# ST.PAUL'S MATRICULATION HIGHER SECONDARY SCHOOL, BLOCK - 4, NEYVELI.

| X STD BIOLOGY INTERIOR QUESTIONS ONE MARK TEST TO  | ΓAL MARKS : 280        |
|--|------------------------|
| PORTION: UNITS 12 to 23  | IE: 3 HRS              |
| I. Choose the correct answer   |                        |
| 1. Light reaction takes place in of chloroplast.   |                        |
| a) Stroma b) Grana c) Inner membrane d) Thylakoid  |                        |
| 2. Dark reaction takes place in of chloroplast.  |                        |
| a) Stroma b) Grana c) Inner membrane d) Thylakoid  |                        |
| 3 is the ATP factory of the cell.  |                        |
| a) Chloroplast b) Mitochondria c) Ribosome d) Golgi apparatus  |                        |
| <ul><li>4. Hirudinaria granulosa belongs to Phylum</li><li>a) Annelida b) Arthropoda c) Platyhelminthes d) Aschelminthes</li></ul>   |                        |
| a) Annelida b) Arthropoda c) Platynelmintnes d) Aschelmintnes  5. The scientific name of the sammon robbit is  |                        |
| 5. The scientific name of the common rabbit is  a) Hirudinaria granulose b) Phalaris canariensis c) Oryctolagus cuniculus  | d) Dicum cativum       |
|  | u) Fisuili sativuili   |
| 6. Rabbit represents Phylum a) Mollusca b) Chordata c) Mammalia d) Annelida  |                        |
| 7. Rabbit belongs to class   |                        |
| a) Mollusca b) Chordata c) Mammalia d) Annelida  |                        |
| 8 Leach balance to Class   |                        |
| a) Annelida b) Gnathobdellida c) Hirudineria d) Hirudinea  |                        |
| 9. In leech, cocoon is produced by during the breeding season.   |                        |
| a) Nephridia b) Ovary c) Testis d) Clitellum   |                        |
| 10. In leech,tissue fills the entire coelom around the gut.  |                        |
| a) Botryoidal b) Muscular c) Connective d) Vascular  |                        |
| 11 is caused due to decreased secretion of the thyroid hormones in children.   |                        |
| a) Myxoedema b) Acromegaly c) Cretinism d) Gigantism   |                        |
| 12. In leech, digestion takes place in stomach by the action of enzyme.  a) Lipase b) Proteolytic c) Amylase d) Hyaluronidase  |                        |
| 13. In leech, ganglion acts as brain.  |                        |
| a) Circumpharyngeal b) Subpharyngeal c) Nephridia d) Suprapharyng  | real                   |
| 14. In leech, excretion takes place by .   | ,                      |
| a) Nephridia b) Testis c) Ovary d) Ganglion  |                        |
| 15. In rabbit, PNS is formed of pairs of cranial nerves andpairs of sp   | oinal nerves.          |
| a) 12 and 31 b) 12 and 32 c) 12 and 37 d) 12 and 39  |                        |
| 16. The right and left cerebral hemispheres are connected by transverse band of nerve tissue cannot be a superior of the connected by transverse band of nerve tissue cannot be a superior of the connected by transverse band of nerve tissue cannot be a superior of the connected by transverse band of nerve tissue cannot be a superior of the connected by transverse band of nerve tissue cannot be a superior of the connected by transverse band of nerve tissue cannot be a superior of the connected by transverse band of nerve tissue cannot be a superior of the connected by transverse band of nerve tissue cannot be a superior of the connected by transverse band of nerve tissue cannot be a superior of the connected by transverse band of nerve tissue cannot be a superior of the connected by transverse band of the connected by the connected by transverse band of the connected by the connected | alled                  |
| a) Corpora quadrigemina b) Hypothalamus c) Corpus callosum d) Thalamus   | 11 1 1                 |
| 17. In rabbit, the common tube is formed by the union of urinary bladder and the vagina and is a) Urinogenital canal b) Vestibule c) Urethra d) Both a and b   | s called the           |
| 18 utilizes energy to pump molecules against a concentration gradient.   |                        |
| a) Osmosis b) Passive transport c) Diffusion d) Active transport   |                        |
| 19. The movement of water occurs exclusively through the intercellular spaces and the space in the spac       | he walls of the cells. |
| a) Apoplastic b) Symplast c) Osmosis d) Diffusion  |                        |
| 20 pathway In this method, water molecules move to the adjacent cells, through   | n the plasma           |
| membrane, cytoplasm and plasmodesmata.   | •                      |
| a) Apoplastic b) Symplast c) Osmosis d) Diffusion  |                        |
| 21. The mechanism of translocation of sugars from source to sink is through  |                        |
| a) Hydathodes b) Stomata c) Xylem d) Pressure flow hypothesis  |                        |
| 22. Glucose prepared by photosynthesis is converted toduring the translocation fr  | om source to link.     |
| <ul><li>a) Sucrose</li><li>b) Fructose</li><li>c) Starch</li><li>d) Glycogen</li></ul> 23. The upward movement of water and minerals from roots to different plant parts is called   |                        |
| a)Transpiration b) Osmosis c) Ascent of sap d) Translocation   | ·                      |
| 24. The force of attraction between molecules of different substances is called  |                        |
| a) Adhesion b) Guttation c) Cohesion d) Diffusion  |                        |
| 25. Exudation of excess of water from the plants in the form of liquid due to root pressure is c   | alled                  |
| a) Adhesion b) Guttation c) Cohesion d) Diffusion  |                        |
| 26. Guttation takes place through specialized cells called   |                        |
| a) Stomata b) Cuticle c) Epidermis d) Hydathodes   |                        |
| 27. Life span of RBC is about days.  |                        |
| a) 8 – 10 b) 120 c) 80 d) 60   |                        |
| 28. Life span of platelets is days.  |                        |
| a) 8 – 10 b) 120 c) 80 d) 60<br>29. Arthropods, Molluscs and Ascidians possess type of circulatory system.   |                        |
| a) Closed & Open b) Closed c) Open   |                        |
| 30. Annelids and most of arthropods have type of heart beat.   |                        |
| a) Myogenic b) Neurogenic  |                        |
| 31. Mollusca and Vertebrates have type of heart beat.  |                        |
| a) Myogenic b) Neurogenic  |                        |
| 32. Normal pulse rate ranges from  |                        |
| a) 70 – 90 / min b) 50 – 70 / min c) 100 – 120 / min d) 80 – 120 / min   |                        |

#### www.Padasalai.Net - No.1 Educational Website in Tamilnadu 33. Each cardiac cycle lasts about \_ \_\_\_ second. a) 0.8 b) 0.1 c) 0.3 d) 0.4 34. Atrial systole or Contraction of auricles lasts about\_\_\_\_\_ seconds. a) 0.3 b) 0.4 c) 0.1 d) 0.8 35. Ventricular systole: Contraction of ventricles lasts about\_\_\_\_\_ seconds. b) 0.3 c) 0.1 d) 0.8 36. Ventricular diastole: Relaxation of ventricles lasts about\_\_\_\_\_\_ seconds. a) 0.4 b) 0.8 c) 0.3 d) 0.1 37. In an healthy adult during normal resting condition systolic and diastolic blood pressure is expressed as a) 120mm / 160 mm Hg b) 80mm / 120mm Hg c) 60mm / 80mm Hg d) 120mm / 80mm Hg is a clinical instrument used to measure blood pressure. a) Thermometer b) Stethoscope c) Sphygmomanometer d) Glucometer 39. Persons with '\_\_\_\_\_' blood group are called 'Universal Recipient' as they can receive blood from persons with any blood group. a) A c) AB d) O b) B 40. Persons with '\_\_\_\_\_\_' blood group are called 'Universal Donor' as they can donate blood to persons with any blood group. a) A b) B c) AB d) O 41. The lymphatic capillaries of intestinal villi which absorb digested fats are known as \_\_\_ a) Lymph nodes b) Lymph vessels c) Ileum d) Lacteals 42. The important neurotransmitter released by neurons is called \_ a) Acetylcholine b) Neurolemma c) Lactic acid d) Neuralgia 43. Mid brain consists of four rounded bodies called \_\_\_ a) Corpus collosum b) Cerebellum c) Corpora quadrigemina d) Pons 44. The most crucial molecules that determine our brain's integrity and the ability are \_\_ d) Essential Fatty Acids a) Minerals b) Fats c) Vitamins \_ pairs of cranial nerves. 45. In man, there are \_ a) 12 b) 17 c) 21 d) 31 \_ pairs of spinal nerves. 46. In man, There are \_\_ a) 12 b) 17 c) 21 d) 31 \_ delays the process of ageing in plants. This is called Richmond Lang effect. 47. Application of \_\_\_\_\_ b) Cytokinin c) Ethylene d) Abscisic acid a) Auxin 48. The branch of biology which deals with the study of the endocrine glands and its physiology is known as a) Palaeontology b) Endocrinology c) Embryology d) Pathology 49. They first discovered the hormone \_\_ a) Oestrogen b) Testosterone c) Secretin d) Insulin 50. Excess secretion of growth hormone in adults results in\_\_\_ a) Myxoedema b) Acromegaly c) Cretinism d) Gigantism \_\_\_\_\_ is a hormone produced by the pineal gland. a) Melatonin b) Secretin c) Cortisole d) Aldosterone 52. Thyroid gland requires "\_\_\_\_\_ " of iodine everyday for the production of thyroxine. c) 80 µg a) 10 μg b) 60 μg d) 120 μg 53. The world's largest and tallest wind turbine is situated in\_ a) Tirunelveli b) Kanyakumari c) Hawaii d) California is caused by deficiency of thyroid hormones in adults. a) Myxoedema b) Acromegaly c) Cretinism d) Gigantism helps to reabsorb sodium ions from the renal tubules. d) Cortisole a) Adrenaline b) Testosterone c) Aldosterone form the endocrine part of the testes. a) Leydig cells b) Sertoli Cells c) Seminiferous tubules d) Germinal epithelium 57. Desirable level for blood cholesterol should be less than \_\_\_\_\_ for Indians. a) 100 mg/dl b) 200 mg/dl c) 300 mg/dl d) 400 mg/dl 58. Progesterone produced by \_ b) Graafian follicles a) Corpus Luteum c) Primary follicles d) Uterus \_\_\_ has a stimulatory effect on the immune function. a) Thyroxine b) Adrenaline c) Lymphoctes d) Thymosin 60. The ovule is attached to the ovary wall by a stalk known as \_ b) Synergids c) Funiculus d) Pedicel a) Nucellus 61. The pollination with the help of wind is called\_ a) Entomophily b) Hydrophily c) Anemophily d) Zoophily 62. Pollination with the help of insects like honey bees, flies are called\_ a) Entomophily b) Hydrophily c) Anemophily d) Zoophily 63. The process of spermatogenesis takes place in the \_ a) Sertoli cells b) Leydig Cells c) Scrotum d) Seminiferous tubules

c) Scrotum d) Seminiferous tubules

c) Corona radiata

d) Cell wall

\_are the supporting cells and provide nutrients to the developing sperms.

b) Leydig Cells

65. The membrane forming the surface layer of the ovum is called\_ a) Zona Pellucida b) Vitelline membrane c) Coron

64. The

a) Sertoli cells

#### www.Padasalai.Net - No.1 Educational Website in Tamilnadu 66. A cord containing blood vessels that connects the placenta with the foetus is called the\_\_\_\_\_ b) Fallopian tube c) Umbilical cord d) Uterine wall a) Placenta 67. Normally gestation period of human last for about \_\_\_\_\_ days. a) 200 b) 280 d) 380 c) 350 68. The phenotypic ratio of Monohybrid cross is is \_\_\_\_\_\_. a) 3:1 b) 1:2:1 c) 9:3:3:1 d) 1: 3 69. The genotypic ratio of Monohybrid cross is \_\_\_ a) 3:1 b) 1:2:1 c) 9:3:3:1 d) 1: 3 70. If alleles are alike (TT & tt) they are referred to as \_ a) Homozygous b) Heterozygous c) Allelomorphs d) Monozygous 71. If alleles are unlike (Tt) they are referred to as \_ b) Heterozygous c) Allelomorphs a) Homozygous d) Monozygous \_\_\_\_\_maintains and provides stability to the chromosomes. a) Centromere b) Chromoneme c) Telomeres d) chromomere bonds between the nitrogenous bases make the DNA molecule stable. a) Hydrogen b) Phosphodiester c) Covalent d) All the above 74. Each turn of the double helix in DNA is \_\_ b) 43 A° (4.3 nm) c) 38 A° (3.8 nm) a) $32 \text{ A}^{\circ} (3.2 \text{ nm})$ d) 34 A° (3.4 nm) 75. There are \_\_\_\_\_ base pairs in a complete turn of the double helix in DNA. a) 5 b) 8 c) 10 d) 12 76. The specific points on the DNA, where the replication begins, is the \_\_\_\_\_ \_\_\_ of replication. b) Nucleotide c) Site of origin d) Nucleoside a) Terminus 77. The replication of DNA stops at site called \_ a) Terminus b) Nucleotide c) Site of origin d) Nucleoside 78. The enzyme \_\_\_ \_\_\_\_ separates the two strands of the DNA. a) Restriction Endonucleases b) Helicase c)DNA Polymerase d) DNA ligase 79. The enzyme \_\_\_\_\_ separates the double helix above the replication fork and removes the twists formed during the unwinding process. b) Restriction Endonucleases c)DNA Polymerase d) DNA ligase a) Topoisomerase 80. Okazaki fragments are joined together by the enzyme \_\_\_\_\_ a) Topoisomerase b) Restriction Endonucleases c)DNA Polymerase d) DNA ligase 81. The condition in which the individual bears more than the usual number of diploid (2n) chromosomes is called \_ . a) Euploidy b) Gene mutation c) Point mutation d) Aneuploidy 82. The loss or gain of one or more chromosomes in a set is called a) Euploidy b) Gene mutation c) Point mutation d)Aneuploidy 83. Down's syndrome is a genetic condition in which there is an extra copy of chromosome in \_\_\_\_\_ pair. a) 10 th b) 12 th c) 20 th d) 21 st 84. Vermiform appendix, nictitating membrane, caudal vertebra, coccyx are examples for \_\_\_\_\_ a) Atavism b) Vestigial organ c) Homologous organ d) Analogous organ 85. Presence of rudimentary tail in new born babies and presence of thick hair on the human body are examples for b) Vestigial organ c) Homologous organ a) Atavism d) Analogous organ is the gradual change occurring in living organisms over a period of time. a) Speciation b) Evolution c) Biognesis d) Ontogeny 87. Theory of Natural Selection was published in the book b) Biogenesis c) Philosophic Zoologique a) Evolution d) On the Origin of Species 88. The science which looks for the presence of extra terrestrial life in the universe is \_\_\_\_\_\_. a) Space Biology b) Exobiology c) Astrobiology d) Options b and c 89. The organisms which live in extreme environmental conditions on earth are called \_\_\_\_\_\_. b) Xerophytes c) Mesophytes d) Panspermia a) Extremophiles 90. Genetically modified rice can produce beta carotene, that can prevent Vitamin A deficiency is \_\_\_\_\_. a) Golden Rice b) IR 8 c) Silver Rice d) Ponni II. MATCH THE FOLLOWING Match the following - 1 91. Bulbils - a) Bryophyllum - b) Strawberry 92. Propagation by root 93. Propagation by stem -c) Agave

94. Propagation by leaf - d) Asparagus / Sweet Potato

#### Match the following - 2

95. Increase in blood sugar level - a) Glycosuria
96. Excretion of excess glucose in the urine
97. Frequent urination - c) Polydipsia
98. Increased thirst - d) Polyphagia
99. Increase in appetite - e) Hyperglycemia

100. Melatonin
101. Telomeres
102. Abscisic acid (ABA)
103. Thyroxine
104. Lymphocytes
- a) Antibodies
- b) Time messenger
- c) Aging clock
- d) Stress hormone
- e) Personality hormone

### Match the following - 4

105. Forebrain
106. Midbrain
107. Hindbrain
a) Mesencephalon
b) Rhombencephalon
c) Prosencephalon

#### Match the following - 5

108. Anaemia – a) Increase in the number of leukocytes
 109. Leucocytosis – b) Decrease in number of erythrocytes
 110. Leukopenia – c) Decrease in the number of thrombocytes
 111. Thrombocytopenia – d) Decrease in number of leukocytes

#### Match the following - 6

112. Two chambered heart - a) Aves, Mammals and Crocodiles

113. Three chambered heart
114. Incomplete four chambered heart
115. Four chambered heart
116. Three chambered heart
117. Four chambered heart
118. Three chambered heart
119. Three chambered heart
119. Three chambered heart
110. Three chambered heart
111. Three chambered heart
111. Three chambered heart
112. Three chambered heart
113. Three chambered heart
114. Three chambered heart
115. Three chambered heart
116. Three chambered heart
117. Three chambered heart
118. Three chambered heart
119. Three ch

### Match the following - 7

116. Purines
 a) Nitrogen base + Sugar
 b) Nucleoside + Phosphate
 118. Nucleoside
 c) Cytosine and Thymine
 d) Adenine and Guanine

### Match the following - 8

120. Continuous strand of daughter DNA - a) Grand Anicut

121. Short segments of daughter DNA - b) Hydraulic fracturing technique

122. Shale gas - c) Lagging strand 123. Kallanai Dam - d) Leading strand

#### Match the following - 9

124. Monosomy - a) 2n+1 125. Trisomy - b) 2n-2 126. Nullisomy - c) 2n-1

### Match the following - 10

127. Spores from outer space - a) Ginko biloba
128. Lamarck's theory of evolution
129. Living Fossil - c) Panspermia

130. Earth - d) Philosophic Zoologique

## Match the following - 11

131. TV-29

- a) Transgenic fish
- b) The first cloned sheep
- c) Triploid variety of tea

134. DOLLY

- a) Transgenic fish
- b) The first cloned sheep
- c) Triploid variety of tea
- d) Cobalt-60 and Caesium-137

135. Salmon or Rainbow trout or Tilapia -e) Hybrid vigour

### Match the following - 12

136. Insulin Dependent Diabetes Mellitus (IDDM)
- a) Atherosclerosis
137. Type-2 Non-Insulin Dependent Diabetes Mellitus (NIDDM)
- b) Ischemia

138. Narrowing of blood vessels

- c) Adult (Type – II)

139. Deficient blood supply to heart muscle

- d) Juvenile (Type – I)

#### Match the following - 13

140. Myocardial infarction
141. Hypercholesterolemia
142. Hypertension
a) High Density Lipoprotein (HDL)
b) Low Density Lipoprotein (LDL)
c) Death of the heart muscle tissue

143. Good Cholestrol
d) High blood pressure
e) High blood cholesterol

145. Oncology
a) Epithelial and glandular tissues cancer
b) Connective and muscular tissue cancer

147. Carcinomas
148. Sarcomas
149. Coccyx
150. Diaphragm
- c) Cervical cap
- d) The study of cancer
- e) Sickle cell anaemia
- f) Non functional organ

#### III. Write the Scientist name(s).

| III. Write the Scientist name(s).  |     |
|--|-----|
| 151.Father of Plant Anatomy  |     |
| 152.Classification of tissue system  |     |
| 153.Artificial photosynthesis to produce - Hydrogen fuel                       |     |
| 154. Chemical pathway for photosynthesis / Calvin cycle / Dark reaction.       |     |
| 155.Light dependent Reaction / Hill reaction \ Light reaction                  |     |
| 156.The mitochondria were first discovered by                                  |     |
| 157.Closed circulatory system was discovered by                                |     |
| 158. Father of Modern Physiology.  |     |
| 159. Rh factor was discovered in Rhesus monkey by                              |     |
| 160. Atrioventricular bundle (Bundle of His) was discovered by                 |     |
| 161. The term auxin was introduced by  |     |
| 162. Dutch biologist demonstrated the existence and effect of auxin in plants. | (V) |
| 163. Father of Endocrinology   |     |
| 164. English physiologists introduced the term <i>hormone</i> in 1909.         |     |
| 165. The first person who crystallised thyroxine in 1914 was                   |     |
| 166. The molecular structure of thyroxine was identified in 1927 by            | •   |
| 167. Human insulin was first discovered by                                     | ,   |
| 168. He was awarded Nobel Prize in 1993 for determining the role of            | 7   |
| chromosomes in heredity.   |     |
| 169. The term 'chromosomes' was first coined by                                |     |
| 170. The rule of DNA base pairing was proposed by                              |     |
| 171. The 3-dimension double helix structure of DNA correctly elucidated by     |     |
| 172. Father of Genetics  |     |
| 173. The term mutation was introduced by                                       |     |
| 174. Down's syndrome condition was first identified in 1866 by                 |     |
| 175. Biogenesis theory was developed by  |     |
| 176. The theory of Chemical Evolution of Life was developed by                 |     |
| 177. 'Theory of inheritance of Acquired Characters' or "Use and Disuse         |     |
| theory" was postulated by  |     |
| 178. Theory of Natural selection was postulated by                             |     |
| 179. Father of Paleobotany   |     |
| 180. Father of Indian Paleobotany  |     |
| 181. Radioactive carbon(C14) dating method method was discovered by            |     |
| 182. The term Ethnobotany was coinedby   |     |
| 183. Father of the Green Revolution  |     |
| 184. Father of Indian Green Revolution   |     |
| 185. Tamil agricultural scientist, environmental activist and organic farming  |     |
| expert   |     |
| 186. Dolly was the first cloned female sheep, developed by                     |     |
| 187. DNA fingerprintingtechnique was developed by                              |     |

# IV. Write the expansion for the following abbreviations.

| -              |  |
|----------------|--|
| 188. ATP       |  |
| 189. ADP       |  |
| 190. NAD       |  |
| 191. NADP      |  |
| 192. FAD       |  |
| 193. CNS       |  |
| 194. PNS       |  |
| 195. ANS       |  |
| 196. EFA       |  |
| 197. PAA       |  |
| 198. IAN       |  |
| 199. IBN       |  |
| 200.NAA        |  |
| 201. 2,4,5 - T |  |
| 202. IAA       |  |

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| 202 2 4 D       |  |
|-----------------|--|
| 203. 2, 4 D     |  |
| 204. ABA        |  |
| 205. TSH        |  |
| 206. ACTH       |  |
| 207. GTH        |  |
| 208. FSH        |  |
| 209. LH         |  |
| 210. ADH        |  |
| 211. BMR        |  |
| 212. MCH        |  |
| 213. RCH        |  |
| 214. UTI        |  |
| 215. IRRI       |  |
| 216. DGWG       |  |
| 217. NEFFFRGFST |  |
| 218. rDNA       |  |
| 217. VNTRs      |  |
| 218. GMSs       |  |
| 218. POCSO      |  |
| 219. NCPCR      |  |
| 220. CPCR       |  |
| 221. WHO        |  |
| 222. IDDM       |  |
| 223. NIDDM      |  |
| 224. BMI        |  |
| 225. CVD        |  |
| 226. CHD        |  |
| 227. HDL        |  |
| 228. LDL        |  |
| 229. PUFA       |  |
| 230. AIDS       |  |
| 231. HIV        |  |
| 232. ELISA      |  |
| 233. IBWL       |  |
| 234. WWF        |  |
| 235. WCN        |  |
| 236. IUCN       |  |
| 237. CITES      |  |
| 238. BNHS       |  |
| 239. LPG        |  |
| 240. CFL        |  |
| 241. LED        |  |
| 242. PVC        |  |
|                 |  |

# V. Write the date / year for the following events.

| v. write the date / year for the following events.                              |  |
|---|--|
| 243. Insulin was first used in treatment of diabetes on                         |  |
| 244. Menstrual Hygiene day  |  |
| 245. The First cloned female sheep Dolly was born on                            |  |
| 246. International Day against Drug Abuse and Illicit Trafficking «             |  |
| 247. Anti Tobacco Act was passed on   |  |
| 248. No Tobacco Day (World Anti-Tobacco Day)                                    |  |
| 249. World Cancer Day   |  |
| 250. National Cancer Awareness Day  |  |
| 251. Jim Corbett, the first National Park in India, was established in the year |  |
| 252. The Chipko movement was a non-violent agitation started in the year        |  |
| 253. Project Tiger was launched in the year                                     |  |
| 254. Crocodile Conservation Project was launched in the year                    |  |
| 255. First HIV infection identified in India (In chennai) in the year           |  |
| 256. Narcotic Drugs and Psychotropic Substances Act was introduced in the year. |  |
| 257. Gene Therapy was first successfully implemented in the year                |  |
| 258. Project Elephant was launched in the year                                  |  |
| 259. Sea Turtle Conservation Project was launched in the year                   |  |
| 260. POCSO Act came into force in the year                                      |  |

#### **UNIT - 23 VISUAL COMMUNICATION.** VI. Choose the correct answer. 261. Which is used to store multiple files? a) File saver b) Folder c) Storage space 262. Choose the Operating System from given option. a) Windows b) My computer c) Bin 263. The out put we get from any application is referred as \_\_\_\_\_ a) Data b) File c) Folder 264. The device which helps in explaining the concepts easily through pictures is known as \_\_\_ b) Visual Communication Device a) Visual Device c) Smart Device 265. Which software is used to create animations? a) Animating b) Scratch 266. Scratch is a programming language. a) Visual b) Animating c) High level \_ parts. 267. The Scratch has \_ b) 3 c) 4 268. Which is the background of the Scratch Window? b) Sprite c) Script a) Stage 269. What is the default colour of background of scratch? a) Yellow b) White c) Black 270. The characters on the background of Scratch window are known as b) Sprite c) Script a) Elements 271. What is the default character of Scratch? a) Dog b) Flower 272. Which is used to edit program in Scratch? b) Sprite a) Ink space c) Script editor 273. What is the another name for Script editor? a) Block editor b) Costume editor c) Sprite editor 274. The Script editor has \_ parts. b) Four a) Three c) Five 275. Which is used to build Scripts? a) Script area b) Block palette c) Stage 276. Where will you create category of blocks in Script editor? b) Script area a) Block menu c) Block palette 277. Where will you choose the block to use in Script editor? b) Script area a) Block menu c) Block palette

b) Edit → New

b) By clicking green flag

a) Madras Institute of Technology (MIT) b) The Massachusetts Institute of Technology (MIT)

c) By clicking execute option

c) Maharashtra Institute of Technology (MIT)

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278. How will create a new project in Script editor?

270. The software SCRATCH was developed by \_

279. How will you run your program in Script editor?

a) File → New

a) By clicking run option

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**BIOLOGY INTERIOR QUESTIONS ONE MARK TEST** TOTAL MARKS: 100

X STD

**ANSWER** TIME: 1 HR PORTION: UNITS 12 to 23 **Choose the correct answer** 1. Light reaction takes place in \_\_\_\_\_ of chloroplast. a) Stroma b) Grana c) Inner membrane d) Thylakoid 2. Dark reaction takes place in \_\_\_\_\_\_ of chloroplast. d) Thylakoid a) Stroma b) Grana c) Inner membrane \_ is the ATP factory of the cell. 3. a) Chloroplast b) Mitochondria c) Ribosome d) Golgi apparatus 4. Hirudinaria granulosa belongs to Phylum \_ b) Arthropoda c) Platyhelminthes a) Annelida d) Aschelminthes 5. The scientific name of the common rabbit is\_ a) Hirudinaria granulose b) Phalaris canariensis c) Oryctolagus cuniculus d) Pisum sativum 6. Rabbit represents Phylum \_ a) Mollusca b) Chordata c) Mammalia d) Annelida 7. Rabbit belongs to class b) Chordata c) Mammalia a) Mollusca d) Annelida 8. Leech belongs to Class. c) Hirudineria a) Annelida b) Gnathobdellida d) Hirudinea 9. In leech, cocoon is produced by \_\_\_\_\_ \_\_ during the breeding season. c) Testis a) Nephridia b) Ovary d) Clitellum 10. In leech, \_\_\_\_\_tissue fills the entire coelom around the gut. b) Muscular c) Connective d) Vascular is caused due to decreased secretion of the thyroid hormones in children. a) Myxoedema b) Acromegaly c) Cretinism d) Gigantism 12. In leech, digestion takes place in stomach by the action of \_\_\_\_ \_ enzyme. a) Lipase b) Proteolytic c) Amylase d) Hyaluronidase ganglion acts as brain. 13. In leech, \_\_\_\_ b) Subpharyngeal c) Nephridia a) Circumpharyngeal d) Suprapharyngeal 14. In leech, excretion takes place by\_ a) Nephridia b) Testis c) Ovary d) Ganglion pairs of cranial nerves and \_\_\_\_\_pairs of spinal nerves. 15. In rabbit, PNS is formed of \_\_ b) 12 and 32 c) 12 and 37 d) 12 and 39 a) 12 and 31 16. The right and left cerebral hemispheres are connected by transverse band of nerve tissue called\_\_\_\_\_. a) Corpora quadrigemina b) Hypothalamus c) Corpus callosum d) Thalamus 17. In rabbit, the common tube is formed by the union of urinary bladder and the vagina and is called the \_\_\_\_\_. b) Vestibule b) Urinogenital canal c) Urethra d) Both a and b utilizes energy to pump molecules against a concentration gradient. d) Active transport a) Osmosis b) Passive transport c) Diffusion 19. The \_\_\_\_\_ movement of water occurs exclusively through the intercellular spaces and the walls of the cells. b) Symplast d) Diffusion a) Apoplastic c) Osmosis pathway In this method, water molecules move to the adjacent cells, through the plasma membrane, cytoplasm and plasmodesmata. a) Apoplastic b) Symplast c) Osmosis d) Diffusion 21. The mechanism of translocation of sugars from source to sink is through\_ d) Pressure flow hypothesis a) Hydathodes b) Stomata c) Xylem 22. Glucose prepared by photosynthesis is converted to \_\_\_\_\_\_during the translocation from source to link. b) Fructose c) Starch d) Glycogen a) Sucrose 23. The upward movement of water and minerals from roots to different plant parts is called\_\_\_\_\_. a)Transpiration b) Osmosis c) Ascent of sap d) Translocation 24. The force of attraction between molecules of different substances is called\_ d) Diffusion a) Adhesion b) Guttation c) Cohesion 25. Exudation of excess of water from the plants in the form of liquid due to root pressure is called \_\_\_\_\_\_. a) Adhesion b) Guttation c) Cohesion d) Diffusion 26. Guttation takes place through specialized cells called\_\_\_ a) Stomata b) Cuticle c) Epidermis d) Hydathodes 27. Life span of RBC is about \_\_ \_ days. a) 8 - 10c) 80 b) 120 d) 60 28. Life span of platelets is \_\_\_ \_\_\_ days. a) 8 - 10b) 120 c) 80 d) 60 29. Arthropods, Molluscs and Ascidians possess \_\_\_\_\_ type of circulatory system. a) Closed & Open b) Closed c) Open 30. Annelids and most of arthropods have \_\_\_\_\_ type of heart beat. a) Myogenic b) Neurogenic 31. Mollusca and Vertebrates have \_\_\_\_\_\_ type of heart beat. a) Myogenic b) Neurogenic

| 32. Normal pulse rate ranges from   |
|---|
| a) $70 - 90 / \min$ b) $50 - 70 / \min$ c) $100 - 120 / \min$ d) $80 - 120 / \min$  |
| 33. Each cardiac cycle lasts about 0.8 second.  |
| a) 0.8 b) 0.1 c) 0.3 d) 0.4   |
|   |
| 34. Atrial systole or Contraction of auricles lasts about seconds.  |
| a) 0.3 b) 0.4 c) 0.1 d) 0.8   |
| 35. Ventricular systole: Contraction of ventricles lasts about seconds.   |
| a) 0.4 b) 0.3 c) 0.1 d) 0.8   |
| 36. Ventricular diastole: Relaxation of ventricles lasts about seconds.   |
|   |
| a) 0.4 b) 0.8 c) 0.3 d) 0.1   |
| 37. In an healthy adult during normal resting condition systolic and diastolic blood pressure is expressed as   |
| a) 120mm / 160 mm Hg b) 80mm / 120mm Hg c) 60mm / 80mm Hg d) 120mm / 80mm Hg  |
| 38 is a clinical instrument used to measure blood pressure.   |
| b) Thermometer b) Stethoscope c) Sphygmomanometer d) Glucometer   |
| 39. Persons with '' blood group are called 'Universal Recipient' as they can receive blood from persons   |
|   |
| with any blood group.   |
| a) A b) B c) AB d) O  |
| 40. Persons with '' blood group are called 'Universal Donor' as they can donate blood to persons with   |
| any blood group.  |
| a) A b) B c) AB d) O  |
|   |
| 41. The lymphatic capillaries of intestinal villi which absorb digested fats are known as   |
| a) Lymph nodes b) Lymph vessels c) Ileum d) Lacteals  |
| 42. The important neurotransmitter released by neurons is called  |
| a) Acetylcholine b) Neurolemma c) Lactic acid d) Neuralgia  |
| 43. Mid brain consists of four rounded bodies called  |
| a) Corpus collosum b) Cerebellum c) Corpora quadrigemina d) Pons  |
| a) Corpus conosum b) Cerebenum c) Corpora quadrigenima d) Fons  |
| 44. The most crucial molecules that determine our brain's integrity and the ability are   |
| a) Minerals b) Fats c) Vitamins d) Essential Fatty Acids  |
| 45. In man, there are pairs of cranial nerves.  |
| a) 12 b) 17 c) 21 d) 31   |
| 46. In man, There are pairs of spinal nerves.   |
| 40. In man, There are pans of spinar nerves.  |
| a) 12 b) 17 c) 21 d) 31   |
| 47. Application of delays the process of ageing in plants. This is called Richmond Lang effect.  a) Auxin b) Cytokinin c) Ethylene d) Abscisic acid   |
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| 48. The branch of biology which deals with the study of the endocrine glands and its physiology is known as   |
| a) Palaeontology b) Endocrinology c) Embryology d) Pathology  |
| 49. They first discovered the hormone secretin.   |
| a) Oestrogen b) Testosterone c) Secretin d) Insulin   |
| 50. Every correction of growth harmons in adults regults in   |
| 50. Excess secretion of growth hormone in adults results in   |
| a) Myxoedema b) Acromegaly c) Cretinism d) Gigantism  |
| 51 is a hormone produced by the pineal gland.   |
| a) Melatonin b) c) d)   |
| 52. Thyroid gland requires "" of iodine everyday for the production of thyroxine.   |
| a) 10 μg b) 60 μg c) 80 μg d) 120 μg  |
| 53. The world's largest and tallest wind turbine is situated in   |
| a) Tirunelveli b) Kanyakumari c) Hawaii d) California   |
| 54 is caused by deficiency of thyroid hormones in adults.   |
|   |
| a) Myxoedema b) Acromegaly c) Cretinism d) Gigantism  |
| 55 helps to reabsorb sodium ions from the renal tubules.  |
| a) Adrenaline b) Testosterone c) Aldosterone d) Cortisole   |
| a) Translating c) Testosterone c) Thaosterone   |
|   |
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| 65. The membrane forming the surface layer of the ovum is called  |
|---|
| a) Zona Pellucida b) Vitelline membrane c) Corona radiata d) Cell wall  |
| 66. A cord containing blood vessels that connects the placenta with the foetus is called the  |
| a) Placenta b) Fallopian tube c) Umbilical cord d) Uterine wall   |
| 67. Normally gestation period of human last for about days.   |
| a) 200 b) 280 c) 350 d) 380<br>68. The phenotypic ratio of Monohybrid cross is is   |
| a) 3:1 b) 1:2:1 c) 9:3:3:1 d) 1: 3  |
| 69. The genotypic ratio of Monohybrid cross is  |
| a) 3:1 b) 1:2:1 c) 9:3:3:1 d) 1: 3  |
| 70. If alleles are alike (TT & tt) they are referred to as  |
| a) Homozygous b) Heterozygous c) Allelomorphs d) Monozygous   |
|   |
| 71. If alleles are unlike (Tt) they are referred to as  a) Homozygous b) Heterozygous c) Allelomorphs d) Monozygous   |
| 72maintains and provides stability to the chromosomes.  |
| a) Centromere b) Chromoneme c) Telomeres d) chromomere  |
| 73 bonds between the nitrogenous bases make the DNA molecule stable.  |
| a) Hydrogen b) Phosphodiester c) Covalent d) All the above  |
| 74. Each turn of the double helix in DNA is   |
| a) 32 A° (3.2 nm) b) 43 A° (4.3 nm) c) 38 A° (3.8 nm) d) 34 A° (3.4 nm)   |
| 75. There are base pairs in a complete turn of the double helix in DNA.   |
| a) 5 b) 8 c) 10 d) 12   |
| 76. The specific points on the DNA, where the replication begins, is the of replication.  |
| a) Terminus b) Nucleotide c) Site of origin d) Nucleoside   |
| 77. The replication of DNA stops at site called  a) Terminus b) Nucleotide c) Site of origin d)Nucleoside   |
| a) Terminus b) Nucleotide c) Site of origin d) Nucleoside   |
| 78. The enzyme separates the two strands of the DNA.  |
| a) Restriction Endonucleases b) Helicase c)DNA Polymerase d) DNA ligase   |
| 79. The enzyme separates the double helix above the replication fork and removes the twists formed  |
| during the unwinding process.   |
| a) Topoisomerase b) Restriction Endonucleases c)DNA Polymerase d) DNA ligase  |
| 80. Okazaki fragments are joined together by the enzyme a) Topoisomerase b) Restriction Endonucleases c)DNA Polymerase d) DNA ligase  |
| a) Longisomerase – Di Restriction Endonlicleases – CIDNA Polymerase – di DNA ligase   |
|   |
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100. Melatonin
a) Antibodies 104
101. Telomeres
b) Time messenger 100
c) Aging clock 101
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e) Personality hormone 103

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106. Midbrain
107. Hindbrain
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b) Rhombencephalon 107
c) Prosencephalon 105

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 109. Leucocytosis – b) Decrease in number of erythrocytes 108
 110. Leukopenia – c) Decrease in the number of thrombocytes 111
 111. Thrombocytopenia – d) Decrease in number of leukocytes 110

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113. Three chambered heart
114. Incomplete four chambered heart
115. Four chambered heart
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117. Four chambered heart
118. Four chambered heart
119. Three chambers on the properties of the proper

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 - a) Nitrogen base + Sugar 118
 117. Pyrimidines
 - b) Nucleoside + Phosphate 119
 118. Nucleoside
 - c) Cytosine and Thymine 117
 119. Nucleotide
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121. Short segments of daughter DNA - b) Hydraulic fracturing technique 122

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- d) Leading strand 120

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128. Lamarck's theory of evolution
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130. Earth - d) Philosophic Zoologique 128

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132. Gamma garden or Atomic garden

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- c) Triploid variety of tea 131

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135. Salmon or Rainbow trout or Tilapia -e) Hybrid vigour 133

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137. Type-2 Non-Insulin Dependent Diabetes Mellitus (NIDDM)
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141. Hypercholesterolemia
142. Hypertension
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d) The study of cancer 145
149. Coccyx
e) Sickle cell anaemia 146
150. Diaphragm
f) Non functional organ 149

## III. Write the Scientist name(s).

| 111. Write the Scientist name(s).  |                                   |
|--|-----------------------------------|
| 151.Father of Plant Anatomy  | Nehemiah Grew                     |
| 152.Classification of tissue system  | Sachs (1875)                      |
| 153.Artificial photosynthesis to produce - Hydrogen fuel   | C.N.R. Rao                        |
| 154. Chemical pathway for photosynthesis / Calvin cycle / Dark reaction.                         | Melvin Calvin                     |
| 155.Light dependent Reaction / Hill reaction \ Light reaction                                    | Robin Hill (1939).                |
| 156.The mitochondria were first discovered by  | Kolliker in 1857                  |
| 157.Closed circulatory system was discovered by  | William Harvey (1628)             |
| 158. Father of Modern Physiology.  | William Harvey                    |
| 159. Rh factor was discovered in Rhesus monkey by  | Landsteiner and Wiener in 1940    |
| 160. Atrioventricular bundle (Bundle of His) was discovered by                                   | His (1893).                       |
| 161. The term auxin was introduced by  | Kogl and Haagen- Smith            |
| 162. Dutch biologist demonstrated the existence and effect of auxin in plants.                   | Frits Warmolt Went (1903–1990)    |
| 163. Father of Endocrinology   | Thomas Addison                    |
| 164. English physiologists introduced the term <i>hormone</i> in 1909.                           | W. M. Bayliss and E. H.           |
|  | Starling                          |
| 165. The first person who crystallised thyroxine in 1914 was                                     | Edward C. Kendal                  |
| 166. The molecular structure of thyroxine was identified in 1927 by                              | Charles Harrington and George     |
|  | Barger                            |
| 167. Human insulin was first discovered by   | Fredrick Banting, Charles Best    |
|  | and MacLeod in 1921.              |
| 168. He was awarded Nobel Prize in 1993 for determining the role of chromosomes in heredity.     | T.H. Morgan                       |
| 169. The term 'chromosomes' was first coined by  | Waldeyer in 1888.                 |
| 170. The rule of DNA base pairing was proposed by  | Erwin Chargaff                    |
| 171. The 3-dimension double helix structure of DNA correctly elucidated by                       | James Watson and Francis Crick.   |
| 172. Father of Genetics  | Johann Mendel                     |
| 173. The term mutation was introduced by   | Hugo De Vries                     |
| 174. Down's syndrome condition was first identified in 1866 by                                   | Langdon Down                      |
| 175. Biogenesis theory was developed by  | Louis Pasteur (1862)              |
| 176. The theory of Chemical Evolution of Life was developed by                                   | Oparin (1922) and Haldane (1929)  |
| 177. 'Theory of inheritance of Acquired Characters' or "Use and Disuse theory" was postulated by | Jean Baptiste Lamarck (1744-1829) |
| 178. Theory of Natural selection was postulated by   | Charles Darwin                    |
| 179. Father of Paleobotany   | Kaspar Maria Von Sternberg        |
| 180. Father of Indian Paleobotany  | Birbal Sahani                     |
| 181. Radioactive carbon (C14) dating method was discovered by                                    | W.F. Libby (1956)                 |
| 182. The term Ethnobotany was coined by  | J.W. Harshberger                  |
| 183. Father of the Green Revolution  | Dr. Norman E. Borlaug             |
| 184. Father of Indian Green Revolution   | Dr. M. S. Swaminathan             |
| 185. Tamil agricultural scientist, environmental activist and organic farming                    | Dr. G. Nammalvar                  |
| expert  186. Dolly was the first cloned female sheep, developed by                               | Dr. Ian Wilmut                    |
| 187. DNA fingerprintingtechnique was developed by  | Alec Jeffrey                      |
|  | •                                 |

# IV. Write the expansion for the following abbreviations.

| 188. ATP  | Adenosine Triphosphate                      |
|-----------|---|
| 189. ADP  | Adenosine Diphosphate                       |
| 190. NAD  | Nicotinamide Adenine Dinucleotide           |
| 191. NADP | Nicotinamide Adenine Dinucleotide Phosphate |
| 192. FAD  | Flavin Fdenine Dinucleotide                 |
| 193. CNS  | Central nervous system                      |
| 194. PNS  | Peripheral nervous system                   |
| 195. ANS  | Autonomic nervous system                    |
| 196. EFA  | Essential Fatty Acids.                      |
| 197. PAA  | Phenyl Acetic Acid                          |
| 198. IAN  | Indole 3 Acetonitrile                       |

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|-----------------|--|
| 199. IBN        | Indole 3 Butyric Acid  |
| 200. NAA        | α-Naphthalene Acetic Acid  |
| 201. 2,4,5 - T  | 2,4,5 Trichlorophenoxy Acetic Acid   |
| 202. IAA        | Indole – 3 - Acetic Acid   |
| 203. 2, 4 D     | 2,4 Dichlorophenoxy Acetic Acid  |
| 204. ABA        | Abscisic acid  |
| 205. TSH        | Thyroid stimulating hormone  |
| 206. ACTH       | Adrenocorticotropic hormone  |
| 207. GTH        | Gonadotropic hormones  |
| 208. FSH        | Follicle stimulating hormone   |
| 209. LH         | Luteinizing hormone  |
| 210. ADH        | Vasopressin or Antidiuretic hormone  |
| 211. BMR        | Basal Metabolic Rate   |
| 212. MCH        | Maternal and child health care   |
| 213. RCH        | Reproductive and Child Health Care   |
| 214. UTI        | Urinary Tract Infection  |
| 215. IRRI       | International Rice Research Institute  |
| 216. DGWG       | Dee-geo-woo-gen  |
| 217. NEFFFRGFST | Nammalvar Ecological Foundation for Farm Research and Global Food Security Trust |
| 218. rDNA       | Recombinant DNA  |
| 217. VNTRs      | Variable number of tandem repeat sequences                                       |
| 218. GMSs       | Genetically Modified Organisms   |
| 218. POCSO      | Protection of Children from Sexual Offences Act, 2012.                           |
| 219. NCPCR      | The National Commission for Protection of Child Rights.                          |
| 220. CPCR       | Commissions for Protection of Child Rights.                                      |
| 221. WHO        | World Health Organization  |
| 222. IDDM       | Insulin Dependent Diabetes Mellitus (TYPE 1)                                     |
| 223. NIDDM      | Non-Insulin Dependent Diabetes Mellitus (TYPE 2)                                 |
| 224. BMI        | Body mass index  |
| 225. CVD        | Cardiovascular disease   |
| 226. CHD        | Coronary heart disease   |
| 227. HDL        | High Density Lipoprotein   |
| 228. LDL        | Low Density Lipoprotein  |
| 229. PUFA       | Polyunsaturated Fatty Acids  |
| 230. AIDS       | Acquired Immune Deficiency Syndrome  |
| 231. HIV        | Human Immunodeficiency Virus   |
| 232. ELISA      | Enzyme Linked Immunosorbent Assay  |
| 233. IBWL       | (i) Indian Board for WildLife (IBWL)   |
| 234. WWF        | (ii) World Wildlife Fund (WWF) for Nature  |
| 235. WCN        | (iii) World Conservation Union (WCN)   |
| 236. IUCN       | (iv) International Union for Conservation of Nature and Natural resources        |
| 237. CITES      | Convention of International Trade in Endangered Species                          |
| 238. BNHS       | Bombay Natural History Society (BNHS)  |
| 239. LPG        | Liquefied Petroleum Gas  |
| 240. CFL        | Compact Fluorescent Lamps  |
| 241. LED        | Light Emiting Diode  |
| 242. PVC        | Polyvinyl Chloride   |
| _ 12.1 , C      | 1 org - mg1 Omorido  |

V. Write the date / year for the following events.

| 11th January 1922.       |
|--------------------------|
| May 28                   |
| July 1996                |
| June 26.                 |
| May 1 <sup>st</sup> 2004 |
| May 31 <sup>st</sup>     |
| 4th February             |
| 7th November             |
| 1936                     |
| 1973                     |
| 1973                     |
| 1976                     |
| 1985                     |
| 1985                     |
| 1990                     |
| 1992                     |
| 1999                     |
| 2012                     |
|                          |

#### **UNIT - 23 VISUAL COMMUNICATION.** VI. Choose the correct answer. 261. Which is used to store multiple files? a) File saver b) Folder c) Storage space 262. Choose the Operating System from given option. b) My computer a) Windows c) Bin 263. The output we get from any application is referred as \_\_\_ c) Folder a) Data b) File 264. The device which helps in explaining the concepts easily through pictures is known as \_\_\_\_\_ b) Visual Communication Device a) Visual Device c) Smart Device 265. Which software is used to create animations? a) Animating b) Scratch c) Paint 266. Scratch is a \_ programming language. a) Visual b) Animating c) High level \_ parts. 267. The Scratch has c) 4 a) 2 b) 3 268. Which is the background of the Scratch Window? a) Stage b) Sprite c) Script 269. What is the default colour of background of scratch? b) White c) Black a) Yellow 270. The characters on the background of Scratch window are known as a) Elements b) Sprite c) Script 271. What is the default character of Scratch? b) Flower a) Dog 272. Which is used to edit program in Scratch? a) Ink space b) Sprite c) Script editor 273. What is the another name for Script editor? b) Costume editor a) Block editor c) Sprite editor 274. The Script editor has \_ parts. a) Three b) Four c) Five 275. Which is used to build Scripts? a) Script area b) Block palette c) Stage 276. Where will you create category of blocks in Script editor? b) Script area a) Block menu c) Block palette 277. Where will you choose the block to use in Script editor? c) Block palette a) Block menu b) Script area 278. How will create a new project in Script editor? a) File → New c) File → Open b) Edit → New 279. How will you run your program in Script editor? a) By clicking run option b) By clicking green flag c) By clicking execute option 280. The software SCRATCH was developed by \_ a) Madras Institute of Technology (MIT) b) The Massachusetts Institute of Technology (MIT) c) Maharashtra Institute of Technology (MIT)

## **COMPILED BY**

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