



BIOLOGY

BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)

RE-NEET 2020

Others

1. In some plants thalamus contributes to fruit formation. Such fruits are termed as:

A. False fruits

B. Aggregate fruits

C. True fruits

D. Parthenocarpic fruits

Answer: A



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2. First discovered restriction endonuclease that always cuts DNA molecule at a particular point by recognising a specific sequence of six base pairs is

A. EcoRI

B. Adenosine deaminase

C. Thermostable DNA polymerase

D. Hind II

Answer: D



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3. Which of the following statements is incorrect?

- A. biomass decreases from first to fourth trophic level
- B. energy content gradually increases from first to fourth trophic levels.
- C. number of individuals decreases from first trophic level to fourth trophic level
- D. Energy content gradually decreases from first to fourth trophic level

Answer: B



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4. The term 'Nuclein' for the genetic material was used by:

- A. Franklin
- B. Meischer
- C. Chargaff
- D. Mendel

Answer: B



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5. Chromosomal theory of inheritance was proposed by:

- A. Sutton and Boveri

B. Bateson and Punnet

C. T.H. Morgan

D. Watson and crick

Answer: A



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6. Phycoerythrin is the major pigment in:

A. Red Algae

B. Blue green algae

C. green algae

D. brown algae

Answer: A



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7. Identify the statement which is incorrect

- A. Sulphur is an integral part of cysteine
- B. Glycine is an example of lipids
- C. Lecithin contains phosphorus atom in its structure
- D. Tyrosine possesses aromatic ring in its structure

Answer: B



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8. Which of the following statements is incorrect about gymnosperms?

- A. They are heterosporous
- B. Male and female gametophytes are free living
- C. Most of them have narrow leaves with thick cuticle
- D. Their seeds are not covered

Answer: B



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9. A species which was introduced for ornamentation but has become a trouble some weed in India:

- A. *Parthenium hysterophorus*
- B. *Eichhornia crassipes*
- C. *Prosopis juliflora*

D. *Trapa spinosa*

Answer: B



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10. Correct position of floral parts over thalamus in mustard plant is:

- A. Gynoecium occupies the highest position, while the other parts are situated below it.
- B. Margin of the thalamus grows upward, enclosing the ovary completely, and other parts arise below the ovary
- C. Gynoecium is present in the centre and other parts cover it partially.

D. Gynoecium is situated in the centre ,and other parts of the flower are located at the rim of the thalamus, at the same level

Answer: A



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11. In Recombinant DNA technology antibiotics are used:

- A. to keep medium bacteria free
- B. to detect alien DNA
- C. to impart disease-resistance to the host plant
- D. as selectable markers

Answer: B::D



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12. According to Alexander von Humboldt:

- A. species richness decreases with increasing area of exploration
- B. species richness increases with increasing area, but only up to limit
- C. there is no relationship between species richness and area explored
- D. species richness goes on increasing with increasing area of exploration

Answer: B



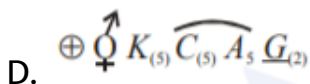
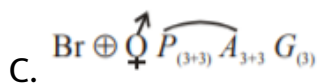
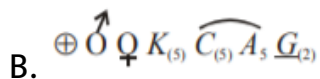
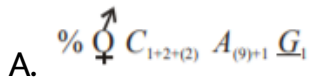
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13. Which of the following is incorrect for wind-pollinated plants?

- A. well exposed stamens and stigma
- B. many ovules in each ovary
- C. flowers are small and not brightly coloured
- D. pollen grains are light and non-sticky

Answer: B

14. Which of the following is the correct floral formula of Liliaceae



Answer: C



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15. In the polynucleotide chain of DNA, a nitrogenous base is linked to the -OH of:

A. 2'C pentose sugar

B. 3'C pentose sugar

C. 5'C penotse sugar

D. ^{14}C pentose sugar

Answer: D



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16. In Glycine max, the product of biological nitrogen fixation is transported from the root nodules to other parts as:

- A. Ammonia
- B. Glutamate
- C. Nitrates
- D. Ureides

Answer: D



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17. The number of contrasting characters studied by Mendel for his experiments was:

A. 14

B. 4

C. 2

D. 7

Answer: D



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18. Attachment of spindle fibres to kinetochores of chromosomes becomes evident in:

A. Anaphase

B. Telophase

C. Prophase

D. Metaphase

Answer: D



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19. Match the items in Column-I with those in Column-II

Column I

Column II

(a) Herbivores-Plants

(i) Commensalism

(b) Mycorrhiza-Plants

(ii) Mutualism

(c) Sheep-Cattle

(iii) Predation

(d) Orchid-Tree

(iv) Competition

Select the correct option from following:

A. $(a) - (iv), (b) - (ii), (c) - (i), (d) - (iii)$

B. $(a) - (iii), (b) - (iI), (c) - (iv), (d) - (i)$

C. $(a) - (ii), (b) - (i), (c) - (iIi), (d) - (iv)$

D. $(a) - (i), (b) - (iii), (c) - (iv), (d) - (ii)$

Answer:



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20. Vegetative propagule in Agave is as:

A. Rhizome

B. Bulbil

C. Offset

D. Eye

Answer: B



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21. Match the following

- | | |
|--------------------|---------------------|
| (a) Aquaporin | (i) Amide |
| (b) Asparagine | (ii) Polysaccharide |
| (c) Absciscic acid | (iii) Polypeptide |
| (d) Chitin | (iv) Carotenoids |

Select the correct option:

- A. $a) - (iii), (b) - (i), (c) - (iv), (d) - (ii)$
- B. $(a) - (ii), (b) - (iii), (c) - (iv), (d) - (i)$
- C. $(a) - (ii), (b) - (i), (c) - (iv), (d) - (iii)$
- D. $(a)-(iii), (b)-(i), (c) -(ii), (d)-(iv)$

Answer: A



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22. Which of the following elements helps in maintaining the structure of ribosomes?

- A. Magnesium
- B. Zinc
- C. Copper
- D. Molybdenum

Answer: A



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23. Who coined the term 'Kinetin'?

A. Skoog and Miller

B. Darwin

C. Went

D. Kurosawa

Answer: A



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24. In the following in each set a conservation approach and an example of method of conservation are given

(a) In situ conservation-Biosphere Reserve

(b) Ex situ conservation-Sacred grooves

(c) In situ conservation-Seed bank

(d) Ex situ conservation-Cryopreservation

Select the option with correct match of approach and method:

A. (a) and (c)

B. (a) and (d)

C. (b) and (d)

D. (a) and (b)

Answer: B



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25. Embryological support for evolution was proposed by:

A. Ernst Haeckel

B. Karl Ernst von Baer

C. Charles Darwin

D. Alfred Wallace

Answer: A



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26. During non-cyclic photophosphorylation, when electrons are lost from the reaction centre at PS-II, what is the source which replaces these electrons?

- A. Oxygen
- B. Water
- C. Carbon dioxide
- D. Light

Answer: B



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27. In a mitotic cycle,the correct sequence of phases is

A. S,G1,G2,M

B. G1,S,G2,M

C. M,G1,G2,S

D. G1,G2,S,M

Answer: B



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28. Inclusion bodies of blue-green,purple and green photosynthetic bacteria are:

A. Contractile vacuoles

B. Gas vacuoles

C. Centrioles

D. Microtubules

Answer: B



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29. Large, empty colourless cells of the adaxial epidermis along the veins of grass leaves are

A. Lenticels

B. Guard cells

C. Bundle sheath cells

D. Bulliform cells

Answer: D



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30. The biosynthesis of ribosomal RNA occurs in:

- A. Ribosomes
- B. Golgi apparatus
- C. Microbodies
- D. Nucleolus

Answer: D



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31. Which of the following is incorrect about Cyanobacteria?

- A. They are photoautotrophs
- B. they lack heterocysts
- C. they often form blooms in polluted water bodies
- D. they have chlorophyll A similar to green plants

Answer: B



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32. Which of the following statements about cork cambium is incorrect?

- A. it forms secondary cortex on its outside

- B. it forms a part of periderm
- C. it is responsible for the formation of lenticels
- D. it is couple of layers thick

Answer: A



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33. Select the incorrect statement

- A. Transport of molecules in phloem can be bidirectional
- B. Movement of minerals in xylem is unidirectional
- C. Unloading of sucrose at sink does not involve the utilization of ATP

D. Elements most easily mobilized in plants from one region to another are phosphorous, sulphur, nitrogen and potassium

Answer: C



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34. Air (Prevention and Control of Pollution) Act was amended in 1987 to include among pollutants

- A. Vehicular exhaust
- B. allergy causing pollen
- C. noise
- D. particulates of size 2.5 micrometer or below

Answer: C



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35. Inhibitory substances in dormant seeds cannot be removed by subjecting seeds to:

- A. Gibberellic acid
- B. Nitrate
- C. Ascorbic acid
- D. Chilling conditions

Answer: C



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36. Match the following techniques or instruments with their

usage:

- | | |
|---------------------|---|
| (a) Bioreactor | (i) Separation of DNA fragments |
| (b) Electrophoresis | (ii) Production of large quantities of products |
| (c) PCR | (iii) Detection of pathogen, based on antigen - antibody reaction |
| (d) ELISA | (iv) Amplification of nucleic acids |

Select the correct option from following :

- A. (a) – (iii), (b) – (ii), (c) – (iv), (d) – (i)
- B. (a) – (ii), (b) – (i), (c) – (iv), (d) – (iii)
- C. (a) – (iv), (b) – (iii), (c) – (ii), (d) – (i)
- D. (a) – (ii), (b)-(i), (c)-(iii), (d)-(iv)

Answer: B



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37. Which of the following statements is incorrect?

- A. RuBisCo is a bifunctional enzyme
- B. In C₄ plants, the site of RuBisCo activity is mesophyll cell
- C. The substrate molecule for RuBisCo activity is a 5-carbon compound
- D. RuBisCo action requires ATP and NADPH

Answer: B



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38. Which of the following statements is incorrect regarding the phosphorus cycle?

- A. phosphates are the major form of phosphorus reservoir
- B. phosphorus solubilising bacteria facilitate the release of phosphorus from organic remains
- C. there is appreciable respiratory release of phosphorus into atmosphere
- D. It is sedimentary cycle

Answer: C



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39. After about how many years of formation of earth,life appeared on this planet?

- A. 500 billion years
- B. 50 million years
- C. 500 million years
- D. 50 billion years

Answer: C



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40. In a mixture,DNA fragments are separated by:

- A. Bioprocess engineering

B. Restriction digestion

C. Electrophoresis

D. Polymerase Chain Reaction

Answer: C



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41. Identify the correct features of Mango and Coconut fruits.

(i) In both fruit is a drupe

(ii) Endocarp is edible in both

(iii) Mesocarp in Coconut is fibrous, and in Mango it is fleshy

(iv) In both, fruit develops from monocarpellary ovary. Select the correct option from below:

A. (i), (iii) and (iv) only

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

C. (i) and (iv) only

D. (i) and (ii) only

Answer: A



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42. The impact of immigration on population density is:

A. Negative

B. Both positive and negative

C. Neutralized by natality

D. Positive

Answer: D



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43. Male and female gametophytes do not have an independent free living existence in:-

A. Pteridophytes

B. Algae

C. Angiosperms

D. Bryophytes

Answer: C



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44. Match the following concerning the activity/function and the phytohormone involved:

- | | |
|--------------------|----------------------|
| (a) Fruit ripener | (i) Absciscic acid |
| (b) Herbicide | (ii) GA ₃ |
| (c) Bolting agent | (iii) 2, 4-D |
| (d) Stress hormone | (iv) Ethephon |

A. (a) – (ii), (b) – (iii), (c) – (iv), (d) – (i)

B. (a) – (iii), (b) – (iv), (c) – (ii), (d) – (i)

C. (a) – (iv), (b) – (iii), (c) – (ii), (d) – (i)

D. (a) – (iv), (b) – (ii), (c) – (i), (d) – (iii)

Answer: C



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45. Pyruvate dehydrogenase activity during aerobic respiration requires:-

- A. Calcium
- B. Iron
- C. Cobalt
- D. Magnesium

Answer: D



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46. The rate of decomposition is faster in the ecosystem due to the following factors EXCEPT:-

- A. Detritus rich in sugars

- B. Warm and moist environment
- C. Presence of aerobic soil microbes
- D. Detritus richer in lignin and chitin

Answer: D



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47. For the commercial and industrial production of Citric acid, which of the following microbes is used?

- A. *Aspergillus niger*
- B. *Lactobacillus* sp
- C. *Saccharomyces cerevisiae*
- D. *Clostridium butylicum*

Answer: A



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48. which of the following STDs are not curable?

- A. Genital herpes,Hepatitis B,HIV infection
- B. Chlamydiasis,Syphilis,genital warts
- C. HIV,Gonorrhea,Trichomoniasis
- D. Gonorrhea,Trichomoniasis,Hepatitis B

Answer: A



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49. Spooling is:-

- A. Amplification of DNA
- B. Cutting of seperated DNA bands from the agarose gel
- C. Transfer of separated DNA framents to synthetic membranes
- D. Collection of isolated DNA

Answer: D



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50. The phenomenon of evolution of different species in a given geographical area starting from a point and spreading to other habitats is called :-

- A. Saltation
- B. Co-evolution
- C. Natural selection
- D. Adaptive radiation

Answer: D



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51. The best example for pleiotropy is :-

- A. Skin colour
- B. Phenylketoneuria
- C. Colour Blindness
- D. ABO Blood group

Answer: B



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52. In cockroach, identify the parts of the foregut in correct sequence :-

A.

Mouth → Oesophagus → Pharynx → Crop → Gizzard

B.

Mouth → Crop → Pharynx → Oesophagus → Gizzard

C.

Mouth → Gizzard → Crop → Pharynx → Oesophagus

D.

Mouth → Pharynx → Oesophagus → Crop → Gizzard

Answer: D



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53. Match the following columns and select the correct option:-

Column-I

- (a) Pituitary hormone
- (b) Epinephrine
- (c) Endorphins
- (d) Cortisol

Column-II

- (i) Steroid
- (ii) Neuropeptides
- (iii) Peptides, proteins
- (iv) Biogenic amines

- A. (a) – (iv), (b) – (i), (c) – (ii), (d) – (iii)
- B. (a) – (iii), (b) – (iv), (c) – (ii), (d) – (i)
- C. (a) – (iv), (b) – (iii), (c) – (i), (d) – (ii)
- D. (a) – (iii), (b) – (iv), (c) – (i), (d) – (ii)

Answer: B



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54. Which of the following options does correctly represent the characteristic features of phylum annelida?

- A. Triploblastic, unsegmented body and bilaterally symmetrical.
- B. Triploblastic, segmented body and bilaterally symmetrical.
- C. Triploblastic, flattened body and acoelomate condition.
- D. Diploblastic, mostly marine and radially symmetrical

Answer: B



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55. Match the following columns and select the correct option

Column-I	Column-II
(a) Dragonflies	(i) Biocontrol agents of several plant pathogens
(b) <i>Bacillus thuringiensis</i>	(ii) Get rid of Aphids and mosquitoes
(c) Glomus	(iii) Narrow spectrum insecticidal applications
(d) Baculoviruses	(iv) Biocontrol agents of lepidopteran plant pests
	(v) Absorb phosphorus from soil

∴

- A. (a) – (iii), (b) – (v), (c) – (iv), (d) – (i)
- B. (a) – (ii), (b) – (i), (c) – (iii), (d) – (iv)
- C. (a) – (ii), (b) – (iii), (c) – (iv), (d) – (v)
- D. (a) – (ii), (b) – (iv), (c) – (v), (d) – (iii)

Answer: D



56. Intrinsic factor that helps in the absorption of vitamin B12 is secreted by :-

- A. Goblet cells
- B. Hepatic cells
- C. Oxyntic cells
- D. Chief cells

Answer: C

57. Hormones stored and released from neurohypophysis are :-

- A. Thyroid stimulating hormone and Oxytocin
- B. Oxytocin and Vasopressin
- C. Follicle stimulating hormone and Leutinizing hormone
- D. Prolactin and Vasopressin

Answer: B



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58. Match the following columns and select the correct option :

Column - I

- (i) Typhoid
- (ii) Malaria
- (iii) Pneumonia
- (iv) Filariasis

Column - II

- (a) *Haemophilus influenzae*
- (b) *Wuchereria bancrofti*
- (c) *Plasmodium vivax*
- (d) *Salmonella typhi*

- A. (i) – (d), (ii) – (c), (iii) – (a), (iv) – (b)
- B. (i) – (c), (ii) – (d), (iii) – (b), (iv) – (a)

C. $(i) - (a), (ii) - (c), (iii) - (b), (iv) - (d)$

D. $(i) - (a), (ii) - (b), (iii) - (d), (iv) - (c)$

Answer: A



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59. In human beings, at the end of 12 weeks (first trimester) of pregnancy, the following is observed:

A. Eyelids and eyelashes are formed

B. Most of the major organ systems are formed

C. The head is covered with fine hair

D. Movement of the foetus

Answer: D



60. Match the following columns and select the correct option

Column - I

- (a) Rods and Cones
- (b) Blind Spot
- (c) Fovea
- (d) Iris

Column - II

- (i) Absence of photoreceptor cells
- (ii) Cones are densely packed
- (iii) Photoreceptor cells
- (iv) Visible coloured portion of the eye

:

- A. (a) – (iii), (b) – (i), (c) – (ii), (d) – (iv)
- B. (a) – (ii), (b) – (iii), (c) – (i), (d) – (iv)
- C. (a) – (iii), (b) – (iv), (c) – (ii), (d) – (i)
- D. (a) – (ii), (b) – (iv), (c) – (iii), (d) – (i)

Answer: C



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61. The size of Pleuropneumonia - like Organism (PPLO) is :

A. 0.02 P m

B. 1-2 P m

C. 10-20 P m

D. 0.1 P m

Answer: A



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62. The proteolytic enzyme rennin is found in :

A. Intestinal juice

B. Bile juice

C. Gastric juice

D. Pancreatic juice

Answer: D



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63. Match the following group of organisms with their respective distinctive characteristics and select the correct

Organisms	Characteristics
(a) Platyhelminthes	(i) Cylindrical body with no segmentation
(b) Echinoderms	(ii) Warm blooded animals with direct development
(c) Hemichordates	(iii) Bilateral symmetry with incomplete digestive system
(d) Aves	(iv) Radial symmetry with indirect development

option:

- A. (a) – (iii), (b) – (iv), (c) – (i), (d) – (ii)
- B. (a) – (ii), (b) – (iii), (c) – (iv), (d) – (i)
- C. (a) – (iv), (b) – (i), (c) – (ii), (d) – (iii)
- D. (a) – (i), (b) – (ii), (c) – (iii), (d) – (iv)

Answer: C



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64. Cyclosporin A, used as immuno suppression agent, is produced from :

- A. *Monascus purpureus*
- B. *Saccharomyces cerevisiae*
- C. *Penicillium notatum*
- D. *Trichoderma polysporum*

Answer: D



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65. Select the correct statement from the following :

- A. Gel electrophoresis is used for amplification of a DNA segment.
- B. The polymerase enzyme joins the gene of interest and the vector DNA.
- C. Restriction enzyme digestions are performed by incubating purified DNA molecules with the restriction enzymes of optimum conditions.
- D. PCR is used for isolation and separation of gene of interest.

Answer: A



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66. The increase in osmolarity from outer to inner medullary interstitium is maintained due to : (i) Close proximity between Henle's loop and vasa recta (ii) Counter current mechanism (iii) Selective secretion of HCO_3^- and hydrogen ions in PCT (iv) Higher blood pressure in glomerular capillaries

- A. Only(ii)
- B. (iii) and (iv)
- C. (i), (ii) and (iii)
- D. (i) and (ii)

Answer: A



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67. The yellowish fluid "colostrum" secreted by mammary glands of mother during the initial days of lactation has abundant antibodies (IgA) to protect the infant. This type of immunity is called as :

- A. Passive immunity
- B. Active immunity
- C. Acquired immunity
- D. Autoimmunity

Answer: A



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68. Match the following columns with reference to cockroach and select the correct options:

Column - I

- (a) Grinding of the food particles
- (b) Secrete gastric juice
- (c) 10 pairs
- (d) Anal cerci

Column - II

- (i) Hepatic caecal
- (ii) 10th segment
- (iii) Proventriculus
- (iv) Spiracles
- (v) Alary muscles

A. (a) – (iii), (b) – (i), (c) – (iv), (d) – (ii)

B. (a) – (iv), (b) – (iii), (c) – (v), (d) – (ii)

C. (a) – (i), (b) – (iv), (c) – (iii), (d) – (ii)

D. (a) – (ii), (b) – (iii), (c) – (i), (d) – (iv)

Answer: B



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69. RNA interference is used for which of the following purposes in the field of biotechnology ?

- A. to develop a plant tolerant to abiotic stresses
- B. to develop a pest resistant plant against infestation by nematode
- C. to enhance the mineral usage by the plant
- D. to reduce post harvest losses

Answer: A



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70. E.coli has only 4.6×10^6 base pairs and completes the process of replication within 18 minutes, then the average rate of polymerisation is approximately

- A. 2000 base pairs/second
- B. 3000 base pairs/second
- C. 4000 base pairs/second
- D. 1000 base pairs/second

Answer: C



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71. Progestogens alone or in combination with estrogens can be used as a contraceptive in the form of -

- A. Implants only
- B. Injections only
- C. Pills, injections and implants
- D. Pills only

Answer: B



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72. According to central pollution Control Board [CPCB] what size (in diameter) of particulate is responsible for causing greater harm to human health?

- A. 3.5 *micrometers*
- B. 2.5 *micrometers*

C. 4.0 *micrometers*

D. 3.0 *micrometers*

Answer: B



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73. The Total Lung Capacity (TLC) is the total volume of air accommodated in the lungs at the end of a forced inspiration.

This includes :

A. RV, IC (Inspiratory Capacity), EC (Expiratory Capacity), and

ERV

B. RV, ERV, IC and EC

C. RV, ERV, VC (Vital Capacity) and FRC (Functional Residual Capacity)

D. RV (Residual Volume), ERV (Expiratory Reserve Volume), TV (Tidal Volume), and IRV (Inspiratory Reserve Volume)

Answer: D



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74. Select the correct option of haploid cells from the following groups :

A. Primary oocyte, Secondary oocyte, Spermatid

B. Secondary spermatocyte, First polar body, Ovum

C. Spermatogonia, Primary spermatocyte, Spermatid

D. Primary spermatocyte, Secondary spermatocyte, Second polar body

Answer: B



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75. During Meiosis 1, in which stage synapsis takes place ?

A. Pachytene

B. Zygotene

C. Diplotene

D. Leptotene

Answer: B



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76. Match the following columns and select the correct option :

Column - I

(a) Smooth
endoplasmic
reticulum

(b) Rough
endoplasmic
reticulum

(c) Golgi complex

(d) Centriole

Column - II

(i) Protein synthesis

(ii) Lipid synthesis

(iii) Glycosylation

(iv) Spindle formation

A. (a) – (ii), (b) – (i), (c) – (iii), (d) – (iv)

B. (a) – (iii), (b) – (i), (c) – (ii), (d) – (iv)

C. (a) – (iv), (b) – (ii), (c) – (i), (d) – (iii)

D. (a) – (i), (b) – (ii), (c) – (iii), (d) – (iv)

Answer: A



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77. Select the correct statement :

- A. Atrial Natriuretic Factor increases the blood pressure.
- B. Angiotensin II is a powerful vasodilator
- C. Counter current pattern of blood flow is not observed in vasa recta.
- D. Reduction in Glomerular Filtration Rate activates JG cells to release renin.

Answer: D



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78. Which of the following is associated with decrease in cardiac output ?

- A. Sympathetic nerves
- B. Parasympathetic neural signals
- C. Pneumotaxic centre
- D. Adrenal medullary hormon

Answer: B



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79. Inbreeding depression is -

- A.) Reduced motility and immunity due to close inbreeding

- B. Decreased productivity due to mating of superior male and inferior female
- C. Decrease in body mass of progeny due to continued close inbreeding
- D. Reduced fertility and productivity due to continued close inbreeding

Answer: D



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80. Select the incorrectly matched pair from following:

- A. Chondrocytes - Smooth muscle cells
- B. Neurons - Nerve cells

C. Fibroblast - Areolar tissue

D. Osteocytes - Bone cells

Answer: A



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81. The laws and rules to prevent unauthorised exploitation of bio-resources are termed as -

A. Biopatenting

B. Bioethics

C. Bioengineering

D. Biopiracy

Answer: A



82. Match the following columns and select the correct option :

Column - I

Column - II

(a) Ovary

(i) Human chorionic
Gonadotropin

(b) Placenta

(ii) Estrogen &
Progesterone

(c) Corpus luteum

(iii) Androgens

(d) Leydig cells

(iv) Progesterone only

A. (a) – (iv), (b) – (iii), (c) – (ii), (d) – (i)

B. (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)

C. (a)-(i), (b)-(iii), (c)-(ii), (d)-(iv)

D. (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

Answer: D

83. Match the following columns and select the correct option :

Column - I

(a) *Aptenodytes*

(b) *Pteropus*

(c) *Pterophyllum*

(d) *Petromyzon*

Column - II

(i) Flying fox

(ii) Angel fish

(iii) Lamprey

(iv) Penguin

A. (a) – (iii), (b) – (iv), (c) – (ii), (d) – (i)

B. (a) – (iii), (b) – (iv), (c) – (i), (d) – (ii)

C. (a) – (iv), (b) – (i), (c) – (ii), (d) – (iii)

D. (a) – (ii), (b) – (i), (c) – (iv), (d) – (iii)

Answer: C



84. A Hominid fossil discovered in Java in 1891, now extinct, having cranial capacity of about 900 cc was:

- A. Homo erectus
- B. Neanderthal man
- C. Homo sapiens
- D. Australopithecus

Answer: A



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85. Match the following columns and select the correct option

- | | |
|--------------------------|---|
| (a) G_1 phase | (i) Cell grows and organelle duplication |
| (b) S phase | (ii) DNA replication and chromosome duplication |
| (c) G_2 phase | (iii) Cytoplasmic growth |
| (d) Metaphase in M-phase | (iv) Alignment of chromosomes |

A. (a) – (i), (b) – (iii), (c) – (ii), (d) – (iv)

B. (a) – (i), (b) – (iii), (c) – (ii), (d) – (iv)

C. (a) – (i), (b) – (iii), (c) – (ii), (d) – (iv)

D. (a) – (i), (b) – (iii), (c) – (ii), (d) – (iv)

Answer: D

86. Match the following columns and select the correct option

Column - I

- (a) Pneumotaxic Centre
- (b) O₂ Dissociation curve
- (c) Carbonic Anhydrase
- (d) Primary site of exchange of gases

Column - II

- (i) Alveoli
- (ii) Pons region of brain
- (iii) Haemoglobin
- (iv) R.B.C.

- A. (a) – (i), (b) – (iii), (c) – (ii), (d) – (iv)
- B. (a) – (ii), (b) – (iii), (c) – (iv), (d) – (i)
- C. (a) – (iii), (b) – (ii), (c) – (iv), (d) – (i)
- D. (a) – (iv), (b) – (i), (c) – (iii), (d) – (ii)

Answer: B



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87. Which is the basis of genetic mapping of human genome as well as DNA finger printing?

- A. Polymorphism in DNA sequence
- B. Single nucleotide polymorphism
- C. Polymorphism in hnRNA sequence
- D. Polymorphism in RNA sequence

Answer: A



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88. which of the following conditions cause erythroblastosis foetals?

- A. Mother $Rh^{(+ve)}$ and *foetus* $Rh^{(-ve)}$
- B. Mother $Rh^{(-ve)}$ and *foetus* $Rh^{(+ve)}$
- C. Both mother and foetus (Rh^{-ve})
- D. Both mother and foetus (Rh^{+ve})

Answer: B



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89. “All vertebrates are chordates but all chordates are not vertebrates”. Justify the statement.

- A. Notochord is replaced by vertebral column in adult of some chordates.
- B. ventral hollow nerve cord remains throughout life in some chordates.
- C. All chordates posses vertebral column.
- D. All chordates possess notochord throughout their life.

Answer: A



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90. Match the following columns and select the correct option

Column - I

(a) Gout

(b) Osteoporosis

(c) Tetany

(d) Muscular
dystrophy

Column - II

(i) Decreased
levels of estrogen

(ii) Low Ca^{++} ions
in the blood

(iii) Accumulation
of uric acid crystals

(iv) Auto immune
disorder

(v) Genetic disorder

A. (a) – (ii), (b) – (i), (c) – (iii), (d) – (iv)

B. (a) – (iii), (b) – (i), (c) – (ii), (d) – (v)

C. (a) – (iv), (b) – (v), (c) – (i), (d) – (ii)

D. (a) – (i), (b) – (ii), (c) – (iii), (d) – (iv)

Answer: B



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