## 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 CO 2 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 8 C
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 GO 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 leavesare 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
C) Segregation
D) Diakinesis

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 <br> genetic diversity in ecosystem of various natural biomass and <br> 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 <br> 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. $X C X C, X Y$
2. $X C X, X C Y$
3. $X X, X C Y$
4. $X C X, X C Y$
51) Select the correct chronological order of the evolution of man.
1. Rama pithecus $\rightarrow$ Dryopithecus $\rightarrow$ Australopithecus $\rightarrow$ Homo erectus $\rightarrow$ 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. $\mathrm{dN} / \mathrm{rN}=\mathrm{dt}$
2. $\mathrm{rN} / \mathrm{dN}=\mathrm{dt}$
3. $\mathrm{dN} / \mathrm{dt}=\mathrm{rN}$
4. $\mathrm{dt} / \mathrm{dN}=\mathrm{rNV}$
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. $A-i i i ; B-i v ; C-i ; D-i i$
2. $A-i i ; B-i i i ; C-i v ; D-i$
3. $A-i i i ; B-i i ; C-i ; D-i v$
4. $A-i ; B-i v ; C-i i i ; D-i i$
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 O 2 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 $\mathrm{A}, \mathrm{B}$ and C regarding partial pressures of O 2 and CO2 :


|  | A | B | C |
| :---: | :---: | :---: | :---: |
| A) | $\begin{aligned} & \mathrm{pO}_{2}=95 \mathrm{~mm} \mathrm{Hg} . \\ & \mathrm{pCO}_{2}=40 \mathrm{~mm} \mathrm{Hg} . \end{aligned}$ | $\begin{aligned} & \hline \mathrm{pO}_{2}=104 \mathrm{~mm} \mathrm{Hg} . \\ & \mathrm{pCO}_{2}=40 \mathrm{~mm} \mathrm{Hg} . \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{pO}_{2}=40 \mathrm{~mm} \mathrm{Hg} . \\ & \mathrm{pCO}_{2}=45 \mathrm{~mm} \mathrm{Hg} . \\ & \hline \end{aligned}$ |
| B) | $\begin{aligned} & \mathrm{pO}_{2}=40 \mathrm{~mm} \mathrm{Hg} . \\ & \mathrm{pCO}_{2}=45 \mathrm{~mm} \mathrm{Hg} . \end{aligned}$ | $\begin{array}{\|l} \hline \mathrm{pO}_{2}=95 \mathrm{~mm} \mathrm{Hg} . \\ \mathrm{pCO}_{2}=40 \mathrm{~mm} \mathrm{Hg} . \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{pO}_{2}=104 \mathrm{~mm} \mathrm{Hg} . \\ & \mathrm{pCO}_{2}=40 \mathrm{~mm} \mathrm{Hg} . \\ & \hline \end{aligned}$ |
| C) | $\begin{aligned} & \mathrm{pO}_{2}=104 \mathrm{~mm} \mathrm{Hg} . \\ & \mathrm{pCO}_{2}=40 \mathrm{~mm} \mathrm{Hg} . \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{pO}_{2}=40 \mathrm{~mm} \mathrm{Hg} . \\ \mathrm{pCO}_{2}=45 \mathrm{~mm} \mathrm{Hg} . \\ \hline \end{array}$ | $\begin{aligned} & \hline \mathrm{pO}_{2}=95 \mathrm{~mm} \mathrm{Hg} . \\ & \mathrm{pCO}_{2}=40 \mathrm{~mm} \mathrm{Hg} . \\ & \hline \end{aligned}$ |
| D) | $\begin{aligned} & \mathrm{pO}_{2}=95 \mathrm{~mm} \mathrm{Hg} . \\ & \mathrm{pCO}_{2}=40 \mathrm{~mm} \mathrm{Hg} . \end{aligned}$ | $\begin{aligned} & \mathrm{pO}_{2}=40 \mathrm{~mm} \mathrm{Hg} . \\ & \mathrm{pCO}_{2}=45 \mathrm{~mm} \mathrm{Hg} . \end{aligned}$ | $\begin{aligned} & \mathrm{pO}_{2}=104 \mathrm{~mm} \mathrm{Hg} . \\ & \mathrm{pCO}_{2}=40 \mathrm{~mm} \mathrm{Hg} . \end{aligned}$ |

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 <br> blood glucose levels |
| B) | Parathyroid <br> hormone | Promotes bone resorption, reabsorption of $\mathrm{Ca}^{2+}$ by renal <br> tubules, <br> Reabsorption of $\mathrm{Ca}^{2+}$ from digested food |
| C) | Glucagon | Inhibits cellular uptake of glucose and thus decreases blood <br> glucose levels |
| D) | Melanocyte stimulating <br> hormone (MSH) | Very important role in the regulation of 24 hr. (diurnal) <br> 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 $\mathrm{K}_{+}$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. $a-i i i ; b-i v ; c-v ; d-i ; e-i i$
2. $a-i ; b-i v ; c-v ; d-i i i ; e-i i$
3. $a-i v ; b-i i i ; c-i i ; d-i ; e-v$
4. $a-i i i ; b-i v ; c-i ; d-v ; e-i i$
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

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

