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

X STD BI	IOLOGY INTERIOR QUESTIONS ONE MARK TEST	TOTAL MARKS: 280
PORTION: UNITS 12 to 2	23	TIME: 3 HRS
I. Choose the correct answ		
	ee in of chloroplast.	
	ana c) Inner membrane d) Thylakoid	
	e in of chloroplast.	
a) Stroma b) Gra 3 is the ATF	ana c) Inner membrane d) Thylakoid	
	b) Mitochondria c) Ribosome d) Golgi apparatus	
a) Annelida b)	pelongs to Phylum Arthropoda c) Platyhelminthes d) Aschelminthes	
5. The scientific name of the	ne common rabbit is	
a) Hirudinaria granı	ulose b) Phalaris canariensis c) Oryctolagus cuniculus	d) Pisum sativum
6. Rabbit represents Phylu	m	
	hordata c) Mammalia d) Annelida	
7. Rabbit belongs to class _	hondata a) Mammalia d) Annalida	
8. Leech belongs to Class.	hordata c) Mammalia d) Annelida	
9	Gnathobdellida c) Hirudineria d) Hirudinea	
	uced by during the breeding season.	
a) Nephridia b) (Ovary c) Testis d) Clitellum	
	ue fills the entire coelom around the gut.	
a) Botryoidal	b) Muscular c) Connective d) Vascular	
	of saliva contains which prevents the coagulation	of blood.
	b) Papillae c) Hirudin d) Proteolytic enzyme.	
	s place in stomach by the action of enzyme. oteolytic c) Amylase d) Hyaluronidase	
13. In leech,		
a) Circumpharynge	al b) Subpharyngeal c) Nephridia d) Suprapha	ryngeal
14. In leech, excretion take	es place by	<i>J U</i>
a) Nephridia b)	es place by Testis c) Ovary d) Ganglion	
15. In rabbit, PNS is formed	ed ofpairs of cranial nerves andpairs	of spinal nerves.
· · · · · · · · · · · · · · · · · · ·	12 and 32 c) 12 and 37 d) 12 and 39	
	oral hemispheres are connected by transverse band of nerve tissi	
, 1	emina b) Hypothalamus c) Corpus callosum d) Thala: tube is formed by the union of urinary bladder and the vagina a	
	nal b) Vestibule c) Urethra d) Both a and b	nd is called the
	rgy to pump molecules against a concentration gradient.	
	ssive transport c) Diffusion d) Active transport	
	nt of water occurs exclusively through the intercellular spaces a	and the walls of the cells.
	b) Symplast c) Osmosis d) Diffusion	
<u> </u>	In this method, water molecules move to the adjacent cells, thr	ough the plasma
membrane, cytoplasm and	b) Symplast c) Osmosis d) Diffusion	
	slocation of sugars from source to sink is through	
	Stomata c) Xylem d) Pressure flow hypothesis	
	notosynthesis is converted toduring the translocation	on from source to link.
	Fructose c) Starch d) Glycogen	
-	of water and minerals from roots to different plant parts is call	ed
	b) Osmosis c) Ascent of sap d) Translocation	
	b) Cuttation a) Cohesion d) Diffusion	·
	b) Guttation c) Cohesion d) Diffusion water from the plants in the form of liquid due to root pressure	is called
	b) Guttation c) Cohesion d) Diffusion	is canca
	rrough specialized cells called	
	Cuticle c) Epidermis d) Hydathodes	
27. Life span of RBC is about	out days.	
a) 8 – 10 b) 1	20 c) 80 d) 60	
28. Life span of platelets is a) $8-10$ b) 1	days.	
a) 8 – 10 b) 1	20 c) 80 d) 60	
	and Ascidians possess type of circulatory system. b) Closed c) Open	
, .	rthropods have type of heart beat.	
a) Myogenic b) N		
	tes have type of heart beat.	
a) Myogenic b) Neurogenic	
32. Normal pulse rate range		
a) $70 - 90 / \min$	b) $50 - 70 / \min$ c) $100 - 120 / \min$ d) $80 - 120 /$	min

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.
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.
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
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.
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
48. The branch of biology which deals with the study of the endocrine glands and its physiology is known as
a) Valagontology b) Hadoomaglogy a) Habryology d) Vathology
a) Palaeontology b) Endocrinology c) Embryology d) Pathology 49. They first discovered the hormone secretin
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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
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) 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 site of origin 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
78. The enzyme Helicase 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
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) 21st
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 fo
a) Atavism b) Vestigial organ c) Homologous organ d) Analogous organ
86 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
87. Theory of Natural Selection was published in the book a) Evolution b) Biogenesis c) Philosophic Zoologique 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 a) Extremophiles b) Xerophytes c) Mesophytes d) Panspermia
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
92. Propagation by root – b) Strawberry
93. Propagation by stem – c) Agave 94. Propagation by leaf – d) Asparagus / Sweet Potato
94. Flopagation by lear - u) Asparagus / Sweet Fotato
Match the following - 2
95. Increase in blood sugar level - a) Glycosuria
96. Excretion of excess glucose in the urine - b) Polyuria 97. Frequent urination - c) Polydipsia
98. Increased thirst - d) Polyphagia
99. Increase in appetite - e) Hyperglycemia

Match the following - 3

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. Four chambered heart
117. Four chambered heart
118. Four chambered heart
119. Reptiles
119. Fishes
119. Amphibians

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 - b) Goldilock zone
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
- 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

Match the following - 14

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.	
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.

2 / 0 / / 2200 0220 022pozzo	2011 101 0110 10110 11111 8 W 210 11W 10110
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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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? b) Scratch a) Animating c) Paint 266. Scratch is a _ programming language. a) Visual b) Animating c) High level 267. The Scratch has _ _ parts. b) 3 c) 4 268. Which is the background of the Scratch Window? b) Sprite a) Stage c) Script 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 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? a) Block editor b) Costume 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? a) Block menu b) Script area c) Block palette 277. Where will you choose the block to use in Script editor? a) Block menu b) Script area c) Block palette

a) File → New

a) By clicking run option b) By clicking green flag

b) Edit —

279. How will you run your program in Script editor? c) By clicking execute option

c) File → Open

270. The software SCRATCH was developed by

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

→ New

c) Maharashtra Institute of Technology (MIT)

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

COMPILED BY

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