

Vocab
Unit 1

1. Central nervous system(CNS)
2. Peripheral nervous system(PNS)
3. glial cell

4. neuron
 - a. dendrite
 - b. axon
 - c. myelin sheath
 - d. Schwann cell
 - e. nodes of Ranvier
 - f. neurilemma

5. sensory neuron
6. sensory receptor
7. ganglion
8. interneuron
9. motor neuron
10. effector
11. reflex arc
12. synapse
13. presynaptic neuron
14. postsynaptic neuron

15. action potential
16. resting potential
17. facilitated diffusion
18. gated ion channel
19. sodium-potassium pump
20. active transport
21. polarized membrane
22. depolarization
23. repolarization
24. hyperpolarization
25. refractory period
26. saltatory conduction
27. threshold level
28. all-or-none response

29. neurotransmitter
30. acetylcholine
31. cholinesterase
32. summation

- 33. meninges
- 34. cerebrospinal fluid
- 35. cerebrum
- 36. cerebral cortex
- 37. corpus callosum
- 38. thalamus
- 39. hypothalamus
- 40. olfactory bulb
- 41. cerebellum
- 42. pons
- 43. medulla oblongata
- 44. sympathetic nervous system
- 45. parasympathetic nervous system
- 46. vagus nerve

- 47. Sensory adaption
- 48. sclera
- 49. cornea
- 50. aqueous humour
- 51. choroid layer
- 52. iris
- 53. retina
- 54. rods
- 55. cones
- 56. fovea centralis
- 57. rhodopsin
- 58. accommodation
- 59. glaucoma
- 60. cataract
- 61. astigmatism
- 62. nearsightedness
- 63. farsightedness

- 64. pinna
- 65. auditory canal
- 66. tympanic membrane
- 67. ossicles
- 68. oval window
- 69. eustachian tube
- 70. vestibule
- 71. semicircular canals
- 72. cochlea

73. organ of Corti

74. basilar membrane

75. otoliths

76. homeostasis

77. dynamic equilibrium

78. negative feedback

79. positive feedback

80. hormones

81. endocrines hormones

82. insulin

83. human growth hormone(hGH)

84. epinephrine(adrenaline)

85. pituitary gland

86. releasing hormone

87. inhibiting factor

88. islets of Langerhans

89. glucagon

90. diabetes

91. adrenal medulla

92. adrenal cortex

93. norepinephrine

94. glucocorticoid

95. mineralocorticoid

96. sex hormone

97. cortisol

98. adrenocorticotrophic hormone(ACTH)

99. tropic hormone

100. aldosterone

101. thyroid gland

102. parathyroid glands

103. thyroxine(T4)

104. triiodothyronine(T3)

105. calcitonin

106. goiter

107. parathyroid hormone (PTH)

108. antidiuretic hormone (ADH)

109. osmoreceptors

110. prostaglandins

111. anabolic steroids

Unit 2

112. testes
113. scrotum
114. vas deferens
115. ejaculatory duct
116. semen
117. seminiferous tubules
118. spermatogenesis
119. spermatogonia
120. spermatocyte
121. spermatid
122. somatic cell
123. Sertoli cell
124. epididymis
125. acrosome
126. seminal fluid
127. seminal vesicle
128. prostate gland
129. Cowper's(bulbourethral) gland
130. primary sexual characteristics
131. secondary sexual characteristics
132. testosterone
133. interstitial cell
134. gonadotropic hormones
135. follicle-stimulating hormone (FSH)
136. luteinizing hormone(LH)
137. gonadotropin-releasing hormone(GnRH)
138. inhibin

139. ovary
140. ovum
141. oocyte
142. uterus(womb)
143. endometrium
144. Fallopian tube(oviduct)
145. fibrium (plural:fibria)
146. vagina
147. cervix
148. oogenesis
149. follicle
150. granulosa
151. ovulation
152. corpus

- 153. luteum
- 154. menstruation (flow phase)
- 155. follicular phase
- 156. estrogen
- 157. ovulatory phase
- 158. luteal phase
- 159. progesterone
- 160. menopause
- 161. follicle-stimulation hormone(FSH)
- 162. luteinizing hormone(LH)

- 163. fertilization
- 164. zygote
- 165. embryo
- 166. fetus
- 167. cleavage
- 168. blastocyst
- 169. implantation
- 170. chorion
- 171. amnion
- 172. human chorionic gonadotropic hormone(hCG)
- 173. amniotic cavity
- 174. extraembryonic coelom
- 175. yolk sac
- 176. placenta
- 177. chorionic villi
- 178. allantois
- 179. umbilical cord
- 180. first trimester
- 181. gastrulation
- 182. gastrula
- 183. ectoderm
- 184. mesoderm
- 185. endoderm
- 186. second trimester
- 187. third trimester

Unit 3

- 188. Somatic cell
- 189. cell cycle
- 190. mitosis
- 191. cytokinesis
- 192. interphase
- 193. chromatin

194. centromere
195. sister chromatids
196. centriole
197. spindle fibre
198. enucleated
199. stem cell
200. telomere
201. meiosis
202. haploid
203. diploid
204. homologous chromosomes
205. tetrad
206. synapsis
207. crossing over
208. gametogenesis
209. ootid
210. polar body
211. oocyte
212. nondisjunction
213. polyploidy
214. trisomy
215. monosomy
216. karyotype chart

217. Progeny
218. dominant trait
219. recessive trait
220. allele
221. homozygous
222. heterozygous
223. genotype
224. phenotype
225. segregation
226. phenotypic ratio
227. Punnett square
228. genotypic ratio
229. testcross
230. pedigree chart
231. pleiotropic gene
232. wild type
233. mutant
234. incomplete dominance
235. codominance

- 236. dihybrid cross
- 237. selective breeding
- 238. inbreeding
- 239. polygenic trait
- 240. epistatic gene

- 241. Autosome
- 242. linked genes
- 243. sex-linked trait
- 244. recessive lethal
- 245. Barr body
- 246. linkage group
- 247. locus(loci)
- 248. marker gene
- 249. continuity of life
- 250. bacteriophage

- 251. nucleotide
- 252. deoxyribose sugar
- 253. nitrogenous base
- 254. phosphate group
- 255. complementary base pairing
- 256. antiparallel DNA replication
- 257. semiconservative replication
- 258. template
- 259. DNA helicase
- 260. DNA polymerase 3
- 261. leading strand
- 262. lagging strand
- 263. DNA polymerase 1
- 264. DNA ligase
- 265. gene expression
- 266. ribonucleic acid(RNA)
- 267. transcription
- 268. messenger RNA(mRNA)
- 269. translation RNA polymerase
- 270. promoter
- 271. template strand
- 272. termination sequence
- 273. codon
- 274. start codon
- 275. stop codon
- 276. ribosome

- 277. transfer RNA (tRNA)
- 278. anticodon
- 279. recombinant DNA
- 280. genetic transformation
- 281. restriction endonuclease
- 282. recognition site
- 283. palindromic
- 284. sticky ends
- 285. blunt ends
- 286. methylase
- 287. polymerase chain reaction(PCR)
- 288. vector
- 289. transgenic
- 290. plasmid
- 291. multiple-cloning site
- 292. point mutation
- 293. gene mutation
- 294. silent mutation
- 295. missense mutation
- 296. nonsense mutation
- 297. deletion
- 298. insertion
- 299. frameshift mutation
- 300. translocation
- 301. inversion
- 302. spontaneous mutation
- 303. mutagenic agent
- 304. induced mutation
- 305. phylogeny
- 306. SINEs
- 307. LINEs

Unit 4

- 308. allele frequency
- 309. fixed frequency
- 310. genetic drift
- 311. founder effect
- 312. bottleneck effect
- 313. gene flow
- 314. sexual selection
- 315. sexual dimorphism

- 316. Population size
- 317. population density

- 318. ecological density
- 319. population dispersion
- 320. clumped dispersion
- 321. uniform dispersion
- 322. random dispersion
- 323. natality
- 324. mortality
- 325. immigration
- 326. emigration

- 327. growth rate(gr)
- 328. per capita growth rate(cgr)
- 329. open population closed population
- 330. exponential growth
- 331. r species
- 332. doubling time
- 333. environmental resistance
- 334. logistic growth
- 335. lag phase
- 336. log phases
- 337. stationary phase
- 338. K species

- 339. symbiosis
- 340. interspecific competition
- 341. interference competition
- 342. exploitative competition
- 343. resource partitioning
- 344. mutualism
- 345. commensalism
- 346. parasitism
- 347. social parasite
- 348. succession
- 349. climax community
- 350. primary succession
- 351. secondary succession
- 352. pioneer community