NEET-2020 Model Paper-3

Biology

- 1) Some pea plants are with violet flowers and some are with white flowers. A cross between two violet flowered plants resulted in both violet and white flowers. A cross between violet and white flowers resulted in both violet and white flowers. A cross between two white flowers resulted in all white flowers. Wrong deduction from this is
- 1. Violet flowers are heterozygous
- 2. White flowers are homozygous.
- 3. Violet flowers are true breeding
- 4. Selfing of violet flowers results in 1: 2: 1 ratio.
- 2) If the cost of ecological services provided by ecosystem is accounted for, the major contribution is from
- 1. Oxygen production
- 2. Nutrient cycling
- 3. Soil formation
- 4. Assimilation
- 3) A small amount of curd is added to the fresh milk to convert milk into curd. What is the technical word used to refer that small amount of curd
- 1. Additive
- 2. Coagulant
- 3. Inoculum
- 4. Enhancer
- 4) Xylem sap not only constitute with ionic nutrients. It also show considerable amount of organic solutes like amino acids and P or S compounds because of
- 1. Absorption of these substances by roots from the soil
- 2. Insitu formation in xylem elements
- 3. Active transport from phloem during translocation
- 4. N2 fixation in roots by soil microorganisms
- 5) Reserve food materials are stored in
- A) Cytoplasm in prokaryotes
- B) Plastids in green plants
- C) Food vacuoles of Protista
- D) Gas vacuoles in photosynthetic bacteria
- 1. A & B
- 2. B & C
- 3. C & D
- 4. D& A
- 6) A test cross is
- 1. Crossing F1 or F2 with recessive parent
- 2. Progeny with equal phenotypic and genotypic ratio
- 3. Crossing with homozygous recessive plant
- 4. All the above

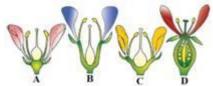
- 7) In a classification system each category or a taxonomic group represents
- (a)A rank in classification
- (b)A group with similar features
- (c)A group indicating evolutionary stage)(d) A convenient aggregation of organisms.

Wrong statements are

- 1. (c) and (d)
- 2. Only (d)
- 3. (a) and (c)
- 4. (b), (c) and (d)
- 8) Plasmids are used as vectors in genetic engineering. The advantageous features for this is
- 1. Its circular form
- 2. Maintenance of introduced DNA
- 3. Easy availability
- 4. High molecular weight
- 9) One codon codes for only one amino acid. This character of the codon is referred as
- 1. Code is a triplet
- 2. Code is universal
- 3. Code is unambiguous
- 4. Code is contiguous
- 10) The community that shows near equilibrium status with the environment is.
- 1. Stable community
- 2. Climax community
- 3. Biome
- 4. Living fossil
- 11) In response to infection plants produce a complex substance called
- 1. Antibodies
- 2. Phytoalexins
- 3. Concanavalin-A
- 4. Phytoferon
- 12) Single membrane structure of the cells
- A) Lysosomes
- B) Peroxysomes
- C) Glyoxysomes
- D) Vacuole
- 1. A & B
- 2. B & C
- 3. C & D
- 4. A, B, C & D
- 13) Which characters of the animals are shared by fungi
- 1. Presence of chitin
- 2. Glycogen and oil as reserve food
- 3. Heterotrophic nutrition

4. All the above

- 14) The anatomy of monocot root is similar to the dicot root in many aspects except in
- 1. Number of vascular bundles
- 2. Elements of xylem
- 3. Elements of phloem
- 4. Endodermis
- 15) Correct statements from the following
- (a) Zoospores are asexual reproductive structures
- (b) Zoospores result always from meiosis
- (c) Zoospores are motile microscopic structures
- (d) Zoospores fuse to form zygote
- 1. (a), (b)
- 2. (b), (c)
- 3. (a), (c)
- 4. (b), (d)
- 16) Removal of hydrogen and CO2 from substrate is called
- 1. Oxidation
- 2. Decarboxylation
- 3. Reductive carboxylation
- 4. Oxidative decarboxylation
- 17) Diad of cells formed after Meiosis-I are
- 1. Diploid
- 2. Diploid with 8C
- 3. Have daughter chromosomes
- 4. Haploid
- 18) Pollen grains in Angiosperms
- I) Show two layered wall
- II) Are two celled at maturity
- III) Have two sets of chromosomes
- IV) Shed at two celled stage in 60% of the plants.
- 1. I, II & IV
- 2. II, III & IV
- 3. I. II & IV
- 4. I & IV
- 19) Identify the correct option regarding the figure



- 1. In A gynoecium is superior, in B flower is perigynous
- 2. In B and C gynoecium is inferior
- 3. In B and D thalamus is cup shaped
- 4. In A, B and C floral parts arise from below the gynoecium

- 20) Monoadelphous stamens are seen in
- 1. . China rose
- 2. Ground nut
- 3. Sun hemp
- 4. All the above
- 21) In a trihybrid cross involving three independently segregating gene pairs (A,B,C) what is the probability of any given gamete getting 'A' from a triple heterozygote?
- 1. 1/2
- 2. 1/9
- 3. 1/27
- 4. 1/6
- 22) Binary fission occurs in
- 1. Monera, Protista
- 2. Protista, Eukaryotes
- 3. Only in Monera
- 4. Some protistans and few eukaryotes
- 23) Which of the following is a **correct** statement
- 1. Pattern of sexual reproduction is similar in all organisms.
- 2. Asexual reproduction is a lengthy process.
- 3. Unfavourable conditions favour vegetative propagation
- 4. Seed is a vegetative propagule.
- 24) In rDNA technology use of polymerase enzyme in
- 1. Gene cloning
- 2. Gene elongation
- 3. In PCR
- 4. Both 1 & 3
- 25) If DNA does not replicate in 'S' phase
- 1. Mitosis occurs but with half the chromosomes
- 2. Mitosis cannot take place
- 3. Cells remain in G2 phase
- 4. Cell enters into G0 phase
- 26) If pollen received by a bisexual flower from another bisexual flower of the same plant it is..
- 1. Autogamy
- 2. Cleistogamy
- 3. Chasmogamy
- 4. Allogamy
- 27) Choose the correct option with reference to statements given below
- (a) The concentration of minerals in the soil is usually lower than the concentration of minerals in the soil.
- (b) Mineral ions absorbed from the soil by both passive and active transport.
- 1. Both (a) and (b) are correct
- 2. Both (a) and (b) are incorrect

- 3. (a) is correct and (b) incorrect
- 4. (a) is incorrect (b) is correct
- 28) Which of the following show two flagella one lying longitudinally and the other transversely
- 1. Gametes of Pheophyceae
- 2. Gametes of Dinoflagellates
- 3. Organisms belong to Dinoflagellates
- 4. Gametes of Bryophytes and Pteridophytes
- 29) Stomatal apparatus constitutes
- 1. Guard cells and subsidiary cells
- 2. Guard cells, subsidiary cells and epidermal cells
- 3. Stomatal opening, guard cells and subsidiary cells
- 4. Epidermal cells, subsidiary cells, trichomes and guard cells
- 30) Organisms that are not classified as microorganisms
- 1. Viruses
- 2. Mycorrhiza
- 3. Filaria parasite
- 4. Malaria parasite
- 31) Not an association between an autotrophic and heterotrophic organisms
- 1. Mycorrhiza
- 2. Lichen
- 3. Root nodules of legumes
- 4. Between Nostoc and Cycas
- 32) Smut diseases are caused by
- 1. Puccinia
- 2. Ustilago
- 3. Albugo
- 4. Claviceps
- 33) Which of the following is **correct** with reference to *Bryophyllum*
- 1. Old and young leaves alike produce adventitious buds
- 2. When leaves are detached buds are produced
- 3. Attached old leaves produce buds
- 4. When leaves touch the soil, then buds arise
- 34) Cork cambium develops from
- 1. Cork
- 2. Vascular cambium
- 3. Cortex
- 4. Epidermis
- 35) Action of the most of the enzymes can be explained by
- 1. Lock and Key mechanism
- 2. Induced fit model
- 3. Relaxed fit model
- 4. Michaelis Menton model

- 36) Not true with reference to albuminous cells
- 1. They originate from sieve cells
- 2. They help in storage
- 3. They are nucleated
- 4. They are phloem elements of only Gymnosperms.
- 37) Xylem and phloem constitutes complex tissues because
- 1. Their function is complex
- 2. Their origin is complex
- 3. They are made up of different cells, every cells function independently
- 4. They are made up of more than one type of cells and they work together as a unit
- 38) Characters true for Selaginella
- (a) Heterosporous
- (b) Heterophyllous
- (c) Presence of vessels
- (d) Stribilous
- 1. (a) and (b)
- 2. (a) and (c)
- 3. (a), (b), (c) and (d)
- 4. (b) and (d)
- 39) Loose tissue like body organization is found in
- 1. Monera
- 2. Protista
- 3. Fungi
- 4. Animalia
- 40) Essential elements are classified as Macronutrients and Micronutrients. The criteria for this classification is
- 1. Size
- 2. Molecular weight
- 3. Availability
- 4. Requirement
- 41) Chargaff's rule is
- 1. A+T = G+C
- 2. A/T = G/C
- 3. A+T/G+C=1
- 4. A+G/T+C=1
- 42) Long day plants are
- 1. Plants that flower only after exposure to long day lengths
- 2. Plants that will be in vegetative state when exposed to shorter day lengths.
- 3. Plants that flower after exposure to light longer than critical time period.
- 4. Plants that are flowered in regions when day length is more than 12 hours.
- 43) Match the column I with column II

Column-I

Column-II

A) Zygotene

I) Pachytene

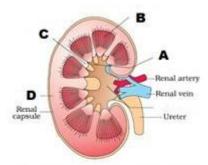
- B) Bivalent
- II) Synapsis
- C) Segregation
- III) Terminalisation
- D) Diakinesis
- IV) Anaphase-I V) Metaphase-I
- 1. A-II, B-I, C-V D-III
- 2. A-III, B-I, C-V, D-II
- 3. A-IV, B-II, C-III, D-I
- 4. A-II, B-I,.C-IV,D-III
- 44) Driving iron nails into the stems of woody plants is a practice
- 1. To protect the plant from fungal infection
- 2. To increase the ability of photosynthesis of the plant
- 3. To alleviate iron deficiency of the plant
- 4. To remove toxins from the plant
- 45) Common feature of the plants pea, gulmohar, bean, cassia
- 1. Zygomorphy
- 2. Vexillay
- 3. All are Fabaceae members
- 4. Superior ovary
- 46) Match the following columns.

COLUMN – I	COLUMN – II
A) Sacred groves	i) threatened species are kept in special area and can be protected
B) Hot spots	ii) multipurpose protected areas which are meant for preserving genetic diversity in ecosystem of various natural biomass and uniQue biological communities
C) Wild life safari parks	iii) trees and wildlife were venerated and given total protection
D) Biosphere reserves	iv) areas with high degree of endemism and accelerated habitat
	loss

- 1. A-I, B-ii, C-iv, D-iii
- 2. A-iii, B-iv, C-I, D-ii
- 3. A-ii, B-I, C-iii, D-iv
- 4. A-iii, B-ii, C-I, D-iv
- 47) The steps in DNA finger printing are given below. Arrange them in the correct seQuence.
- (i) Transfer of separated DNA fragments to nitrocellulose membrane
- (ii) Isolation of DNA
- (iii) Hybridisation using labelled VNTR probe
- (iv) Separation of DNA fragments by electrophoresis
- (v) Detection of hybridized DNA fragments by autoradiography
- (vi) Digestion of DNA by restriction endonucleases
- 1. (i), (iii), (ii), (v), (vi), (iv)
- 2. (ii), (vi), (iv), (i), (iii), (v)
- 3. (iii), (ii), (v), (i), (iv), (vi)
- 4. (iv), (iii), (ii), (v), (i), (vi)

- 48) Which one of the following is the correct matching of the events occurring during menstrual cycle?
- 1. Proliferative phase: Rapid regeneration of myometrium and maturation of Graafian follicle.
- 2. Development of corpus luteum : Secretory phase and increased secretion of progesterone.
- 3. Menstruation: breakdown of myometrium and ovum not fertilised.
- 4. Ovulation: LH and FSH attain peak level and sharp rise in the secretion of progesterone
- 49) Choose the correct matched pair regarding the location and type of epithelium in human body:
- 1. tubular parts of nephron sQuamous epithelium
- 2. lining of stomach and intestine cuboidal epithelium
- 3. inner surface of fallopian tubes ciliated epithelium
- 4. air sacs in lungs columnar epithelium.
- 50) Colour blindness is a sex linked trait. F1 generation consists of all carrier daughters and all affected sons. What would be the possible genotype of parental generation?
- 1. XC XC, X Y
- 2. XC X, XC Y
- 3. X X, XC Y
- 4. XC X, XC Y
- 51) Select the correct chronological order of the evolution of man.
- 1. Rama pithecus → Dryopithecus → Australopithecus → Homo erectus → Homo habilis
- 2. Australopithecus \rightarrow Rama pithecus \rightarrow Dryopithecus \rightarrow Homo erectus \rightarrow Homo habilis
- 3. Dryopithecus \rightarrow Australopithecus \rightarrow Rama pithecus \rightarrow Homo erectus \rightarrow Homo habilis
- 4. Dryopithecus \rightarrow Rama pithecus \rightarrow Australopithecus \rightarrow Homo habilis \rightarrow Homo erectus
- 52) Which of the following options best represents the enzyme composition of succus entericus?
- 1. maltase, dipeptidase, nucleosidases, lipase
- 2. Amylase, pepsin, trypsinogen, maltase
- 3. Peptidase, amylase, trypsin, rennin
- 4. Lipase, amylase, trypsinogen, procarboxypeptidase
- 53) Which part of the human brain consists of centers that control respiration, cardiovascular reflexes and gastric secretions?
- 1. medulla oblongata
- 2. mid brain
- 3. cerebrum
- 4. cerebellum
- 54) Figure shows the longitudinal section of human kidney with parts labeled 'A' to 'D'.

Select the option which correctly identifies them and gives their characteristics and/or functions:



- 1. D medulla, outer potion of kidney
- 2. A renal columns from which pelvis begins
- 3. C columns of Bertini, extensions of cortex in between renal pyramids
- 4. B cortex inner portion of kidney that forms renal pyramids
- 55) Select the correct option with respect to cockroaches:
- 1. mosaic vision of cockroach has less sensitivity but more resolution.
- 2. mesothoracic wings are transparent membranous and help to cover the hind wings when at rest.
- 3. males bear a pair of anal cerci while females lack them.
- 4. nervous system consists of ganglionated double ventral nerve cord.
- 56) Read the following statements and select the incorrect one.
- 1. Rosie, a transgenic cow, produced milk containing a-1-antitrypsin.
- 2. Human protein a-1-antitrypsin is used to treat emphysema.
- 3. In children, ADA deficiency can be cured by bone marrow transplantation.
- 4. Insulin, used for diabetes, was earlier extracted from the pancreas of cattle and pigs.
- 57) Which of the following features are common for both birds and mammals?
- 1. holoblastic cleavage and oviparous nature
- 2. pneumatic bones and air sacs
- 3. ossified endoskeleton and viviparous nature
- 4. homeothermous nature and pulmonary respiration
- 58) According to National Forest Policy (1988) which of the following is recommended in India regarding forests?
- 1. 33% forest cover for hills and 67% for plains
- 2. 19.4 % forest cover for hills and 33% for plains
- 3. 67% forest cover for hills and 33% for plains
- 4. 30% forest cover for hills and 19.4% for plains
- 59) All of the following changes occur during contraction of a skeletal muscle fiber except one
- 1. Width of A-band and I-band remain same
- 2. Actin filament slides over the myosin filaments
- 3. Length of actin and myosin filaments remain same
- 4. Width of H-zone decreases
- 60) 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
- 61) The formula for exponential population growth is
- 1. dN/rN = dt
- 2. rN/dN = dt
- 3. dN/dt = rN
- 4. dt/dN = rNV
- 62) Amrita Devi Bishnoi Wildlife Protection Award is for the individuals or communities from rural areas that have shown extraordinary courage in
- 1. reducing environmental pollution
- 2. reducing global warming
- 3. protecting wildlife
- 4. reduction of ozone depleting substances to save ozone layer
- 63) Sickle-cell anaemia is
- 1. caused by substitution of valine by glutamic acid in the beta globin chain of haemoglobin
- 2. caused by a change in a single base pair of DNA
- 3. characterised by elongated sickle-like RBCs with a nucleus
- 4. an autosomal dominant trait
- 64) Which of the following are correctly matched with respect to their taxonomic classification?
- 1. Spiny anteater, sea urchin, sea cucumber Echinodermata
- 2. Flying fish, cuttlefish, silverfish Pisces
- 3. Centipede, millipede, spider, scorpion Insecta
- 4. House fly, butterfly, tse-tsefly, silverfish Hexapoda
- 65) Increase in concentration of the toxicants as successive trophic levels is considered as:
- 1. eutrophication
- 2. biomagnifications
- 3. desertification
- 4. precipitation/leaching
- 66) Given below are the four methods (A D) and their mode of action (i iv) in achieving contraception. Select their correct matching from the four options that follows

Method Mode of action

- A) Copper T i) Prevents ovulation
- B) Vasectomy ii) Prevents the infection of STDs
- C) The pill iii) Suppresses the motility of sperms
- D) Condom iv) Semen without sperms
- 1. A iii; B iv; C i; D ii
- 2. A ii; B iii; C iv; D i

- 3. A iii ; B ii ; C i ; D iv
- 4. A i; B iv; C iii; D ii
- 67) Select the correct combination of conditions/disorders of the following that result due to pleiotropism
- 1. cystic fibrosis and hemophilia
- 2. sickle cell anemia and Turner's syndrome
- 3. Phenylketonuria and sickle cell anemia
- 4. Kleinefelter syndrome and Turner's syndrome
- 68) Identify the molecule shown below and select the right option giving its source and use

	Molecule	Source	Use
A)	Morphine	Papaver somniferum	Sedative and pain killer
B)	Cocaine	Erythroxylum coca	Accelerates the transport of
C)	Cannabinoid	Cannabis sativa	Effects on cardiovascular system
D)	Heroin	Datura	stimulant

- 1. A
- 2. B
- 3. C
- 4. D
- 69) Angle of slope and the value of 'Z' on a log scale for frugivorous birds and mammals of tropical rain forests with reference to relation between area and species richness respectively are
- 1. >450 and < 1
- 2. <450 and >1
- 3. <450 and < 1
- 4. >450 and > 1
- 70) 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 Microsporum
- 2. Ringworms Trichophyton
- 3. Typhoid Salmonella typhi
- 4. Pneumonia Haemophilus influenza
- 71) 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
- 72) Select the correct option that matches the endocrine gland with its respective hormone as well as the function :

Endocrine gland Hormone Function

- 1. Thyroid Thyroxine Regulates blood calcium levels
- 2. Anterior Pituitary Oxytocin Contraction of uterus muscles during parturition
- 3. Posterior Pituitary Vasopressin Obligatory reeabsorption of water in DCT of nephron
- 4. Corpus luteum Progesterone Maintains/supports pregnancy
- 73) If 300 J of energy is trapped at producer level, then how much energy will be available to peacock as food in the following chain?

 $Plant \rightarrow Mice \rightarrow Snake \rightarrow Peacock$

- 1. 30 J
- 2. 0.03 J
- 3. 3 J
- 4. 0.003 J
- 74) How do sympathetic neural signals affect the working of the human heart?
- 1. increase in heart rate without affecting the cardiac output
- 2. reduce both heart rate and cardiac output
- 3. increase both heart rate and cardiac output
- 4. heart rate decreases but cardiac output increases
- 75) Select the correct option related to the disorders among human beings that occur due to aneuploidy in allosomes:
- 1. Down's syndrome and Turner's syndrome
- 2. Klinefelter's syndrome and Sickle cell anaemia
- 3. Phenlyketonuria and Down's syndrome
- 4. Turner's syndrome and Klinefelter's syndrome
- 76) A woman with two genes (one on each X-chromosome) for haemophilia and one gene for color blindness on the X chromosome marries a normal man. How will the progeny be?
- 1. All sons and daughters are haemophilic and colorblind
- 2. Haemophilic and colorblind daughters
- 3. 50% haemophilic, colorblind sons and 50% haemophilic sons
- 4. 50% haemophilic daughters and 50% colorblind daughters
- 77) Which of the following might be the main reason for extinction of Stellar's sea cow and Passenger pigeon?
- 1. habitat degradation
- 2. co-extinction
- 3. over exploitation
- 4. invasion of Alien species
- 78) Select one correct example each of convergent evolution and divergent evolution ? Convergent evolution Divergent evolution

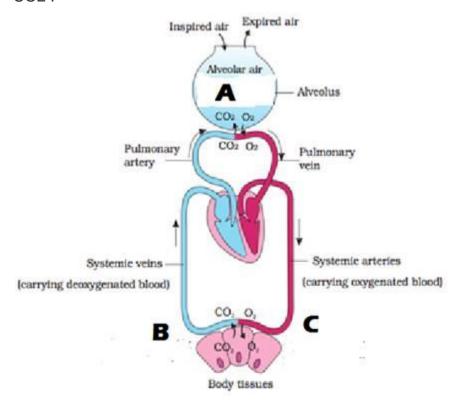
A) thorns of Bouganivillia and tendrils of Cucurbita	Eyes of Octopus and mammals	
B) Potato and sweet potato	Flippers of Penguins and Dolphins	
C) Bones of forelimbs of vertebrates	Wings of butterfly and birds	
D) Eyes of Octopus and mammals	Bones of forelimbs of vertebrates	

- 1. A
- 2. B
- 3. C
- 4. D
- 79) Select the correct combination of methods of natural selection:
- 1. centripetal selection: more individuals acQuire value other than the mean character value
- 2. disruptive selection: more individuals acQuire peripheral character value at both ends of the cdistribution curve.
- 3. stabilization selection : more individuals acQuire value other than the mean character.
- 4. directional selection: less individuals acQuire value other than the mean character.
- 80) Read the following statements and select the incorrect ones.
- (i) Circulatory system in arthropods is of closed type.
- (ii) Parapodia in annelids help in swimming.
- (iii) Phylum Mollusca is the second largest animal phylum.
- (iv) Poriferans are hermaphrodites
- 1. (i) and (iii) only
- 2. (i) only
- 3. (iii) only
- 4. (iii) and (iv) only
- 81) Which of the following can acts as biological response modifiers to activate immune system and helps in destroying the tumors?
- 1. interleukins
- 2. alpha interferons
- 3. monoclonal antibodies
- 4. haptens
- 82) Select the incorrect combination of pollution control measures and their actions

Pollution control measure	Method of working
A) Incinerators	burn hospital wastes
B) Catalytic converters	convert carbon dioxide into carbon monoxide
C) Electrostatic precipitators	Remove particulate matter
D) Scrubber	Removes gases like sulphur dioxide

- 1. A
- 2. B
- 3. C
- 4. D
- 83) Diagrammatic representation of exchange of gases at the alveolus and the body tissues with blood and transport of oxygen and carbon dioxide is given below. Select the

correct option for the labeled parts of A,B and C regarding partial pressures of O2 and CO2 :



	A	В	С
A)	$pO_2 = 95 \text{ mm Hg.}$	$pO_2 = 104 \text{ mm Hg.}$	$pO_2 = 40 \text{ mm Hg.}$
	$pCO_2 = 40 \text{ mm Hg.}$	$pCO_2 = 40 \text{ mm Hg.}$	$pCO_2 = 45 \text{ mm Hg.}$
B)	$pO_2 = 40 \text{ mm Hg.}$	$pO_2 = 95 \text{ mm Hg.}$	$pO_2 = 104 \text{ mm Hg.}$
	$pCO_2 = 45 \text{ mm Hg.}$	$pCO_2 = 40 \text{ mm Hg.}$	$pCO_2 = 40 \text{ mm Hg.}$
C)	$pO_2 = 104 \text{ mm Hg.}$	$pO_2 = 40 \text{ mm Hg.}$	$pO_2 = 95 \text{ mm Hg.}$
	$pCO_2 = 40 \text{ mm Hg.}$	$pCO_2 = 45 \text{ mm Hg.}$	$pCO_2 = 40 \text{ mm Hg.}$
D)	$pO_2 = 95 \text{ mm Hg.}$	$pO_2 = 40 \text{ mm Hg.}$	$pO_2 = 104 \text{ mm Hg.}$
	$pCO_2 = 40 \text{ mm Hg.}$	$pCO_2 = 45 \text{ mm Hg.}$	$pCO_2 = 40 \text{ mm Hg}.$

- 1. A
- 2. B
- 3. C
- 4. D
- 84) Which of the following associations is exampled for the interaction like commensalism?
- 1. micorrizae between fungi and roots of higher plants.
- 2. lichens between algae and fungi
- 3. Ophrys and bumble bees
- 4. orchid growing on a mango branch
- 85) Select the correct combination regarding the hormones and their actions:

	Hormone	Action
A)	Insulin	Promotes cellular uptake of glucose and thus increases
		blood glucose levels
B)	Parathyroid	Promotes bone resorption, reabsorption of Ca ²⁺ by renal
	hormone	tubules,
		Reabsorption of Ca ²⁺ from digested food
C)	Glucagon	Inhibits cellular uptake of glucose and thus decreases blood
		glucose levels
D)	Melanocyte stimulating	Very important role in the regulation of 24 hr. (diurnal)
	hormone (MSH)	rhythm of our body

- 1. A
- 2. B
- 3. C
- 4. D
- 86) Which one of following correctly explains the function of a specific part of a human nephron?
- 1. Afferent arteriole: Carries the blood away from the glomerulus towards renal vein
- 2. Podocytes: Create minute spaces (slit pores) for the filtration of blood into the Bowman's capsule
- 3. Henle'sloop: Most reabsorption of the major substances from the glomerular filtrate
- 4. Distal convoluted tubule: Reabsorption of Hydrogen and K+ ions into the surrounding blood capillaries
- 87) Which of the following shows the correct pathway of transport of sperms?
- 1. Rete testis epididymis vasa efferentia vas deferens
- 2. Rete testis vas deferens vasa efferentia epididymis
- 3. Rete testis vasa efferentia epididymis vas deferens
- 4. vasa efferentia rete testis vas deferens epididymis
- 88) Select the correct combination:
- LIST I LIST II
- a)Reissner's membrane i)between scala media and scala tympani
- b)Tectorial membrane ii)Otolith organ
- c)Crista iii)between scala vestibuli and scala media
- d)Basilar membrane iv)above the rows of hair cells of organ of Corti
- e)macula v)ampulla of semicircular canals
- 1. a iii; b iv; c v; d i; e ii
- 2. a i; b iv; c v; d iii; e ii
- 3. a iv ; b iii ; c ii ; d i ; e v
- 4. a iii; b iv; c i; d v; e ii
- 89) Which of the following method is related to the development of 'Hisardale' a new type of sheep in Punjab?
- 1. out crossing
- 2. inbreeding
- 3. interspecific hybridization
- 4. cross breeding

90) Skeletal muscles are :-

- 1. Involuntary, cylindrical, striated
- 2. Voluntary, spindle-shaped, uninucleate
- 3. Involuntary, fusiform, non-striated
- 4. Voluntary, multinucleate, cylindrical

NEET-3 Answers

Biology

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1) 3 2) 3 3) 3 4) 3 5) 1 6) 3 7) 1 8) 2 9) 3 10) 2 11) 2 12) 4
13) 4 14) 1 15) 3 16) 4 17) 4 18) 1 19) 1 20) 4 21) 1 22) 1 23) 1 24) 4
25) 2 26) 4 27) 1 28) 3 29) 3 30) 3 31) 4 32) 2 33) 3 34) 3 35) 1 36) 1
37) 4 38) 3 39) 3 40) 4 41) 4 42) 3 43) 4 44) 3 45) 1 46) 2 47) 2 48) 2
49) 3 50) 1 51) 4 52) 1 53) 1 54) 3 55) 4 56) 1 57) 4 58) 3 59) 1 60) 3
61) 3 62) 3 63) 2 64) 4 65) 2 66) 1 67) 3 68) 3 69) 4 70) 4 71) 3 72) 4
73) 3 74) 3 75) 4 76) 3 77) 3 78) 4 79) 2 80) 2 81) 2 82) 2 83) 3 84) 4
85) 2 86) 2 87) 3 88) 1 89) 4 90) 4
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