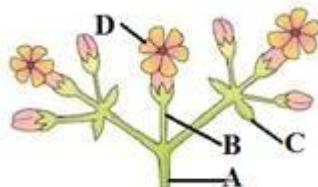


NEET-2020 Model Paper-4

Biology

1) **Correct** statement regarding the inflorescence shown here



1. It is a raceme
2. 'A' is pedicel 'B' is peduncle
3. 'A' is peduncle 'D' oldest flower
4. 'C' is involucre

2) Which of the following is referred as clones

1. Genotypically and phenotypically similar organism
2. Offsprings of a single individual
3. Genetically identical offsprings of a parent
4. Rhizomes, corms, offsets, suckers etc

3) Penicillin first found to be acting against

1. *Mycobacterium*
2. *Staphylococci*
3. *Vibrio*
4. *Streptococcus*

4) Which amino acids are coded by only one codon

1. Methionine, Valine
2. Methionine, Tryptophan
3. Cysteine, Methionine
4. Arginine, Glutamine

5) Roundup ready soybean is

1. Herbicide tolerant soybean
2. Soybean variety with round seeds
3. Soybean with reduced maturing time
4. Soy bean with high protein

6) Which of the following statement is **correct**

1. Criteria of essentiality of a mineral can be easily established
 2. All the minerals present in a plant cell are essential
 3. All cells in a plant have similar kind of minerals
 4. Mineral content of a cell changes in a day
-

7) Which disease can be cured by antibiotic

1. Whooping cough
 2. Polio
 3. Sars
 4. HIV
-

8) Which of the following is a vegetative or asexual method of reproduction in higher plants

1. Budding
 2. Seeds
 3. Offset
 4. Binary fission
-

9) Activated sludge is

1. Cleaned sewage water
 2. Sediment with aerobic bacteria and fungi
 3. Sewage added with aerobic bacteria
 4. Mud used as inoculums in sewage treatment.
-

10) In respiration, pyruvic acid is

1. Formed only when the cell is with mitochondria
 2. Formed only when oxygen is available
 3. Formed only when cell is performing aerobic respiration
 4. Commonly formed as intermediate product of aerobic and anaerobic respiration
-

11) **Correct** statement from the following

1. Sporophyte in Bryophytes is not independent
 2. Gametophyte in Pteridophytes mostly autotrophic and independent
 3. Sporophyte is independent and gametophyte is dependent in Gymnosperms
 4. All the above
-

12) The interaction between biotic and abiotic components is a subject of

1. Ecology
 2. Ecosystem
 3. Ecosphere
 4. Community
-

13) A piece of a stem of length one feet is cutout from the plant and planted invertedly (upside down) in the soil.

1. Roots develop inside the soil)
 2. Roots develop at the tip of aerial parts.
 3. Roots develop inside the soil and grow upwards.
 4. Roots develop on the aerial parts and grow phototropically.
-

14) Which of the following statements is not true for Mendel's monohybrid cross

1. Heredity elements are carried in pairs
 2. During gamete formation, each gamete carries only one element
 3. Factors blend in F1 generation so that one factor is expressed
 4. Factors assorted into two groups in F2 generation.
-

15) Pistillode is

1. Sterile gynoecium
 2. Female flower
 3. Single pistil
 4. Single carpel in a multicarpellary ovary
-

16) The correct sequence during transcription, of structural genes of *lac operon*

1. *a b c*
 2. *y z a*
 3. *x y z*
 4. *z y a*
-

17) Location of PS II in the membranes of thylakoids

1. Towards stroma side
 2. All over the membrane
 3. In the stroma lamella
 4. In the grana towards lumen side
-

18) Genotype with maximum number of individuals in a dihybrid cross

1. AaBb
 2. AABb
 3. AaBB
 4. aaBb
-

19) The most important factor for the development of a plant community in a location is

1. Water
 2. Soil
 3. Wind
 4. Pollinators
-

20) Reed-swamp stage in pond ecosystem is

1. Followed by Phytoplankton stage
 2. Preceded by submerged free floating stage
 3. Followed by submerged plant stage
 4. Preceded by Marsh-meadow stage
-

21) The primary basis for the classification of inflorescence

1. Number of flowers
 2. Growth of the peduncle
 3. Apical bud modification
 4. Anthesis
-

22) According to the norms of ICBN with reference to nomenclature which of the following names of the plants is **correct**

1. *Hibiscus rosa sinensis*(L)
 2. *Albizialebbek* (L) Benth
 3. *CajanusCajan* (L) Millsp
 4. *Solanum tuberosum*(L)
-

23) Which of the following is a must for the dried specimen for angiosperm herbarium sheet

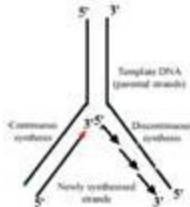
1. Roots

2. Stem a & leaves
3. Twig with a flower
4. Flower

- 24) Read the following statements and choose the **correct** option
- (a) One of the criteria for reproducing abilities of organisms is its habitat
(b) In angiosperms single parents involve only in asexual reproduction
1. (a) is correct (b) is incorrect
 2. Both (a) and (b) are incorrect
 3. Both (a) and (b) are correct
 4. (a) is incorrect (b) correct

- 25) Photosynthetic stems are called
1. Phyllodes
 2. Phylloclades
 3. Succulent stems
 4. Chloroclade

- 26) **Wrong** statement with reference to the activity shown in the diagram



1. It is a replication fork of DNA during 'S' phase)
2. One primer is enough for the elongation of entire leading strand.
3. Many different primers are needed for elongation of lagging strand.
4. Starting of elongation requires AUG sequence

- 27) Most abundant element present in the plant
1. Nitrogen
 2. Iron
 3. Calcium
 4. Carbonx

- 28) Antibiotic resistant genes in the plasmids are useful in genetic engineering in
1. Screening for recombinants
 2. Producing antibiotic resistants
 3. Developing antibiotic resistant organisms
 4. Specific insertion of foreign DNA

- 29) Purity of gametes is
1. Separation of factors from each other
 2. Gametes with only one copy of the factors
 3. Factors do not blend with allelic factor
 4. Gametes do not get contaminated when mixed in a hybrid from generation to generation

- 30) Pasteur's effect relating to respiration is
1. Decrease in the rate of respiration at high temperatures.

2. Increase in the rate of anaerobic respiration at low availability of oxygen.
 3. Increase in the rate of aerobic respiration of microorganisms at high oxygen levels.
 4. Destruction of microorganisms in the absence of oxygen.
-

31) Use of contour farming is

1. Soil erosion can be stopped
 2. Increasing soil microflora
 3. Encouraging pollinators
 4. A minimum guarantee of crop yield
-

32) Match the following

List-I

- A) *Typha*
- B) *Utricularia*
- C) *Nymphaea*
- D) *Salvinia*

List-II

- I) Submerged suspended hydrophyte
- II) Submerged rooted hydrophyte
- III) Free floating hydrophyte
- IV) Rooted hydrophyte with floating leaves.
- V) Amphibious plant.

- | | A | B | C | D |
|----|----|-----|----|-----|
| 1. | V | I | II | III |
| 2. | V | I | IV | III |
| 3. | II | III | V | I |
| 4. | IV | II | I | III |
-

33) Find the **incorrect** statement from the following

1. Thalamus is edible in apple
 2. Banana is a false fruit
 3. Straw berry fruit is an aggregate of achenes
 4. Caryopsis is a dry indehiscent fruit
-

34) Which of the following is absent in a nucleotide

1. Ester bond
 2. Glycosidic bond
 3. Hydrogen bond
 4. Both 1 & 3
-

35) Sugars move from source to sink. The correct sequence of changes at source

- (a) Hypertonic condition in the phloem
 - (b) High osmotic pressure in the phloem
 - (c) Movement of water into the phloem
1. (a) (c) (b)
 2. (a) (b) (c)
 3. (b) (c) (a)
 4. (c) (a) (b)
-

36) Number of steps involved in release of CO₂ during Kreb's cycle is

1. 1
2. 2
3. 6
4. 12

37) Offsprings of an animal show resemblance and differences. Reason for this difference is

1. Segregation of alleles
 2. Linkage
 3. Genetic exchange
 4. Fertilization
-

38) Colour of chlorophyll 'a' is

1. Yellow green
 2. Greenish brown
 3. Greenish blue
 4. Bluish green
-

39) At lower levels of CO₂ concentration, the increase in light intensity does not increase rate of photosynthesis. This shows

1. Photosynthesis is light saturated.
 2. Light has become limiting factor.
 3. Both CO₂ and light have become limiting factors.
 4. Increase in CO₂ concentration does not increase rate of photosynthesis.
-

40) Gametes in *Spirogyra*

1. Isogametes, motile
 2. Heterogametes, non-motile
 3. Homogametes, non-motile
 4. Heterogametes, male is motile
-

41) With reference to the statements given below identify the correct option

- (a) Shift from grain to meat diet creates demand for cereals.
(b) Shift from meat to grain diet decreases the demand for cereals
1. (a) is correct (b) is incorrect
 2. Both (a) and (b) are correct
 3. Both (a) and (b) are incorrect
 4. (a) is incorrect (b) is incorrect
-

42) Common feature in all tRNAs

1. Sequence of nucleotides at 3' end
 2. Sequence of nucleotides in anticodon loop
 3. Presence of extra arm
 4. Length of RNA
-

43) Proximal to which region in the root tip do the cells undergo rapid elongation

1. Region of meristematic activity
 2. Root cap
 3. Region of elongation
 4. Region of root hair
-

44) Yeast is

1. Haploid
2. Diploid
3. Dikaryotic
4. Monoploid

45) In agriculture and horticulture bigger is not always better. Gibberellin increases the length of the internodes. Inhibition of Gibberellin is useful in

1. Cabbage crop
2. Sugarcane field
3. Grape vines
4. Apple orchards.

46) The chronological order of human evolution from early to the recent is:

1. *Rama pithecus* – *Australopithecus* – *Homo habilis* – *Homo erectus*
2. *Australopithecus* – *Homo habilis* – *Rama pithecus* – *Homo erectus*
3. *Australo pithecus* – *Rama pithecus* – *Homo habilis* – *Homo erectus*
4. *Rama pithecus* – *Homo habilis* – *Rama pithecus* – *Homo erectus*

47) Human body compensates the low oxygen availability at high altitude by:

- (I) increasing size of erythrocytes
- (II) decreasing binding affinity of haemoglobin
- (III) decreasing breathing rate
- (IV) increasing the number of erythrocytes
- (V) increasing breathing rate

Choose the correct option :

1. II, IV and V
2. I, III and IV
3. I, IV and V
4. II, III and IV

48) Osteoporosis, an age related disease of skeletal system, may occur due to:

1. high concentration of calcium and sodium ions
2. accumulation of uric acid that causes inflammation of joints
3. immune disorder affecting neuromuscular junction that causes fatigue
4. decreased level of estrogen

49) Correct match of the following related to diagnosis of cancer:

Column – I	Column – II
A)MRI	(i)a piece of suspected tissue cut into thin sections, stained and examined under microscope
B)computed tomography	(ii)uses strong magnetic fields and non-ionizing radiations to accurately detect changes in living tissue
C)Biopsy	(iii)detection of leukemia
D)Blood or bone marrow test	(iv)uses X – rays to generate a three – dimensional image of the internals of an object

Options:

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

50) Study the following and select the correct option:-

Concept	Nature	Exemplified by
(A) Polygenic inheritance	Single feature controlled by many genes	Skin color in human beings
(B) Pleiotropism	Single gene expresses more than one feature	Gene for white eye in fruit fly, <i>Drosophila</i>
(C) Mosaicism	Cells in same person with different genetic make up	Down syndrome
(D) Multiple allelism	Existence of many alleles for one gene	ABO blood groups in human beings

Options:

1. A and D are not correct
2. B and D are not correct
3. C and D are not correct
4. A, B, C and D are correct

51) The wings of a bird and the wings of an insect are:-

1. homologous structures and represent divergent evolution
2. phylogenetic structures and represent divergent evolution
3. analogous structures and represent convergent evolution
4. homologous structures and represent convergent evolution

52) A couple claimed in court that a child belonged to them. Their claim can be true if the DNA Fingerprint pattern of the child shows.

1. 100% similarity to both the parents DNA fingerprint as both contribute equally to zygote formation
2. 100% similarity to mother's DNA print because of maternal inheritance.
3. 100% similarity to father's DNA print due to large number of mitochondria in sperm
4. 50% bands similar to father and 50% similar to mother DNA fingerprint pattern

53) To protect and improve the quality of environment, the Government of India passed the Environment (Protection) Act in the year:

1. 1968
2. 1953
3. 1923
4. 1986

54) Which of the following is considered to distinguish the sex of the individual in different animals?

1. female cockroach – presence of anal cerci
2. female *Ascaris* – sharply curved posterior end
3. male frog – a copulatory pad on the first digit of the hind limb
4. male shark – pelvic fins bear claspers

55) Study the following and select the incorrect combination:-

1. Down's syndrome : trisomy of 21st chromosome
2. Phenyl ketonuria : lack of gene for Phenylalanine hydroxylase on 12th chromosome.
3. Alpha - thalassemia : linked genes HBA 1 and HBA 2 on 11th chromosome
4. Sickle cell anemia : Hb^A and Hb^S alleles on 11th chromosome.

56) Select the correct option with suitable match between column – I and column – II :-

	Column – I		Column – II
(A)	Angina pectoris	(I)	Sudden damage to heart muscle due to inadequate blood supply
(B)	Heart failure	(II)	Deposit of cholesterol, calcium and fat which makes of lumen of arteries narrower
(C)	Heart attack	(III)	Acute chest pain
(D)	Atherosclerosis	(IV)	State of the heart in which it is not pumped blood effectively enough to meet the needs of the body

1. A – IV ; B – III ; C – II ; A – I
2. A – III ; B – IV ; C – II ; D – I
3. A – II ; B – IV ; C – I ; D – II
4. A – III ; B – IV ; C – I ; D – II

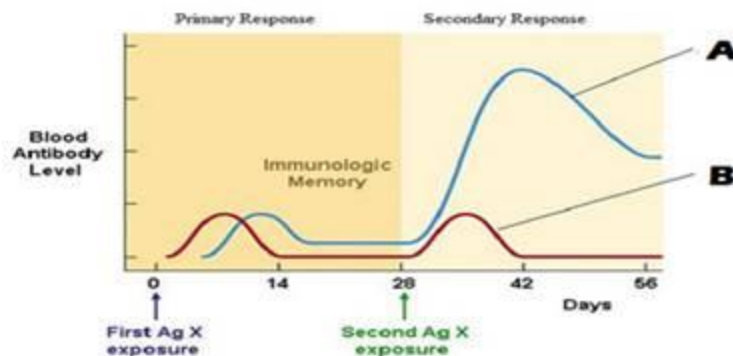
57) Metagenesis is related to:

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

58) Capacitation refers to changes in the:

1. ovum after fertilization
2. sperm after fertilization
3. sperm before fertilization
4. ovum before fertilization

59) Select the correct option regarding the symbols 'A' and 'B' given in the following diagram related to types of immune responses and secretion of antibodies :



Options:

1. A = Ig A ; B = Ig G
2. A = Ig G ; B = Ig M
3. A = Ig D ; B = Ig E
4. A = Ig M ; B = Ig G

60) In which of the following the genus name, its two characters and its taxon are correctly matched

	Genus name	characteristics	Taxon
A	<i>Pleurobrachia</i>	Comb plates, Reproduction occurs by asexually only	Ctenophora
B	<i>Nereis</i>	Parapodia, bisexual nature	Annelida
C	<i>Balanoglossus</i>	Open circulation, proboscis gland for excretion	Hemichordata
D	<i>Taenia</i>	Flame cells for excretion, pseudocoelom	Aschelminthes

1. A
2. B
3. C
4. D

61) Very small animals are rarely found in the Polar Regions because

1. Low O₂ levels at Polar Regions may not support high metabolic rate in smaller homeotherms
2. In small animals, thermoregulatory mechanisms are poorly developed
3. They have a larger surface area relative to their volume so heat loss is more than the heat Production in them
4. The climate is unpredictable in polar regions

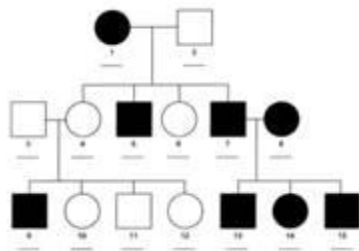
62) Select the incorrect combination is:

1. *Planaria* : high power of regenerative capacity
2. *Nereis* : parapodia
3. Metagenesis : *Obelia*
4. Radula : *Asterias*

63) Which of the following proteins are considered as 'regulatory proteins' as they involve in masking and unmasking of active sites on thin filaments of skeletal muscle?

1. troponin and tropomyosin
2. actin and myosin
3. troponin and myosin
4. tropomyosin and actin

64) 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

65) The increase in concentration of the toxicant at successive trophic levels is referred to as:-

1. eutrophication
2. biotransformation
3. biomediation
4. biomagnifications

66) Select the correct match of the following combinations in which type of ART is given in column – I and its actual role/condition of the person is given in column – II.

	Column – I	Column – II
A	Gamete intra fallopian transfer (GIFT)	Female without suitable environment for fertilization and further development
B	Artificial Insemination (AI)	Introduction of semen from husband/donor into ovary of female
C	Intra Uterine transfer (IUT)	Transfer of embryo with more than 8 blastomeres into uterus of female
D	Intra Cytoplasmic sperm injection (ICSI)	Direct injection of sperm into fallopian tube of female in in-vivo condition.

1. A
2. B
3. C
4. D

67) Common cold differs from pneumonia in, that

1. Pneumonia could be confirmed by widal test where as the common cold by simple blood test.
2. Pneumonia pathogen infects alveoli where as the common cold affects nose and respiratory passage but not the lungs
3. Pneumonia is a communicable disease whereas the common cold is a nutritional deficiency disease
4. Pneumonia is caused by a virus while the common cold is caused by the bacterium *Haemophilus influenza*

68) Read the following statements and select the correct option:-

(I)the prickly pear Cactus introduced into Australia in early 1920s caused havoc by spreading rapidly into millions of hectares of rangeland.

(II)when certain exotic species are introduced into a geographical area, they become invasive and start spreading fast because the invaded land does not have it natural predators.

Options:

1. Both statements I and II are false
2. Both statements I and II are true
3. Statement I is true but II is false
4. statement I is false but II is true

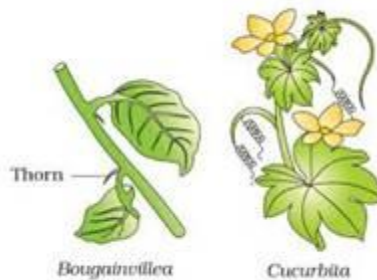
69) Select the condition that occurs/leads to normal inspiration among the human beings:

1. Intra pulmonary pressure < atmospheric pressure
 2. Atmospheric pressure = intra pulmonary pressure.
 3. Atmospheric pressure < intra pulmonary pressure
 4. pO_2 in atmosphere < pO_2 in lungs
-

70) How do parasympathetic neural signals affect the working of the heart in human beings?

1. reduce both heart rate and cardiac output
 2. heart rate decrease but cardiac output increases
 3. heart rate increases without affecting the cardiac output
 4. both heart rate and cardiac output increase
-

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



1. analogous organs
 2. atavistic organs
 3. homologous organs
 4. vestigial organs
-

72) Approximately seventy percent of carbon-dioxide absorbed by the blood will be transported to the lungs :-

1. in the form of dissolved gas molecules in plasma
 2. as bicarbonates
 3. by binding with erythrocytes
 4. as carbamino haemoglobin
-

73) The function of copper ions in copper releasing IUD's is :

1. They inhibit gametogenesis
 2. They make uterus unsuitable for implantation
 3. They inhibit ovulation
 4. They suppress sperm motility and fertilizing capacity of sperms
-

74) Secretions of which of the following secrete ootheca or egg case in female cockroach?

1. spermathecae
2. utriculi majores
3. seminal vesicles
4. collateral glands

75) A normal visioned woman whose father is colorblind, marries a normal visioned man. What are the chances of vision in their offsprings?

- a) all daughters are carriers b) 50 % of sons are colorblind
 c) all sons are with normal vision d) 50% of daughters are carriers
 e) all sons are colorblind

Correct option:

1. b and d
2. a, b and c
3. b, c and e
4. c, d and e

76) Match the following of the contents given in the column – I and column – II:

	Column – I		Column – II
i)	α -amylase	a)	Dominant protein in human milk
ii)	α - interferons	b)	Ptyalin in saliva to digest starches
iii)	α - Lactalbumin	c)	Treatment for Emphysema
iv)	α - 1 Antitrypsin	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

77) Match the following columns and choose the correct combinations from the given codes below.

Column I

Column-II

(Population interaction) (Examples)

- | | |
|-----------------|---|
| A) Mutualism | 1) Orchid, <i>Ophrys</i> and bee |
| B) Commensalism | 2) Epiphyte on a mango branch |
| C) Parasitism | 3) Ticks on dogs |
| D) Competition | 4) <i>Balanus</i> and <i>Chatthamalus</i> |
| E) Predation | 5) Sparrow and tiny seeds |

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

78) Which one of the following groups of animals is correctly matched with its characteristic features without any exception?

1. Pisces -scales, amonotelic nature, two chambered heart, air bladder, operculum
2. Amphibians -tympanum, external fertilization, three chambered heart, two pairs of limbs
3. Mammalia – mammary glands, four chambered heart, hair on skin, viviparous nature
4. Aves – bony endoskeleton, four chambered heart, homoiothermous, pulmonary respiration

79) Select the Incorrect statement in the following:

1. in Interference competition, the feeding efficiency of one species might be reduced due to interfering and inhibitory presence of the other species, even in the presence of abundant resources.
 2. When resources are limited the competitively superior species will eventually eliminate the other species.
 3. in the absence of competitively superior species, the inferior species is found to expand its distributional range dramatically.
 4. Resource partitioning is the main pattern followed by organisms during competitive release.
-

80) Which one of the following statements regarding ribs in human beings is wrong?

1. all the ribs are bicephalic with capitulum and tuberculum.
 2. first 7 pairs of ribs are true ribs as they articulate with vertebral column dorsally and sternum ventrally.
 3. 8th, 9th and 10th pairs of ribs are considered as vertebro – chondral ribs as they articulate with the ventral ends of 7th pair of ribs.
 4. 11th and 12th pairs of ribs are floating ribs as they are free dorsally
-

81) The rate of formation of new organic matter by rabbit in a grassland, is called:

1. Net productivity
 2. Secondary productivity
 3. Net primary productivity
 4. Gross primary productivity
-

82) Which of the following condition can leads to Erythroblastosis foetalis in next child of a female?

1. foetus with Rh +ve blood and mother with Rh –ve blood
 2. foetus with Rh +ve blood and mother with Rh +ve blood
 3. foetus with Rh –ve blood and mother with Rh – ve blood
 4. foetus with Rh –ve blood and mother with Rh + ve blood
-

83) Which of the following is responsible for rejection of grafted kidney in human beings?

1. passive immune response
 2. cell mediated immune response
 3. innate immune response
 4. humoral immune response
-

84) Which of the following is not true?

1. the ascending limb of loop of Henle is impermeable to water
 2. the descending limb of loop of Henle is impermeable to elecgrolytes
 3. proximal convoluted tubule of nephron has brush border with microvilli
 4. distal convoluted tubule of nephron is impermeable to water
-

85) Which of the following cells secrete myelin sheath in neurons?

1. osteoclasts and Schwann cells
2. Schwann cells and astrocytes
3. oligodendrocytes and Schwann cells
4. ependymal cells and microglia

86) In a hypothetical population of 200 individuals having 'r' = 0.4/females/year. What will be the population size in 5 years (with e = 2.72) showing exponential rate of growth?

1. 1980
2. 2012
3. 1480
4. 1180

87) Read the following statements (A – D) about certain mistakes in two of them:-

(I) In human pro – insulin, two polypeptide chains A and C are linked together by disulphide bridges.

(II) In molecular diagnosis, the clone with mutated gene will not appear on the photographic film as the probe will not have complimentary with the mutated gene.

(III) Over 95% of all existing transgenic animals are mice.

(IV) Transgenic monkeys are being used to test the safety of polio vaccines initially and later they use transgenic mice to confirm the safety of batches of such vaccines.

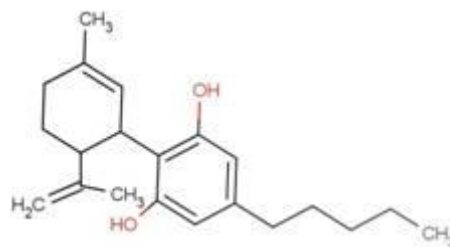
Which of the two statements have mistakes?

1. II and III
2. I and III
3. II and IV
4. I and IV

88) A scrubber in the exhaust of a chemical industrial plant removes

1. gases like ozone and methane
2. particulate matter of the size 7 micrometer or above
3. gases like sulphur dioxide
4. particulate matter of the size 2.5 micrometer or less

89) 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

90) Cryopreservation of gametes of threatened species in viable and fertile condition can be referred to as:

1. In situ conservation by sacred groves
2. In situ cryo - conservation of biodiversity
3. In situ conservation of biodiversity
4. Advanced ex-situ conservation of biodiversity

NEET-4 Answers

Biology

1) 3 2) 3 3) 2 4) 2 5) 1 6) 4 7) 1 8) 3 9) 2 10) 4 11) 4 12) 1
13) 2 14) 3 15) 1 16) 4 17) 4 18) 1 19) 2 20) 2 21) 3 22) 4 23) 3 24) 1
25) 2 26) 4 27) 4 28) 1 29) 3 30) 2 31) 1 32) 2 33) 2 34) 3 35) 1 36) 2
37) 3 38) 4 39) 1 40) 3 41) 1 42) 1 43) 1 44) 2 45) 1 46) 1 47) 1 48) 4
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