



BIOLOGY

BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)

NEET 2018

Exercise

1. Oxygen is not produced during photosynthesis by

- A. Cycas
- B. Nostoc
- C. Green sulphur bacteria
- D. Chara

Answer: C



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2. Double fertilisation is

- A. fusion of two male gametes with one egg
- B. fusion of one male gamete with two polar nuclei
- C. fusion of two male gametes of pollen tube with two different eggs
- D. syngamy and triple fusion

Answer: D



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3. Which one of the following plants shows a very close relationship with a species of moth, where none of the two can complete its life cycle without the other

- A. Banana

B. Yucca

C. Hydrilla

D. Viola

Answer: B



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4. Pollen grains can be stored for several years in liquid nitrogen having a temperature of

A. $-196^{\circ}C$

B. $-80^{\circ}C$

C. $-120^{\circ}C$

D. $-160^{\circ}C$

Answer: A



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5. Which of the following elements is responsible for maintaining turgor in cells

- A. Potassium
- B. Sodium
- C. Magnesium
- D. Calcium

Answer: A



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6. What is the role of NAD^+ in cellular respiration ?

- A. It is a nucleotide source of ATP synthesis
- B. It functions as an electron carrier
- C. It functions as an enzyme

D. It is the final electron acceptor for anaerobic respiration

Answer: B



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7. In which of the following forms is iron absorbed by plants

A. Free element

B. Ferrous

C. Ferric

D. Both ferric acid and ferrous

Answer: C



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8. Which of the following is commonly used as a vector for introducing a DNA fragment in human lymphocytes ?

- A. λ phage
- B. Ti-plasmid
- C. Retrovirus
- D. pBR 322

Answer: C



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9. Use of bioresources by multinational companies and organisations with out authorisation from the concerned country and its people is called

- A. biodegradation
- B. biopiracy

C. bio-infringement

D. bioexploitation

Answer: B



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10. In India , the organisation responsible for assessing the safety of introducing genetically modified organisation for public use is

A. Research Committee on Genetic Manipulation (RCGM)

B. Council for Scientific and Industrial Research (CSIR)

C. Indian Council of Medical Research (ICMR)

D. Genetic Engineering Appraisal Committee (GEAC)

Answer: D



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11. The correct order of steps in Polymerase Chain Reaction (PCR) is

- A. Denaturation , Extension , Annealing
- B. Annealing , Extension , Denaturation
- C. Extension , Denaturation , Annealing
- D. Denaturation , Annealing , Extension

Answer: D



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12. Select the correct match

- A. TH Morgan - Transduction
- B. $F_2 \times$ Recessive parent - Dihybrid cross
- C. Ribozymes - Nucleic acid
- D. G. Mendel - Transformation

Answer: C



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13. A 'new variety of rice was patented by a foreign company though such varieties have been present in India for a long time. This is related to

A. Lerma Rojo

B. Sharbati Sonora

C. Co-667

D. Basmati

Answer: D



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14. Which one of the following pairs is wrongly matched ?

A. XO type sex-determination - Grasshopper

B. ABO blood grouping - Codominance

C. Strach synthesis in pea - Multiple alleles

D. TH Morgan - Linkage

Answer: C



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15. Select the correct statement

A. Spliceosomes take part in translation

B. Punnett square was developed by a British scientist

C. Franklin Stahl coined the term 'linkage'

D. Transduction was discovered by S. Altman

Answer: B



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16. The experimental proof for semiconservative replication of DNA was first shown in a

- A. plant
- B. bacterium
- C. fungus
- D. virus

Answer: B



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17. Which of the following organisms breeds only once in lifetime ?

- A. Mango
- B. Jackfruit
- C. Bamboo species

D. Papaya

Answer: C



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18. Offsets are produced by

- A. parthenocarpy
- B. mitotic divisions
- C. meiotic divisions
- D. parthenogenesis

Answer: B



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19. Select the correct match.

- A. (a) Matthew Meselson and : *Pisum sativum* F. Stahl
- B. (b) Alfred Hershey and : *TMV* Martha Chase
- C. (c) Alec Jeffreys : *Streptococcus pneumoniae*
- D. (d) Francois Jacob and Jacques Monod : Lac operon

Answer: D



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20. Which of the following has proved helpful in preserving pollen of fossils

- A. Oil content
- B. Cellulosic intine
- C. Pollen kit
- D. Sporopollenin

Answer: D



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21. Natality refers to

- A. number of individuals leaving the habitat
- B. birth rate
- C. death rate
- D. number of individuals entering a habitat

Answer: B



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22. World Ozone Day is celebrated on

- A. 16th September
- B. 21st April
- C. 5th June

D. 22nd April

Answer: A



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23. Which of the following is a secondary pollutant ?

A. SO_2

B. CO_2

C. CO

D. O_3

Answer: D



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24. Niche is

- A. the range of temperature that the organism needs to live
- B. the physical space where an organism lives
- C. all the biological factors in the organism's environment
- D. the functional role played by an organism where it lives

Answer: D



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25. What type of ecological pyramid would be obtained with the following data ?

Secondary consumer : 120 g

Primary consumer : 60 g

Primary producer : 10 g

- A. Upright pyramid of numbers
- B. Pyramid of energy
- C. Inverted pyramid of biomass

D. Upright pyramid of biomass

Answer: C



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26. In stratosphere , which one of the following elements acts as a catalyst in degradation of ozone and release of molecular oxygen ?

A. Fe

B. Cl

C. Carbon

D. Oxygen

Answer: B



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27. The two functional groups characteristic of sugars are

- A. Carbonyl and phosphate
- B. Carbonyl and methyl
- C. Hydroxyl and methyl
- D. Carbonyl and hydroxyl

Answer: D



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28. Which among the following is not a prokaryote

- A. Nostoc
- B. Mycobacterium
- C. Saccharomyces
- D. Oscillatoria

Answer: A



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29. The Golgi complex participates in

- A. respiration in bacteria
- B. formation of secretory vesicles
- C. fatty acid breakdown
- D. activation of amino acid

Answer: B



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30. Which of the following is not a product of light reaction of phtosynthesis

A. NADPH

B. NADH

C. ATP

D. Oxygen

Answer: B



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31. Which of the following is true for nucleolus ?

A. It takes part in spindle formation

B. It is a membrane-bound structure

C. Larger nucleoli are present in dividing cells

D. It is a site for active ribosomal RNA synthesis

Answer: D



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32. Stomatal movement is not affected by

- A. O_2 concentration
- B. Light
- C. Temperature
- D. CO_2 concentration

Answer: A



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33. The stage during which separation of the paired homologous chromosomes begin is

- A. diakinesis
- B. diplotene
- C. pachytene

D. zygotene

Answer: B



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34. Stomata in grass leaf are

A. rectangular

B. kidney-shaped

C. dumb-bell-shaped

D. barrel-shaped

Answer: C



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35. Secondary xylem and phloem in dicot stem are produced by

- A. phellogen
- B. vascular cambium
- C. apical meristems
- D. axillary meristems

Answer: B



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36. Pneumatophores occur in

- A. carnivorous plants
- B. free-floating hydrophytes
- C. halophytes
- D. submerged hydrophytes

Answer:



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37. Casparian strips are present in the _____ of the root

- A. cortex
- B. pericycle
- C. epidermis
- D. endodermis

Answer: D



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38. Plants having little or no secondary growth are

- A. conifers
- B. deciduous angiosperms
- C. grasses

D. cycads

Answer: C



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39. Sweet potato is a modified

A. tap root

B. adventitious root

C. stem

D. rhizome

Answer: B



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40. Which one of the following statements is correct ?

- A. Horsetails are gymnosperms
- B. Selaginella is heterosporous, while Salvinia is homosporous
- C. Ovules are not enclosed by ovary wall in gymnosperms
- D. Stems are usually unbranched in both Cycas and Cedrus.

Answer: C



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41. Select the wrong statement.

- A. Pseudopodia are locomotory and feeding structures in sporozoans
- B. Mushrooms belong to Basidiomycetes
- C. Cell wall is present in members of Fungi and Plantae
- D. Mitochondria are the powerhouse of the cell in all kingdoms except Monera

Answer: A



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42. After karyogamy followed by meiosis, spores are produced exogenously in

- A. Agaricus
- B. Alternaria
- C. Neurospora
- D. Saccharomyces

Answer: A



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43. Match the items given in Column I with those in Column II and select the correct option given below

Column-I	Column-II
1. Herbarium	i. It is a place having a collection of preserved plants and animals.
2. Key	ii. A list that enumerates methodically all the species found in an area with brief description aiding identification.
3. Museum	iii. It is a place where dried and pressed plant specimens mounted on sheets are kept.
4. Catalogue	iv. A booklet containing a list of characters and their alternates which are helpful in identification of various taxa.

- A. 1 2 3 4
ii iv iii i
- B. 1 2 3 4
iii ii i iv
- C. 1 2 3 4
i iv iii ii
- D. 1 2 3 4
iii iv i ii

Answer: D



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44. Winged pollen grains are present in

- A. Mango
- B. Cycas
- C. Mustard
- D. Pinus

Answer: D



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45. Which one is wrongly matched

- A. Gemma cups - Marchantia
- B. Biflagellate zoospores - Brown algae
- C. Uniflagellate gametes - Polysiphonia
- D. Unicellular organism - Chlorella

Answer: C



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46. Which of the following options correctly represents the lung conditions in asthma and emphysema, respectively

- A. Increased respiratory surface , Inflammation of bronchioles
- B. Increased number of bronchioles , Increased respiratory surface
- C. Inflammation of bronchioles , Decreased respiratory surface
- D. Decreased respiratory surface , Inflammation of bronchioles

Answer: C



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47. Match the items given in Column I with those in Column II and select the correct option given below

Column I	Column II
1. Tricuspid valve	i. Between left atrium and left ventricle
2. Bicuspid valve	ii. Between right ventricle and pulmonary artery
3. Semilunar valve	iii. Between right atrium and right ventricle

- A. 1 2 3
i ii iii
- B. 1 2 3
i iii ii
- C. 1 2 3
iii i ii
- D. 1 2 3
ii i iii

Answer: C



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48. Match the items given in Column I with those in Column II and select the correct option given below

Column I	Column II
1. Tidal volume	i. 2500–3000 mL
2. Inspiratory reserve volume	ii. 1100–1200 mL
3. Expiratory reserve volume	iii. 500–550 mL
4. Residual volume	iv. 1000–1100 mL

- A. 1 2 3 4
i iv ii iii
- B. 1 2 3 4
iii i iv ii
- C. 1 2 3 4
iii ii i iv
- D. 1 2 3 4
iv iii ii i

Answer:



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49. The transparent lens in the human eye is held in its place by

- A. smooth muscles attached to the iris
- B. ligaments attached to the iris

C. ligaments attached to the ciliary body

D. smooth muscles attached to the ciliary body

Answer: D



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50. Which of the following is an amino acid derived hormone ?

A. Estradiol

B. Ecdysone

C. Epinephrine

D. Estriol

Answer: C



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51. Which of the following hormones can play a significant role in osteoporosis

- A. Estrogen and parathyroid hormone
- B. Progesterone and aldosterone
- C. Aldosterone and prolactin
- D. Parathyroid hormone and prolactin

Answer:



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52. Which of the following structures or region is incorrectly paired with its function ?

A.

(a) Hypothalamus Production of releasing hormones and regulation

B.

(b) Limbic system Consists of fibre tracts that interconnect different

C.

(c) Medulla oblongata Controls respiration and cardiovascular reflexes

D.

(d) Corpus callosum Band of fibres connecting left and right cerebral hemispheres

Answer: B



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53. The amnion of mammalian embryo is derived from

A. mesoderm and trophoblast

B. endoderm and mesoderm

C. ectoderm and mesoderm

D. ectoderm and endoderm

Answer: C



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54. Hormones secreted by the placenta to maintain pregnancy are

- A. hCG , hPL , progestogens , estrogens
- B. hCG , hPL , estrogens , relaxin , oxytocin
- C. hCG , hPL , progestogens , prolactin
- D. hCG , progestogens , estrogens , glucocorticoids

Answer: A



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55. The difference between spermiogenesis and spermiation is

- A. In spermiogenesis , spermatozoa from Sertoli cells are released into the cavity of seminiferous tubules , while in spermiation spermatozoa are formed
- B. In spermiogenesis , spermatozoa are formed , while in spermiation spermatids are formed
- C. In spermiogenesis , spermatids are formed while in spermiation spermatids are formed
- D. In spermiogenesis , spermatozoa are formed while in spermiation spermatozoa are released from Sertoli cells into the cavity of seminiferous tubules

Answer:



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56. The contraceptive 'SAHELI'

A. is an IUD

B. increases the concentration of estrogen and prevents ovulation in females

C. blocks estrogen receptors in the uterus preventing eggs from getting implanted

D. is a post-coital contraceptive

Answer: C



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57. Ciliates differ from all other protozoans in

A. using pseudopodia for capturing prey

B. having a contractile vacuole for removing excess water

C. using flagella for locomotion

D. having two types of nuclei

Answer: D



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58. Identify the vertebrate group of animals characterised by crop and gizzard in its digestive system

A. Aves

B. Reptilia

C. Amphibia

D. Osteichthyes

Answer: A



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59. Which of the following features is used to identify a male cockroach from a female cockroach ?

- A. Forewings with darker tegmina
- B. Presence of caudal styles
- C. Presence of a boat-shaped sternum on the 9th abdominal segment
- D. Presence of anal cerci

Answer: B



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60. Which one of these animals is not a homeotherm ?

- A. Camelus
- B. Chelone
- C. Macropus
- D. Psittacula

Answer: B



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61. Which of the following animals does not undergo metamorphosis

- A. Moth
- B. Tunicate
- C. Earthworm
- D. Starfish

Answer: C



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62. Which of the following organisms are known as chief producers in the oceans ?

- A. Cyanobacteria
- B. Diatoms
- C. Dinoflagellates

D. Euglenoids

Answer: B



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63. Which one of the following population interaction is widely used in medical science for the production of antibiotics ?

A. Parasitism

B. Mutualism

C. Commensalism

D. Amensalism

Answer: D



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64. All of the following are included in ex-situ conservation except

- A. botanical gardens
- B. sacred groves
- C. wildlife safari parks
- D. seed banks

Answer: B



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65. Match the items given in Column I with those in Column II and select the correct option given below .

Column-I	Column-II
1. Eutrophication	i. UV-B radiation
2. Sanitary landfill	ii. Deforestation
3. Snow blindness	iii. Nutrient enrichment
4. Jhum cultivation	iv. Waste disposal

- A.

1	2	3	4
iii	iv	i	ii
- B.

1	2	3	4
i	iii	iv	ii
- C.

1	2	3	4
ii	i	i	iv
- D.

1	2	3	4
i	ii	iv	iii

Answer: A



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66. In a growing population of a country .

- A. reproductive and pre-reproductive individuals are equal in number
- B. reproductive individuals are less than the post-reproductive individuals
- C. pre-reproductive individuals are more than the reproductive individuals

D. pre-reproductive individuals are less than the reproductive individuals

Answer: C



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67. Which part of poppy plant is used to obtain the drug Smack ?

A. Roots

B. Latex

C. Flowers

D. Leaves

Answer: B



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68. All of the following are parts of an operon except

- A. an enhancer
- B. structural genes
- C. an operator
- D. a promoter

Answer: A



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69. A woman has an X-linked condition on one of her X chromosomes .

This chromosome can be inherited by

- A. only grand children
- B. only sons
- C. only daughters
- D. Both (b) and (c)

Answer: D



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70. According to Hugo de Vries, the mechanism of evolution is

- A. phenotypic variations
- B. saltation
- C. multiple step mutations
- D. minor mutations

Answer: B



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71. AGGTATCGCAT is a sequence from the coding strand of a gene. What will be the corresponding sequence of the transcribed mRNA?

A. ACCUAUGCGAU

B. UGGTUTC GCAT

C. AGGUAUCGCAU

D. UCCAUGCGUA

Answer: C



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72. Match the items given in Column I with those in Column II and select the correct option given below .

Column-I		Column-II	
1.	Proliferative phase	i.	Breakdown of endometrial lining
2.	Secretory phase	ii.	Follicular phase
3.	Menstruation	iii.	Luteal phase

A. 1 2 3
ii iii i

B. 1 2 3
i iii ii

- 1 2 3
C. iii ii i
1 2 3
D. iii i ii

Answer: A



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73. Match the items given in Column I with those in Column II and select the correct option given below

Column-I	Column-II
1. Glycosuria	i. Accumulation of uric acid in joints.
2. Gout	ii. Mass of crystallised salts within the kidney.
3. Renal calculi	iii. Inflammation in glomeruli
4. Glomerular nephritis	iv. Presence of glucose in urine.

- 1 2 3 4
A. ii iii i iv
1 2 3 4
B. i ii iii iv

- 1 2 3 4
C. iii i iv i
- 1 2 3 4
D. iv i ii iii

Answer: D



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74. Match the items given in Column I with those in Column II and select the correct option given below

Column-I (Function)	Column-II (Part of Excretory System)
1. Ultrafiltration	i. Henle's loop
2. Concentration of urine	ii. Ureter
3. Transport of urine	iii. Urinary bladder
4. Storage of urine	iv. Malpighian corpuscle
	v. Proximal convoluted tubule

- 1 2 3 4
A. v iv i ii
- 1 2 3 4
B. iv i ii iii

- C. 1 2 3 4
 iv v ii iii
- D. 1 2 3 4
 v iv i iii

Answer: B



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75. Which of the following gastric cells indirectly help in erythropoiesis?

- A. Goblet cells
- B. Mucous cells
- C. Chief cells
- D. Parietal cells

Answer: D



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76. Match the items given in Column I with those in Column II and select the correct option given below

Column-I	Column-II
1. Fibrinogen	i. Osmotic balance
2. Globulin	ii. Blood clotting
3. Albumin	iii. Defence mechanism

- A. 1 2 3
i iii ii
- B. 1 2 3
i ii iii
- C. 1 2 3
iii ii i
- D. 1 2 3
ii iii i

Answer: D



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77. Which of the following is an occupational respiratory disorder?

- A. Botulism

B. Silicosis

C. Anthracis

D. Emphysema

Answer: B



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78. Calcium is important in skeletal muscle contraction because it

A. detaches the myosin head from the actin filament

B. activates the myosin ATPase by binding to it

C. binds to troponin to remove the masking of active sites on actin for myosin

D. Prevents the formation of bonds between the myosin cross bridges and the actin filament

Answer: C



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79. Nissl bodies are mainly composed of

- A. nucleic acids and SER
- B. DNA and RNA
- C. proteins and lipids
- D. free ribosomes and RER

Answer: D



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80. Which one of the statements is incorrect?

- A. Glycolysis operates as long as it is supplied with NAD that can pick up hydrogen atoms
- B. Glycolysis occurs in cytosol

C. Enzymes of TCA cycle are present in mitochondrial matrix

D. Oxidative phosphorylation takes place in outer mitochondrial membrane

Answer: D



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81. Select the incorrect match.

A. Submetacentric chromosomes — L-shaped chromosomes

B. Allosomes — Sex chromosomes

C. Lampbrush chromosomes — Diplotene bivalents

D. Polytene chromosomes — Oocytes of amphibians

Answer: D



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82. Which of the following terms describe humans dentition?

- A. Pleurodont, Monophyodont, Homodont
- B. Thecodont, Diphyodont, Heterodont
- C. Thecodont, Diphyodont, Homodont
- D. Pleurodont, Diphyodont, Heterodont

Answer: B



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83. Which of the following events does not occur in rough endoplasmic reticulum,

- A. Cleavage of signal peptide
- B. Protein glycosylation
- C. Protein folding
- D. Phospholipid synthesis

Answer: D



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84. Many ribosomes may associate with a single mRNA to form multiple copies of a polypeptide simultaneously. Such strings of ribosomes are termed as

A. plastidome

B. polyhedral bodies

C. polysome

D. nucleosome

Answer: C



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85. In which disease does mosquito transmitted pathogen cause chronic inflammation of lymphatic vessels

- A. Ringworm disease
- B. Ascariasis
- C. Elephantiasis
- D. Amoebiasis

Answer: C



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86. Which of the following is not an autoimmune disease?

- A. Alzheimer's disease
- B. Rheumatoid arthritis
- C. Psoriasis
- D. Vitiligo

Answer: A



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87. Among the following sets of examples for divergent evolution, select the incorrect option

- 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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88. Conversion of milk to curd improves its nutritional value by increasing the amount of

A. vitamin— B_{12}

B. vitamin-A

C. vitamin-D

D. vitamin-E

Answer: A



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89. The term for similarity in organ structure seen in great diversity is

Or

The similarity of bone structure in the forelimbs of many vertebrates is an example of

A. convergent evolution

B. analogy

C. homology

D. adaptive radiation

Answer: C



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90. Which of the following characteristics represents Inheritance of blood groups in humans ?

1. Dominance
2. Codominance
3. Multiple allele
4. Incomplete dominance
5. Polygenic inheritance

A. 2,4 and 5

B. 1, 2 and 3

C. 2, 3 and 5

D. 1, 3 and 5

Answer: B





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