

Important Points from Biology

- 1- Cutin is a lipid. It is not a protein.
- 2- Sucrose is a non-reducing sugar.
- 3- Isoprenoids are monomers of carotenoids, steroids and terpenes.
- 4- ATP, RuBP, NADP all have ribose sugar in them
- 5- Most enzymes work at slightly Alkaline pH.
- 6- With each cardiac output Kidney receives 10 %. { both Kidneys receive 20 % }
- 7- In a molecule of DNA nucleotides are linked both vertically and horizontally.
- 8- Tetroses are least abundant carbohydrates in nature.
- 9- Charged pores in a cell membrane are **formed by Channel proteins.**
- 10- Cytokinesis is the division of CELL after the division of cytoplasm. It is not the division of cytoplasm.
- 11- Bacterial chromosome has DNA only, nothing else.
- 12- NOSTOC lacks mitochondria and hence it is not present.
- 13- Chromosome condensation is at PEAK in METAPHASE phase.
- 14- All those sugars ending in "ulose" are KETO SUGARS {exceptions are Fructose and Dihydroxyacetone}, these are also keto.
- 15- Agar, Pectin, Starch do not contain NITROGEN in them.
- 16- CHITIN has NITROGEN in it.
- 17- Alkaloids {Nicotine, Daturine and Atropine} are frequently present in SOLANACEA family.
- 18- Acoelomates, Psuedocoelomates, Coelomates ALL have MESODERM in them.
- 19- CAPSID of Polio Virus is SPHERICAL in shape.
- 20- ENDOSPORES are formed during DECLINE phase.
- 21- Spores are formed during ASEXUAL reproduction in Rhizopus.

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- 22-Most superficial infections are caused by Duetromycetes fungi.
- 23-RED ALGAE also help in Coral formation.
- 24-Secondary host of Liver fluke is SNAIL.
- 25-TRANSDUCED bacterium has three types of DNA in it. {Of itself, of other bacteria and of Virus}
- 26-RHIZOPUS is Aseptate and Multinucleate.
- 27-Bacteriophage is always DNA, it cannot have RNA.
- 28-First organ system ever developed in evolution after formation of Mesoderm is neither Digestive, nor Nervous but it is EXCRETORY system by PLATYHELMENTHES.
- 29-HYDRA has no specialized muscle cells because it lacks MESODERM.
- 30-Triploblastic animals with radial symmetry are not Coelenterates, Arthropoda, and Chordates.
- 31-Mesoderm has originated from cell extensions of ectoderm and endoderm.
- 32-In most of the animals around us OPEN TYPE blood circulation is present.
- 33-Longest part of Digestive system is ILEUM.
- 34-innermost layer of digestive systems is MUCOSA.
- 35- Pancreas is involved in Chemical digestion of LIPIDS.
- 36-Mucous is made of Glycoprotein.
- 37-Trypsinogen is activated by Enterokinase enzyme.
- 38-Ciliated Epithelial cells are present in TRACHEA.
- 39-Respiratory surface is 2-cell thick.
- 40-CO, carbon monoxide has highest affinity for Hemoglobin-
- 41-Ptalylin works on the food when it passes through esophagus.
- 42- One fatty acid does not combine with another fatty acid and hence no linkage is present in two

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fatty acids.

43-An oxygen molecule in an alveolar space crosses 5 membranes till it reaches our red blood cells.

44- Hemoglobin can carry both CO and CO₂, O₂ and CO₂ simultaneously.

45- Papillary muscles are extensions of Endocardium.

46-In case of fungal infections Eosinophils increases in numbers.

47-Lymph flow requires a strong pumping by blood.

48-Mitral valve is also known as Bicuspid valve.

49-Urinogenital tract is also known as Urethra.

50-Maximum reabsorption of water takes place in Proximal Convolute Tubule.

51-Covering of Kidneys is Fibrous capsule.

52-Kidney interstitium is related to Aldosterone for more concentration.

53-Hepatic Vein has maximum amount of Urea.

54-Antibodies are transferred from mother to both fetus and Neonate.

55-Interferon are the antibiotics produced against viral attack.

56-Maturation of sperms takes place in Epididymus.

57-Thickest layer of female reproductive tract is Myometrium.

58-First polar body is present along with secondary oocyte.

59-Thickest endometrium is present just before Menstruation.

60-Bulbourethral gland performs the function of neutralization of urine and lubrication.

61-Testosterone is secreted in human male before birth.

62-Ovulation relates to the release of secondary oocyte.

63-Olecranon process is the process involved in locking Ulna and Elbow joint.

64-Smooth muscles first time appeared in Phylum Platyhelminthes.

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65-Digestion is not controlled by Cerebrum.

66-Medulla connects brain with spinal cord.

67-Adrenaline and nor-adrenaline are synergistic.

68-Veinous blood contains hormones.

69-Posterior lobe of Pituitary secretes ADH, secretes Oxytocin but does not synthesize any hormone.

70-Adrenaline dilates the pupil and ATROPINE also has the same function.

71-Sense organs like ears, eyes and nose are controlled directly by forebrain.

72-Neuroglial cells are actually SCHWANN cells.

73-T-1 refers to producers, T-2 refers to primary consumers, T-3 refers to secondary consumers and T-4 refers to tertiary consumers.

74-Mycorrhiza is an association between plants growing in Acidic soil.

75-Leaves are eaten by caterpillars and caterpillars are eaten by black birds.

76-Grasses are resistant to grazing due to underground stem.

77-Pesticide kills both insects and weeds.

78-Stability in system is related to Food Web; more complex the web, the more is stability of the system.

79-Symbiosis most correctly refers to living together of two organisms.

80-Herbivores are referred to as Primary Consumers and hence possess maximum amount of energy.

81-A car parked in sunlight and its temperature is higher than outside. It is an example of Green house effect phenomenon.

82-10% energy flows from one level to another of the total amount of energy.

83-Relation between T2 and T1 is GRAZING.

84-relation between T2 and T3 is called Predation.

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85-Green house gases are CO₂ and CFCs.

86-Food web is beneficial with more number of chains in it.

87-Parasitism, Commensalism and Mutualism can be present between the same species.

88-Retrovirus is used for Gene Therapy.

89-20 RNA nucleotides in the primer of PCR.

90-Male and female has more number of genes and more number of alleles respectively.

91-Autosomal diseases include color blindness and hemophilia.

92-Bombay disease refers to lack of an attachment factor.

93-50% RBC make composition of blood.

94-Community is a biotic factor of the ecosystem.

95-Golgi apparatus is absent in Blue green algae which is a prokaryote.

96-Asperigillus is an example of Brown mold.

97-Atropine and Adrenaline are synergistic.

98-Enterobius Vermicularis is present in Large intestine.

99-Primase plays the role of first logical step in the process of DNA replication.

100-During replication nucleotides used are triphosphates.

101-Golgi vesicles forming Golgi apparatus probably bud off from Smooth endoplasmic reticulum.

102-Hollow peristaltic contractions are called Hunger pangs.

103-Glycerol is absorbed in VILLI.

104-Carbonic acid is formed red blood cells.

105-Semilunar valves are present in heart, blood vessels and lymph vessels.

106-Granulocytes are polymorpho nuclear in nature.

107-Lithotripsy removes all types of stones present in gall bladder, urinary bladder and Kidney.

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- 108-Eosinophil and Basophil are antagonistic to each other.
- 109-Fibrinogen, Thrombocytes and Basophills all are involved in clotting of blood directly or indirectly.
- 110-Basophills release Heparin.
- 111-Urine is formed in Distal convoluted tubule.
- 112-CO is neutral in nature.
- 113-Single molecule of Haemoglobin has 4 iron groups in it.
- 114-Hip and shoulder joint are synovial joints.
- 115-Hormones are always released in Veinous blood.
- 116-Unmarried lady has more number of degenerated Corpus Luteum .
- 117-Ligaments differ from tendons in having Elastin.
- 118-Fermentation occurs in cytosole and Mitochondria.
- 119-Plasmid gene transfer are used for bacteria only.
- 120-DNA ligase not required for PCR.
- 121-Antigen of donor reacts with antibody of recipient.
- 122-Hydrogen bonds are more sensitive as compared to other bonds
- 123-Chlorophyll a is common in antenna complex and reaction centre of photosynthesis.
- 124-Evolution operates upon population.
- 125-Product of evolution is the origin of a new species.
- 126-Pilli are made up of PILLIN protein.
- 127-Wheat grain is seed as well as fruit.
- 128-Structural unit Reflex action is Neuron.
- 129-Nerve Tracts are part of Central Nervous System.

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130-Secretion of Histamine by Basophils is sometimes related with use of Penicillin.

131-Carotid Labyrinth is a swelling at the base of carotid artery and its function is to maintain the pressure of blood.

132-Most common form of glucose is in Ring form.

133-In prokaryotes the transcription takes place in nucleoid.

134-Leaves of Bamboo are used to cure the Horses.

135-Antibodies are present in blood lymph and interstitial fluid.

136-Retrovirus are not used in genetic engineering in bacteria.

137-Aristotle first discussed evolution

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