the following is not the part of external genitalia of female?

- A. Mons pubis
- B. Vagina
- C. Labia minora
- D. Clitoris

Answer: B



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68. cry-gene is associated with

A. *Salmonella typhimurium*

B. *Escherichia coli*

C. *Bacillus thuringiensis*

D. *Bacillus subtilis*

Answer: C



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69. DNA is a very long polymer, and there are technical limitations in sequencing very long pieces of DNA. The long fragments of DNA are sequenced using

A. Phage vector

B. BAC

C. YAC

D. Both (B) & (C)

Answer: D



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70. Leydig cells are located

A. Between the testicular lobules

B. In the seminiferous tubules.

C. Outside the seminiferous tubules but in
the testicular lobules

D. Outside the seminiferous tubule but
between the testicular lobules

Answer: C





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71. Morels and Agaricus have edible fruiting bodies and belong to their respective class as

A. Ascomycetes and Basidiomycetes

B. Basidiomycetes and Ascomycetes

C. Ascomycetes only

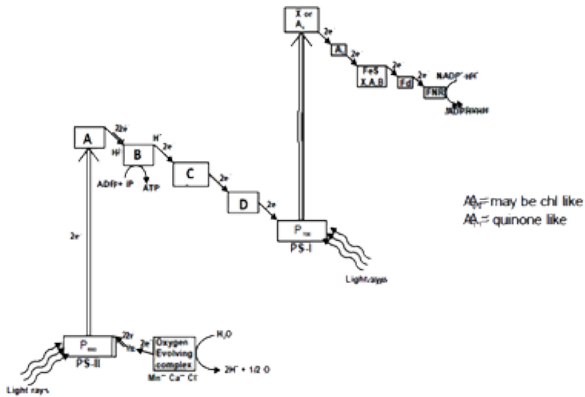
D. Basidiomycetes only

Answer: A



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72. In the given schematic diagram, which is plastocyanin ?



A. C

B. D

C. A

D. B

Answer: B



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73. The scientific process by which crop plants are enriched with certain desirable nutrients is called

A. Crop protection

B. Biofortification

C. Breeding

D. Bioremediation

Answer: B



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74. Which of the following statement is incorrect about oogenesis?

A. The Graafian follicle ruptures to release the secondary oocyte from the ovary by

the process called ovulation.

B. Oogenesis is initiated during the embryonic development stage when a couple of million gamete mother cells (oogonia) are formed within each fetal ovary.

C. The primary oocyte undergoes a second unequal meiotic division resulting in the formation of a large haploid secondary oocyte and a tiny secondary polar body.

D. The secondary follicle transforms into a tertiary follicle which is characterized by a fluid-filled cavity called the antrum.

Answer: C



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75. Match list I with list II and select the correct option

List-I	List-II
(A) Gemmules	(1) <i>Agave</i>
(B) Leaf Bud	(2) <i>Penicillium</i>
(C) Bulbil	(3) Water hyacinth
(D) Offset	(4) Sponges
(E) Conidia	(5) <i>Bryophyllum</i>

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

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

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

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

Answer: A



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76. Infertility cases due to very low sperm counts in the ejaculates could be corrected by

A. Artificial insemination

B. IVF-ET

C. ZIFT

D. GIFT

Answer: A



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77. Which of the following is not part of renal tubules?

A. Glomerulus

B. PCT

C. DCT

D. Loop of Henle

Answer: A



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78. Match the following:

List-I		List-II
(i)	Statins	A <i>Propionibacterium sharmanii</i>
(ii)	Swiss cheese	B <i>Streptococcus</i>
(iii)	Cyclosporin A	C <i>Aspergillus niger</i>
(iv)	Citric acid	D <i>Trichoderma polysporum</i>
(v)	Clot buster	E <i>Monascus purpureus</i>

A. (i)-E, (ii)-A, (iii)-D, (iv)-C, (v)-B

B. (i)-B, (ii)-A, (iii)-D, (iv)-E, (v)-C

C. (i)-E, (ii)-A, (iii)-B, (iv)-C, (v)-D

D. (i)-C, (ii)-E, (iii)-A, (iv)-D, (v)-B

Answer: A



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79. Select the correct statement.

A. Sweet potato and potato are modified for storage.

B. Eyes of octopus and mammals are examples of homologous organs.

C. Resistance in microbes against certain antibiotics is an example of adaptive radiation.

D. The inheritance of acquired characters and natural selection are the two key concepts of Darwinian theory of evolution

Answer: A



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80. Nitrosomonas and Nitrococcus are associated with which of the following reaction?

- A. Ammonia is oxidized to nitrite
- B. Nitrite is reduced to nitrate
- C. Nitrate is reduced to ammonia
- D. Nitrate is reduced to nitrogen

Answer: A



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81. Genes containing introns are called

- A. Silent genes
- B. Split genes
- C. Structural genes
- D. Pseudogenes

Answer: B



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82. Which of the following is incorrect regarding T-cells ?

A. These play important role in cell mediated immunity.

B. These play an important role in activation of B-lymphocytes.

C. These are a type of lymphocytes.

D. These are not responsible for graft rejection.

Answer: D



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83. Amino acid Leucine is coded by 6 triplet codons: UUA, UUG, CUU, CUC, CUA and CUG.

Which of the following is most relevant for the statement given?

A. Codes are non-overlapping

B. Degeneracy of code

C. Codes are commaless

D. Three adjacent nitrogen bases specifies
one amino acid

Answer: B



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84. Select the mismatch.

A. Benign tumours Possess contact
inhibition

B. Secondary lymphoid organ - Tonsil.

C. Autoimmune disease - Myasthenia
gravis.

D. Vaccination - Active immunity

Answer: A



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85. How much linkage strength is present between two genes A & B, which are 6 cM far from each other in a chromosome ?

A. 6 %

B. ≤ 50 %

C. 94 %

D. Data insufficient

Answer: C



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86. Which of the following is the infective stage of Plasmodium in the secondary host?

A. Trophozoite

B. Sporozoite

C. Microgametocyte

D. Merozoite

Answer: B



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87. Nucleopolyhedroviruses

- A. Cannot be used in ecologically sensitive areas
- B. Have negative impacts on non-target organisms
- C. Is the main genus of baculoviruses, that are used as biocontrol agents.
- D. All of these

Answer: C



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88. Lac-operon

A. is an inducible operon

B. is a repressible operon

C. Active in presence of glucose

D. All of these

Answer: A



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89. Select the incorrect match.

A. Eustachian tube It connects the middle ear with pharynx.

B. Fovea Corpus atresia is located in the central part of the fovea.

C. Vestibular apparatus It consists of semicircular canals and otoliths.

D. Olfactory epithelium Neuron from olfactory epithelium enter the olfactory bulb in brain.

Answer: B



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90. A bacterium divides every 35 minutes. If a culture containing 10^5 cells/ml is grown for 2 hours 55 minutes, what will be the cell concentration per ml?

A. 32×10^5 cells

B. 35×10^5 cells

C. 64×10^5 cells

D. 5×10^5 cells

Answer: A



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