

NEET-2020 Model Paper-1

Biology

1) Photosynthetic apparatus in blue green algae:

1. Chloroplasts
 2. Chromatophores
 3. Mesosomes
 4. Centrosomes
-

2) Wrong statement from the following?

1. Biennials like cabbages or carrots can be induced to flower in the same season by Gibberellic acid
 2. Spring variety rye sown in spring flowers normally
 3. Winter variety must be planted in autumn for normal flowering
 4. Biennials require vernalization to flower in the same season
-

3) Specific layers present in the apical meristems of Angiosperms are referred as:

1. Histogens
 2. Tunics
 3. Embryonal layers
 4. Germinal layers
-

4) Before Mendel many others failed to discover the laws of heredity. The major reason for Mendel's success is:

1. His choice of material for his experiments
 2. Selection of true breeding parents
 3. Self-crossing the F1 generation plants
 4. Confining his attention to a single character at a time
-

5) What term is used for a non & protein organic molecule that is required by some enzymes in order to catalyse a reaction on a substrate?

1. Co-factor
 2. Apoenzyme
 3. Inducer
 4. Co-enzyme
-

6) In a polypeptide chain..

1. Peptide bond forms between two (-COOH) groups.
 2. Phosphodiester bond forms
 3. In between amino acids peptide eliminates water moiety
 4. Between amino acids disulphide bond forms
-

7) A teacher wants to show pachytene stage to his pupils. Which of the following material is best suited for his demonstration?

1. Root apices
2. Theca of stamens

3. Germinating spore
4. Bone marrow

8) Nitrogen fixing bacteria that also performs photosynthesis is:

1. *Azotobacter*
2. *Nitrosomonas*
3. *Rhodospirillum*
4. *Methanococcus*

9) Which of the following is not related to downstream processing?

1. Drying
2. Crystallization
3. Chromatography
4. Southern Blotting

10) Feature not related to 'slime molds':

1. Chitinous cell wall
2. Insensitive to penicillin
3. Heterotrophic
4. Spore producing

11) Which of the following organisms poses difficulty in extraction of its nuclear DNA?

1. Fungi
2. Plant tissue
3. Animal tissue
4. Gram positive bacteria

12) The viability of pollen grain is tested in laboratory by:

1. Germinating in 0.25M sucrose solution
2. Tetrazolium chloride
3. Lactophenol
4. Scanning Electron Microscopy

13) Functions not attributed to rRNA:

1. It is a structural component of the cell
2. It helps in genetic expression
3. It is a regulator of gene expression
4. It is a carrier of genetic information

14) Collection of wild plants, or its seeds/ propagules, belong to a locality with all available alleles and preserving them is:

1. Herbarium
2. Flora
3. Gene bank
4. Genomic library

15) Pigments that show response to red light?

1. Chlorophylls
2. Phytochromes

3. Xanthophylls
 4. Both (1) & (2)
-

16) Use of Taq polymerase in PCR is:

1. It is much faster than other polymerases
 2. Aberrations are minimum
 3. It can withstand high temperatures
 4. All the above
-

17) Which of the following statements is/are correct?

- a) Forest is a climax community in plant succession
 - b) Forest is an example of an ecosystem
1. Both (a) and (b) are incorrect
 2. (a) is correct and (b) is incorrect
 3. (a) is incorrect and (b) is correct
 4. Both (a) and (b) are correct
-

18) Glycolysis is:

1. Oxidation of sugars in cytosol
 2. Break down of Glucose into three carbon compound
 3. Oxidation of Glucose/ Glycogen to form organic acids
 4. Oxidative respiratory pathway
-

19) Which one of the following statements is wrong?

1. Avena coleoptile curvature test is performed in dark or red light.
 2. Test is used to know the presence and concentration of auxins in a given substance,
 3. Even without light curvature is observed in the coleoptiles
 4. Test is based on phototropic movement of the coleoptile
-

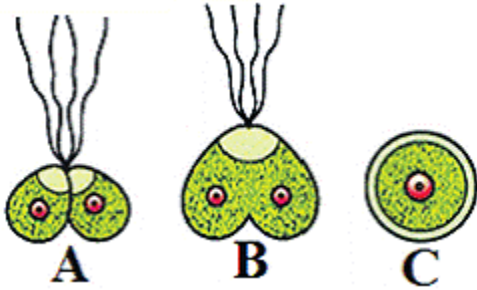
20) In *Antirrhinum majus* colour of the flower can be red or white or pink. True statement regarding this is:

1. Colour of the flower is controlled by three different genes
 2. Colour is multiple allelic. Red dominant over both pink and white
 3. Colour is biallelic but do not segregate
 4. Red and white are true breeds. Red is not completely dominant over white
-

21) Outermost suberized layer of mature roots is:

1. Epidermis
 2. Periderm
 3. Cork
 4. Exodermis
-

22) Correct statement regarding the figure given here:



1. A-Fusion of motile isogametes
- B-Formation of motile zygote
2. B - Tetraflagellate binucleate zygote
- C - Diploid individual
3. A-Union of heterogametes
- B- Formation of Zygote
4. A, B, C are conjugation of individuals resulting in zygote

23) A student lifted a stone in a crop field only to find some seedling below it. All of them are elongated and without any pigment. This condition is:

1. Due to over production of ethylene in the absence of sufficient oxygen.
2. Chlorosis, a condition developed in the absence of light.
3. Photo-oxidation of pigments in insufficient light
4. Etiolation, the consequence of absence of light

24) Cytochrome a₁, a₃ complex has highest affinity for:

1. Protons
2. Copper
3. Oxygen
4. All the above

25) In a population..

1. Chances of pollination decreases
2. High rate of source depletion occurs
3. Minimum competition between individuals
4. Variation exists

26) Ability to form different structural features in response to environment is called as:

1. Stimulation
2. Differentiation
3. Plasticity
4. Adaptation

27) Red colour of the Red Sea is due to:

1. Pollution of water with ferric salts
2. Enormous growth of specific blue green alga÷
3. Growth of large number of organisms with fucoxanthin
4. Enormous multiplication of *Gonyaulax*, a dinoflagellate

28) In a cross between two pea plants with genotype RrYY and rrYy, which of the

following phenotypes do not appear in the progeny. ("R" is for round and "r" for wrinkle seed : "Y" is for Yellow and "y" is for green cotyledons)

- a) Round Yellow
- b) Round Green
- c) Wrinkled Green
- d) Wrinkled Yellow

- 1. (a) and (b)
 - 2. (b) and (c)
 - 3. Only (b)
 - 4. Except (b)
-

29) Multinucleate protistan

- 1. *Euglena*
 - 2. *Albugo*
 - 3. Mycoplasma
 - 4. Actinomycete
-

30) DNA melting refers to:

- 1. Disrupting the covalent bonds between complementary sequences
 - 2. Breaking the hydrogen bonds between complementary DNA strands
 - 3. Making the DNA crystals into liquid form
 - 4. Cutting DNA strands into smaller fragments
-

31) Which of the following is not related to Law of Segregation?

- 1. Factors affect the development of a character
 - 2. Hereditary elements are carried in pairs
 - 3. In F1 generation only one character is expressed
 - 4. Factors do not mix in a hybrid
-

32) A mutant plant did not develop stomata. Which of the following is affected mostly?

- 1. Transpiration
 - 2. Photosynthesis
 - 3. Respiration
 - 4. Mineral Nutrition
-

33) Lysozyme is:

- 1. An enzyme produced by viruses
 - 2. An enzyme that breaks peptide bond
 - 3. An endonuclease that cuts DNA
 - 4. A bacterial enzyme that denatures cell walls
-

34) *Marchantia* is exemplified by:

- 1. Sexual dimorphism
 - 2. Heterosporous
 - 3. Independent sporophyte
 - 4. Stalk less sex organs
-

35) If Karyokinesis is not followed by Cytokinesis, in mitosis, it results in:

1. Single cell with many nuclei
 2. Single cell with no nucleus
 3. Nucleus with double the number of chromosomes
 4. Nucleus without any chromosomes
-

36) Female gametophyte develops from Megaspore Mother Cell after:

1. Meiotic division followed by mitotic divisions
 2. Meiotic division
 3. Many mitotic divisions
 4. Mitotic divisions followed by meiotic division
-

37) Which one of the following statement is correct?

1. In geitonogamy, flowers are invariably unisexual
 2. Xenogamy involves transfer of pollen from male flower to female flower
 3. In cleistogamous flowers both stamens and pistil mature at the same time
 4. Autogamous flowers are generally not attractive to insects
-

38) The paddy variety nicknamed as "miracle rice"?

1. Golden Rice
 2. IR8
 3. Jaya
 4. Ratna
-

39) From how many flowers from the following list, fruits develop from inferior ovaries?

Paddy, Coconut, Fig, Apple, Cucurbita, Citrus, Datura, Mustard, Sunflower, Guava, Acacia

1. Two
 2. Three
 3. Five
 4. Four
-

40) "Resurrection plant" belongs to:

1. Bryophytes
 2. Gymnosperms
 3. Pteridophytes
 4. Angiosperms
-

41) Correct statement from the following?

- a) *Rhizobium* is a free living soil bacterium
- b) *Rhizobium* gets its nitrogen requirements from the soil
- c) All leguminous plants associate symbiotically with *Rhizobium*
- d) Leguminous plants cannot absorb nitrates from the soil

1. (a) and (b)
 2. (b) and (c)
 3. (c) and (d)
 4. (d) and (a)
-

42) Which of the following set of plants show modification in the similar organ?

1. *Cuscuta*, *Rafflesia*, *Taeniophyllum*
2. *Acacia*, *Opuntia*, *Casuarina*

3. Pea, Gulmohar, Bean
4. *Curcuma*, *Nepenthes*, Carrot

43) Root pressure is observed:

1. Only during day time
2. When absorption exceeds transpiration
3. When ionic concentration is more in xylem
4. When water column breaks in xylem

44) A teak plant grown in the garden with regular watering..

1. Does not develop characteristic growth rings÷
2. Main axis grows straight with less lateral branching.
3. Develops only tracheids but not vessels.
4. Vascular cambium cuts off more phloem than xylem.

45) What will be the response of an herbaceous plant exposed to an atmosphere of low oxygen levels during day time?

1. Stomata close
2. Increase in Glycolysis
3. No significant change in respiration
4. Increase in rate of photosynthesis

46) Which of the following are true about Leydig cells in human beings?

1. Present in interstitial spaces around seminiferous tubules - Secrete testosterone
2. Located in germinal epithelium of seminiferous tubules - Secrete inhibin
3. Present in granulosa cells of antral follicle - Secrete estrogens
4. Located in graffian follicle - Secrete progesterone

47) Various parts of Nephron and its associated regions present in human kidney are given below. Except one of them, remaining involve in the maintenance of pH and ionic balance of the body fluids. Identify that part without such function.

1. Distal convoluted tubule
2. Collecting duct
3. Henle's loop
4. Proximal convoluted tubule

48) Which of the following characteristic features always holds true for the corresponding group of animals?

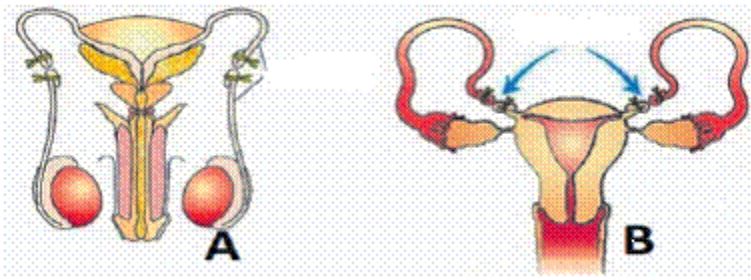
Characteristic features	Animal Group
1) Two chambered heart, operculum, air bladder	Pisces
2) Three chambered heart, cloaca, two pairs of limbs	Amphibia
3) Mammary glands, viviparous, two pairs of limbs	Mammalia
4) Homeotherms, oviparous, four chambered heart	Aves

2. 2
3. 3
4. 4

49) The amount of nutrients like C, N, P, Ca etc., present in the soil at any given time is considered as:

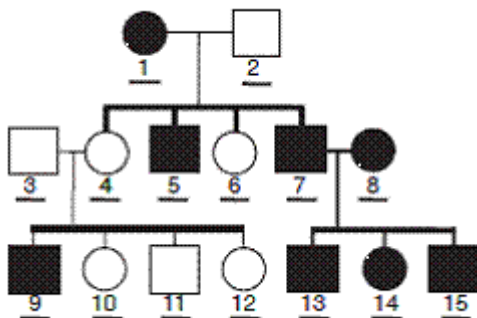
1. NPP
2. Standing crop
3. GPP
4. Standing state

50) Sterilization techniques in the contraceptive methods are given below with symbols 'A' and 'B'. Select the correct options related to them.



1. A - Both seminal fluid and spermatozoa will not be formed
B- Spermatozoa cannot reach the site of fertilization
2. A- Spermatozoa can be formed but cannot reach the urethra
B - Ova cannot be formed; sperms cannot enter the vagina
3. A - Spermatozoa can be formed; spermatozoa can reach seminal vesicle
B - Ova can be formed; but fallopian tube cannot collect them
4. A - Spermatozoa can be formed; but they cannot reach seminal vesicle
B - Ovulation occurs; but ova cannot reach the site of fertilization

51) In the following human pedigree, the filled symbols represent the affected individuals. Identify the type of given pedigree.



1. X - linked dominant
2. Autosomal dominant
3. X - linked recessive
4. Y - linked feature

52) Identify the correct combination of various animals, their features and taxa to which they belong.

Animals	Features	Taxon
1) Pleurobrachia	i) Digestion occurs intracellular method only ii) Comb plates	Ctenophora
2) Nereis	i) Parapodia ii) Malpighian tubules	Annelida
3) Taenia	i) Flame cells for osmoregulation and digestion ii) Acoelomate nature	Platyhelminthes
4) Balanoglossus	i) Open type of circulatory system ii) Proboscis gland for excretion	Hemichordata

1. 1
2. 2
3. 3
4. 4

53) AIDS is caused by HIV. Which among the following is not a mode of transmission of HIV?

1. Sexual contact with infected persons
2. Shaking hands with infected persons
3. Sharing the infected needles
4. Transfusion of infected blood

54) Which of the following statements regarding the contraceptive methods are correct?
(a) In the Lactational Amenorrhea method, ovulation generally will not occur during the period of intense lactation by the mother after parturition.

(b) Active prolactin secretion during lactation suppresses the release of GnRH from hypothalamus and thus reduces the levels of FSH and LH from the pituitary gland.

1. Both (a) and (b) are false
2. (a) is true but (b) is false
3. Both (a) and (b) are true
4. (b) is true but (a) is false

55) Arrange the following events in correct sequence of their occurrence.

- (I) Increase in blood pressure
- (II) Releasing of Renin by JG cells
- (III) Releasing of Aldosterone
- (IV) Conversion of Angiotensinogen into Angiotensin II
- (V) Fall in GFR

1. V - IV - II - I - III
2. I - II - III - IV - V
3. V - III - II - IV - I
4. V - II - IV - III - I

56) If due to some injury the atrio-ventricular node (Av node) in human heart becomes non - functional. Assume the effect of it

1. Only ventricles can contract rhythmically

2. Ventricles cannot receive blood from atria
3. Ventricles can receive blood from atria but they cannot send it to aorta/main arteries
4. No impact on cardiac cycle

57) Which of the following about muscle fibers is correctly matched?

1. 'H' zone in Sarcomere - With both thin and thick filaments
2. White muscle fibers - With high amount of sarcoplasmic reticulum and plenty of sarcosomes
3. Sarcomere - Portion of myofilament between two successive 'Z' lines
4. 'Z' line - An elastic fiber which bisects 'A' band

58) Metagenesis is related to:

1. Metameric segmentation in animals
2. Alternation of generation between asexual and sexual phases of an organism
3. Existence of different morphic forms
4. Appearance of different changes during post-embryonic development

59) Identify the incorrect match.

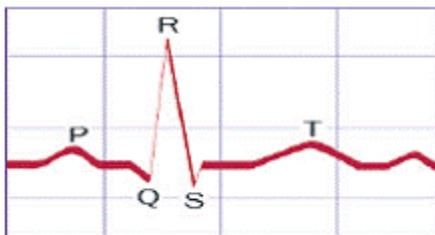
S.No.	Contraceptive device	Type	Mode of action
1)	Condom	Barrier	Prevents the meeting of sperm and ovum
2)	Multiload 375	IUD	Suppress the fertilizing capacity of sperms
3)	Saheli	Oral steroidal contraceptive pill	Inhibits ovulation and implantation
4)	LNG 20	IUD	Phagocytosis of sperms and release of hormones

1. 1
2. 2
3. 3
4. 4

60) Select the incorrect combination of pollution control measures and their actions.

1. Incinerators - Burn hospital wastes
2. Catalytic converters - Convert Carbon dioxide into Carbon monoxide
3. Electrostatic precipitators - Remove particulate matter
4. Scrubber - Removes gases like Sulphur dioxide

61) Diagrammatic representation of a standard ECG is given below. Select the correct option



1. P - wave: Repolarisation of the atria.
2. T - wave: Depolarisation of ventricles.
3. QRS complex: Depolarization of ventricles
4. R - wave: Repolarization of ventricles

62) Which of the following two statements regarding the retina is correct?

(a) Fovea is the point of retina with the greatest visual activity (resolution)
(b) Fovea consists of densely packed cones only.

1. (a) is correct but (b) is false
 2. (b) is correct but (a) is false
 3. Both (a) and (b) are true
 4. Both (a) and (b) are false
-

63) Which one of the following statements is totally wrong about the occurrence of notochord while the other three are correct?

1. It is persistent throughout the life in Amphioxus
 2. It is absent throughout the life in mammals from the very beginning including the embryonic stage.
 3. It is present in larval tail only in ascidians.
 4. It is replaced by vertebral column in adult frogs.
-

64) The foetal ejection reflex in female human being stimulates the release of:

1. Human Placental Lactogen (HPL) from placenta
 2. Oxytocin from foetal pituitary
 3. human Chorionic Gonadotropin (hCG) from placenta
 4. Oxytocin from maternal pituitary
-

65) In the developmental history of mammalian heart, it is observed that it passes through a two chambered fish-like heart, three chambered frog-like heart and finally four-chambered stage. In which hypothesis can the above cited statement be approximated?

1. Mendelian principle
 2. Lamarck's principle
 3. Biogenetic law
 4. Germplasm theory
-

66) Identify the type of PEM which occurs in the infants less than a year in age if mother's milk is replaced too early by other foods which are poor in both protein and caloric values?

1. Rickets
 2. Cretinism
 3. Kwashiorkor
 4. Marasmus
-

67) Match the following in which recently extinct animals are given in Column - I and to which country they belong is given in Column - II:

Recent extinct animals Belong to the country

- | | |
|----------------------|----------------|
| a) Thylacine | i) Russia |
| b) Stellar's sea cow | ii) Mauritius |
| c) Quagga | iii) Australia |
| d) Dodo | iv) Africa |

1. a - ii ; b - iii ; c- iv ; d - i
2. a - iii ; b - i ; c- iv ; d - ii
3. a - iii ; b - ii ; c- iv ; d - i
4. a - iv ; b - i ; c- ii ; d - iii

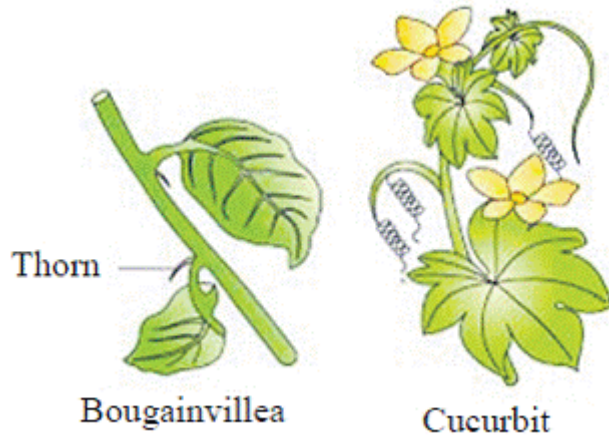
68) Which of the following group is characterized by the animals with worm like body, exclusively marine, open circulatory system, gill respiration and proboscis gland for excretion?

1. Echinodermata
2. Mollusca
3. Hemichordata
4. Ctenophora

69) By observing which of the following features we can identify the sex of them?

1. Female cockroach - Presence of anal styles
2. Female Ascaris - Curved posterior end
3. Male shark - Pelvic fins with claspers
4. Male cockroach - Anal cerci

70) Study the following diagrams and select the correct option related to it:



1. Analogous organs
2. Atavistic organs
3. Homologous organs
4. Vestigial organs

71) Select the correct combination of conditions/disorders of the following which are resulted due to pleiotropism.

1. Cystic fibrosis and hemophilia
2. Sickle cell anemia and Turner's syndrome
3. Phenylketonuria and sickle cell anemia
4. Klinefelter syndrome and Turner's syndrome

72) Which one of the following combinations is correct?

1. Adipose tissue - Dense connective tissue - Specialized to store fats
2. Areolar tissue - loose connective tissue - Beneath the skin
3. Tendon - Dense irregular tissue - Skeletal muscle with bone
4. Ligament - Dense regular tissue - In skin

73) What is the National Heritage animal of India?

1. Tiger
2. Crocodile

3. Indian Elephant
 4. King cobra
-

74) Which one of the following is the correct matching of the events that occur during menstrual cycle?

1. Follicular phase: Degeneration of endometrium of uterus and formation of Graffian follicle.
 2. Secretory phase: Development of corpus luteum and secretion of large amount of progesterone
 3. Ovulation phase: LH and FSH attain minimum levels and sharp increase of estrogen
 4. Menstruation phase: Breakdown of myometrium and releasing of fertilised ovum
-

75) In human beings, which blood vessel would normally carry largest amount of nutrients?

1. Hepatic veins
 2. Post caval vein
 3. Hepatic portal vein
 4. Left systemic arch
-

76) Select the condition that occurs/leads to normal inspiration among the human beings:

1. Intra pulmonary pressure < Atmospheric pressure
 2. Atmospheric pressure = Intra pulmonary pressure
 3. Atmospheric pressure < Intra pulmonary pressure
 4. pO₂ in atmosphere < pO₂ in lungs
-

77) Which of them are categorized as the methods in in-situ conservation method of biodiversity?

- a) Sacred groves
 - b) Cryopreservation
 - c) Biosphere reserve
 - d) National parks
 - e) Sanctuaries
 - f) Zoological parks
1. a, c, e, f
 2. b, c, d, e
 3. a, b, d, e, f
 4. a, c, d, e
-

78) Pick out the reason why 8th, 9th and 10th pairs of ribs in human beings are considered as "vertebro-chondral ribs"

1. They attach dorsally with thoracic vertebrae and with sternum ventrally with hyaline cartilage
 2. They attach ventrally with 7th pair of ribs with hyaline cartilage
 3. They are free ventrally
 4. They are free dorsally
-

79) Match the following conditions/disorders given in column - I with the reasons mentioned in column - II and choose the correct option.

Column - I

- (a) Acromegaly
- (b) Grave's disease
- (c) Addison's disease
- (d) Diabetes mellitus
- (e) Diabetes insipidus

Column - II

- (i) Hypo secretion of ADH
- (ii) Hypo secretion of insulin
- (iii) Hyper secretion of Growth hormone
- (iv) Hypo secretion of gluco corticoids
- (v) Hyperthyroidism

1. (a) - (iii); (b) - (ii) ; (c) - (iv) ; (d) - (i) ; (e) - (v)
2. (a) - (iii) ; (b) - (v) ; (c) - (iv) ; (d) - (ii) ; (e) - (i)
3. (a) - (iv) ; (b) - (iii) ; (c) - (ii) ; (d) - (v) ; (e) - (i)
4. (a) - (ii) ; (b) - (v) ; (c) - (i) ; (d) - (iv) ; (e) - (iii)

80) Identify the incorrect combination about various acts and their established years in India.

1. AIR Act - 1981
2. Water Act - 1974
3. Joint Forest Management - 1980s
4. Wild Life Protection Act – 1987

81) Identify the correct combination regarding the disease which is characterized by the turning of lips and finger nails into gray to bluish in color in severe cases.

1. Pneumonia - Microsporium
2. Ringworms - Trichophyton
3. Typhoid - Salmonella typhi
4. Pneumonia - Haemophilus influenza

82) Which of the following pairs of hormones are not antagonistic to each other?

1. Gastrin - Enterogastrone
2. Thyrocalcitonin - Parathyroid hormone
3. Aldosterone - Atrial natriuretic factors
4. Adrenalin - Nor adrenalin

83) Which part of female cockroach receives spermatophores from male cockroach during copulation?

1. Seminal vesicles
2. Spermathecae
3. Collateral glands
4. Oothecal chamber

84) Observations of Mac Arthur about five closely related species of warblers living on the tree state that:

1. Competition for the same resources excludes species having different food preferences
2. Larger organisms exclude smaller ones through competition
3. Warblers show co-existence by following resource partitioning to avoid competition
4. More abundant species will exclude the less abundant species through competition

85) Which of the following human ancestor had largest brain capacity?

1. Dryopithecus
 2. Homo habilis
 3. Homo erectus
 4. Neanderthal man
-

86) Match the following of the contents given in the Column - I and Column - II:
Column - I

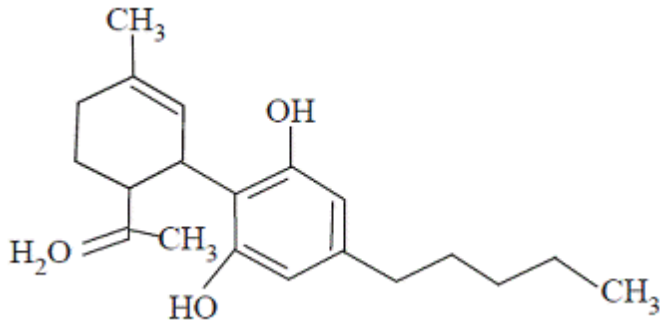
- i) α - Amylase
- ii) α - Interferons
- iii) α - Lactalbumin
- iv) α - 1 Antitrypsin

Column - II

- a) Dominant protein in human milk
- b) Ptyalin in saliva to digest straches
- c) Treatment for Emphysema
- d) Biological response modifiers

1. i - b ii - d iii - a iv - c
 2. i - b ii - c iii - d iv - c
 3. i - d ii - b iii - c iv - a
 4. i - c ii - d iii - a iv - b
-

87) Diagrammatic representation of certain drug is given below. Select the correct option about it.

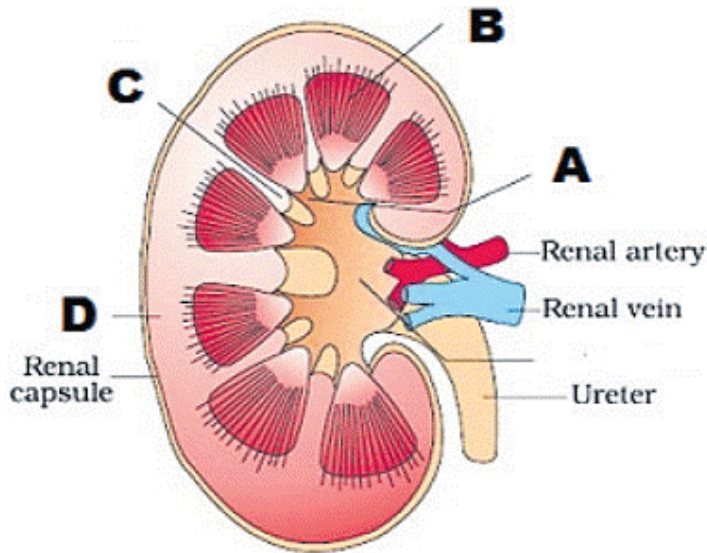


1. Morphine - Derived from Papaver somniferum - Cause Hallucinations
 2. Cannabinoid - Derived from Cannabis sativa - Effects on Cardiovascular system
 3. Cocaine - Derived from Erythroxylum coca - Causes Euphoria
 4. Hallucinogen - Derived from Atropa Belladonna -- Causes Euphoria
-

88) Diagnostic report of a person revealed the fact that he is suffering with the deficiency of Vitamin B12. Based on that result assume which of the following cells in his alimentary canal are not working properly /damaged?

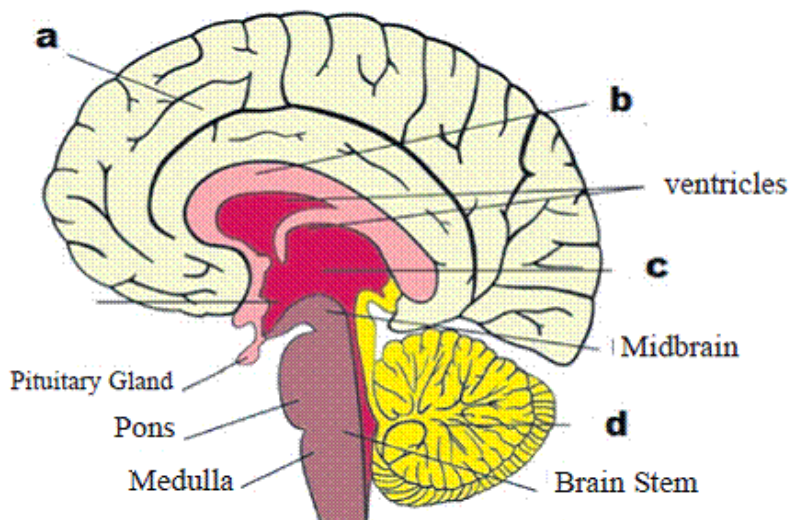
1. Peptic cells
 2. Brunner's gland cells
 3. Oxyntic cells
 4. Neck cells
-

89) Figure shows the longitudinal section of human kidney with structures labeled A to D. Select option which correctly identifies them and gives their characteristics and/or functions.



1. C - Columns of Bertini - Extensions of cortex in between the medullary pyramids
2. D - Pelvis - Gives ureter to carry urine from kidney
3. B - Cortex - Forms renal pyramids
4. A - Renal columns - From which pelvis begins

90) A sagittal section of human brain is shown here. Identify the labeled parts of a, b, c, d.



1. a - Cerebellum ; b - Corpus callosum
2. b - Arbor vitae ; d - Cerebellum
3. a - Cerebrum ; c - Thalamus
4. b - Corpus callosum ; d - Cerebrum

Biology

1) 2 2) 4 3) 1 4) 4 5) 4 6) 3 7) 2 8) 3 9) 4 10) 1 11) 2 12) 2
13) 4 14) 3 15) 4 16) 3 17) 4 18) 3 19) 4 20) 4 21) 4 22) 1 23) 4 24) 3
25) 2 26) 3 27) 2 28) 2 29) 3 30) 2 31) 3 32) 1 33) 2 34) 1 35) 1 36) 1
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