

คำศัพท์ บทที่ 1 ชีวิตกับสิ่งแวดล้อม

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|--|--|--------------------------|---------------------------|
| 1.organism | 2.population | 3.community | 4.ecosystem |
| 5.biosphere | 6.biomes | 7.terrestrial biomes | 8.tropical rain forest |
| 9.temperate deciduous forest | 10.coniferous forest | 11.temperate grassland | 12.savanna |
| 13.desert | 14.tundra | 15.aquatic biomes | 16.freshwater biomes |
| 17.marine biomes | 18.estuaries | 19.terrestrial ecosystem | 20.aquatic ecosystem |
| 21.Ecology | 22.sechi-disc | 23.densimeter | 24.freshwater |
| 25.marine | 26.salinity | 27.precipitation | 28.littoral zone |
| 29.limnetic zone | 30.profundal zone | 31.benthic zone | 32.rapid zone |
| 33.pool zone | 34.coastal zone | 35.open sea zone | 36.spring tides |
| 37.neap tides | 38.coral reefs | 39.dino flagellate | 40.evergreen forest |
| 41.deciduous forest | 42.tropical rain forest หรือ tropical evergreen | | 43.dry evergreen forest |
| 44.evergreen forest หรือ mountain forest | 45.coniferous forest | | 46.mangrove forest |
| 47.peat swamp forest | 48.mixed deciduous forest | | 49.dry dipterocarp forest |
| 50.kangaroo rat | 51.mutualism | 52.protocooperation | 53.commensalism |
| 54.predation | 55.parasitism | 56.competition | 57.food chain |
| 58.food web | 59.energy flow | 60.trophic level | |
| 61.detritus food chain and detritus food web | 62.saprophytic food chain and saprophytic food web | | |
| 63.ecological pyramid | | | |

คำศัพท์ บทที่ 2 คุณภาพของสิ่งมีชีวิต

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| 1.Homeostasis | 2.Cell | 3.tissue | 4.organ |
| 5.organ system | 6.organism | 7.organelle | 8.Cell membrane |
| 9.Cell wall | 10.Cytoplasm | 11.nucleus | |
| 12.Selectively permeable membrane ,differentially permeable membrane | Semipermeable membrane | | |
| 13.ribosome | 14.endoplasmic reticulum (ER) | | |
| 15.Golgi body หรือ golgi complex | Golgi apparatus | 16.mitochondria | 17.chloroplast |
| 18.Vacuole | 19.nuclear membrane | 20.Eukaryotic cell | 21.Prokaryotic cell |
| 22.light microscope | 23.compound light microscope | | 24.objective lens |
| 25.eyepiece | 26.condenser lens | 27.Simple compound light microscope | |
| 28.Stereoscopic microscope | 29.electron microscope | 30.transmission electron microscope (TEM) | |
| 31.scanning electron microscope (SEM) | 32.diffusion | | 33.osmosis |
| 34.dynamic equilibrium | 35.isotonic solution | 36.hypertonic solution | 37.hypotonic solution |
| 38.Facilitated diffusion | 39.active transport | 40.exocytosis | 41.endocytosis |
| 42.phagocytosis | 43.pinocytosis | 44.receptor-mediated endocytosis | 45.vesicle |
| 46.osmotic pressure | 47.turgor pressure | 48.renal artery | 49.renal vein |
| 50.nephron | 51.glomerulus | 52.Bowman's capsule | |
| 53.antidiuretic hormone หรือ ADH | 54.Hypothalamus | | 55.cilia |
| 56.contractile vacuole | 57.nasal gland | 58.immunity | 59.antigen |
| 60.สัตว์เลือดอุ่น | 61.สัตว์เลือดเย็น | 62.epithelium | 63.phagocyte |
| 64.lymphocyte | 65.antibody | 66.antigen | 67.bone marrow |

68.thymus gland 69.lymph node 70.spleen 71.vaccine
 72.toxoid 73.allergy 74.acquired immune deficiency Syndrome : AIDS
 75.systemic lupus erythematosus 76.human immunodeficiency virus

คำศัพท์ บทที่ 3 การถ่ายทอดลักษณะทางพันธุกรรม

1.DNA	2.chromatin	3.chromosome	4.chromatid
5.centromere	6.homologous chromosome		7.karyokinesis
8.cytokinesis	9.mitosis	10.meiosis	11.somatic cell
12.cell cycle	13.interphase	14.mitotic phase หรือ M-phase	15.G1-phase
16.S-phase	17.chromosome duplication		18.G2-phase
19.prophase	20.centrosome	21.spindle fiber	22.metaphase
23.kinetochores	24.metaphase plate	25.anaphase	26.telophase
27.cell plate	28.diploid cell	29.haploid cell	30.crossing over
31.chiasma	32.meiosis	33.nucleotide	34.adenine
35.thymine	36.cytosine	37.guanine	38.allele
39.genotype	40.phenotype	41.dominance	42.recessive
43.pedigree	44.Autosome	45.sex chromosome	46.thalassemia
47.G-6-PD	48.mutation	49.genome	50.tissue
51.genetic	52.gene	53.cloning	54.natural selection
55.biodiversity	56.recombinant DNA	57.biotechnology	58.theory of Natural Selection
59.nitrogenous base	60.genome mapping	61.gene mapping	62.genetic engineering
63.DNA finger printing	64.species	65.spindle fiber	
66.genetically modified organisms (GMOs)		67.genetic adaptation	68.plasmid