

# NEET (UG) GRAND TEST

No. of Questions: 180

Max. Marks: 720

Time: 3 Hours

[Each Question carries 4 marks. For each incorrect response, one mark will be deducted]

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## BIOLOGY

38. The gradual and predictable change in species composition in a given area is called:

- 1) Sere            2) Evolution  
3) Succession   4) Biocycling

39. If a root tip cell of onion had 16 chromosomes at G1 phase, the chromosome number in G2 phase is:

- 1) 8    2) 16    3) 32    4) 4

40. GLUT 4 is:

- 1) Restriction enzyme  
2) Transport protein  
3) Gene    4) Receptor protein

41. Certain characters of A, B, C are tabulated below. Find the correct option for A, B, C.

Characters	A	B	C
Cell wall	Present	Absent	Present
Flagella	Present	Absent	Present
Nutrition	Heterotrophic	Heterotrophic	Autotrophic

- | A           | B                  | C                |
|-------------|--------------------|------------------|
| 1) Euglena  | Slime mold         | Nostoc           |
| 2) E.coli   | Mycoplasma         | Diatom           |
| 3) Diatom   | Actinomy-<br>cetes | Methano-<br>gens |
| 4) Rhizopus | E. coli            | Mycopla-<br>sma  |

42. Incorrect regarding Selaginella:

- 1) Heterosporous  
2) Heterophyllous  
3) Cones            4) Sphenopsida

43. Which of the following is not mandatory on the herbarium sheet?

- 1) Vernacular Name  
2) Signature of the collector  
3) Family Name  
4) Location of collection

44. How many of the following show leaf modifications?

- Opuntia, Asparagus, Dioscorea, Pistia, Pinus, Ginger, Grape vine, Bougainvillea, Nepenthes  
1) 5    2) 6    3) 4    4) 3

45. Major function of the Endothecium is:

- 1) Protection    2) Nutrition  
3) Dehiscence    4) Secretion

46. Flippers of Penguins and Dolphins show different patterns of structure, yet they perform similar function. It is an example of:

- 1) Homologous organs that have evolved due to divergent evolution  
2) Analogous organs that have evolved due to convergent evolution  
3) Homologous organs that have evolved due to convergent evolution  
4) Analogous organs that have evolved due to divergent evolution

47. Match correctly the following and choose the correct option

- | List - I                      | List - II |
|-------------------------------|-----------|
| i) Environment Protection Act | A) 1974   |

ii) Air Prevention & Control of Pollution Act

iii) Water Act            C) 1986  
iv) Amendment of Air Act to include noise

- 1) i-C, ii-D, iii-A, iv-B  
2) i-A, ii-C, iii-B, iv-D  
3) i-D, ii-A, iii-B, iv-C  
4) i-C, ii-D, iii-B, iv-A

48. Identify the hormone with its correct matching of source of secretion and function:

- 1) Melatonin - Pars intermedia of pituitary gland - regulates diurnal rhythm of body  
2) Progesterone - corpus luteum - stimulates the appearance of secondary sexual characters  
3) Vasopressin - hypothalamus -- stimulates reabsorption of water in distal tubules of nephron  
4) Adrenaline - adrenal cortex - breakdown of glycogen into glucose

49. Choose the taxa among the following with exclusively marine animals only :

- 1) Annelida, Echinodermata, Mollusca  
2) Hemichordata, Cnidaria, Ctenophora  
3) Porifera, Ctenophora, Echinodermata  
4) Ctenophora, Echinodermata, Hemichordata

50. If both parents are carriers for sickle - cell anaemia, which is an autosomal recessive disorder, what are the chances of pregnancy resulting in an affected child?

- 1) 25 %            2) 100 %  
3) 50 %            4) 75 %

51. Which of the following are correctly matched with respect to their taxonomic classification?

- 1) Pterophyllum, Pteropus, Pteris - Pisces  
2) Ichthyophis, Aptenodytes, Psittacula-Aves  
3) Delphinus, Macropus, Ornithorhynchus - Mammalia  
4) Hemidactylus, Neophron, Macropus -Reptilia

52. In Lactational amenorrhoea, ovulation does not occur during the period of intense lactation because of

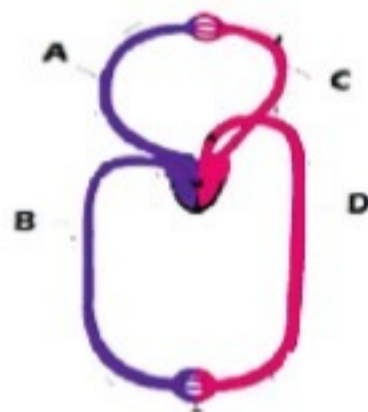
- 1) High level of GnRH  
2) Surge of Prolactin  
3) Surge of Estrogen  
4) High level of FSH and LH

53. Muscles present in myocardium in the wall of heart are:

- 1) Striped, structural syncytial, involuntary  
2) Unstriped, functional syncytial, voluntary  
3) Striated, functional syncytial, involuntary  
4) Non - striated, uninucleated,

voluntary

54. The following figure shows schematic plan of blood circulation in humans with labels A to D. Identify the label and its related information correctly mentioned:



- 1) A = Pulmonary vein ; takes blood from lungs to heart, PO<sub>2</sub> = 95mm Hg.  
2) D = Dorsal aorta ; takes blood from heart to body parts , PCO<sub>2</sub> = 95 mm Hg  
3) B = Vena cava ; takes blood from body parts to right atrium of heart, PCO<sub>2</sub> = 45 mm Hg  
4) C = Pulmonary artery ; takes blood from heart to lungs , PO<sub>2</sub> = 104 mm Hg

55. Which of the following statements is correct related to the endocrine system?

- 1) Releasing and inhibitory hormones are produced by the pituitary gland  
2) Non-nutrient chemicals produced by the body in trace amount that act as intercellular messengers are known as hormones  
3) Adeno hypophysis is under direct neural regulation of the hypothalamus  
4) Organs in the body like gastrointestinal tract, heart, kidney and liver do not produce any Hormones

56. Choose the correct statement about the features of cockroach :

- 1) Spermathecae store sperms in male cockroach  
2) Malpighian tubules which involve in excretion are located at the junction of fore gut and midgut  
3) Heart consists of elongated muscular tube lying along mid ventral line of both thorax and Abdomen  
4) Respiratory system consists of a network of trachea, that open through ten pairs of spiracles present on the lateral sides of the body

57. Match the following given in Column - I and Column - II and select the correct option:

- | Column - I          | Column - II     |
|---------------------|-----------------|
| a) Robert Constanza | e) Von Humboldt |
| b) David Tilman     |                 |
| c) Paul Ehrlich     |                 |
| d) Robert May       |                 |
- i) Estimation of global species

diversity at about 7 million  
ii) Species - area relationships  
iii) Increased diversity

contributed to higher productivity  
iv) Rivet popper hypothesis  
v) Price tags on nature's life - support services

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

58. In a hypothetical population of 300 individuals having 'r' = 0.5/ female /year. What will be the population size in 4 years (with e = 2.72) showing exponential rate of growth?

- 1) 2220    2) 1640    3) 990    4) 3330

59. In human beings, multiple allelic concept is exemplified by ABO blood groups . A man of blood group 'A' marries a woman of blood group 'B' and they have one child.

Select the correct option about the child's blood group:

- 1) It could only be group A.  
2) It could only be group A or group B  
3) It could only be group AB  
4) It could only be any of the group A, B, AB & O

60. Select the correct chronological order of the evolution of man.

- 1) Ramapithecus → Dryopithecus → Australopithecus → Homo erectus → Homo habilis  
2) Dryopithecus → Ramapithecus → Australopithecus → Homo habilis → Homo erectus  
3) Australopithecus → Ramapithecus → Dryopithecus → Homo erectus → Homo habilis  
4) Dryopithecus → Australopithecus → Ramapithecus → Homo erectus → Homo habilis

61. Partial pressure of Oxygen in the alveoli of lungs for normal respiration is:

- a) More than that in atmosphere  
b) More than that of the blood  
c) Less than that in atmosphere  
d) Equal to that in the blood  
e) Less than that in the blood  
Correct option is :  
1) b and c            2) a and d  
3) c and d            4) b and e

62. Which of the following is incorrect about the components in our ear?

- 1) Stapes and Scala vestibuli are associated with oval window of the cochlea.  
2) Tectorial membrane is located above the rows of the hair cells of organ of corti.  
3) Crista ampullaris and macula are associated with sense of hearing  
4) Tympanic membrane is composed of connective tissues covered with skin outside and mucus membrane inside.

63. Diagnostic report of a person revealed the fact that he is suffering with the deficiency of Vitamin, Cyanocobalamin . 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) Neck cells  
4) Oxyncitic cells

64. 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 of antral follicle - secrete estrogens  
4) Located in graffian follicle - secrete progesterone

65. 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) Marasmus  
3) Kwashiorkor    4) Cretinism

## KEY

- 38) 3    39) 2    40) 2    41) 2    42) 4  
43) 2    44) 1    45) 3    46) 2    47) 1  
48) 3    49) 4    50) 1    51) 3    52) 2  
53) 3    54) 3    55) 2    56) 4    57) 1  
58) 1    59) 4    60) 2    61) 1    62) 3  
63) 4    64) 1    65) 2

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