310 PU M.Tech Computational Biology

1 of 100

113 PU_2016_M.Tech_310_Computational Biology_E With a normal diet, the percentage of daily calories that come from proteins is about:-

- 30 percent
- C 10 percent
- C 20 percent
- 40 percent

2 of 100

140 PU_2016_M.Tech_310_Computational Biology_E A compound that has a desirable properties to become a drug is called:-

- C Lead
- C Fit Compound
- Fit Drug
- O Hit

3 of 100

129 PU_2016_M.Tech_310_Computational Biology_E Which of the following colors of visible light has the longest wavelength?

- C Red
- C Green
- Yellow
- Violet

4 of 100

204 PU_2016_M.Tech_310_Computational Biology_E Naturally occurring polymers are:-

- Starch and nylon
- o protein and plastic
- C starch and cellulose
- o protein and nylon

5 of 100

185 PU_2016_M.Tech_310_Computational Biology_E If a material is heated and annealed, then its elasticity:-

- Will not change
- Becomes zero
- O Decreases

Increases

6 of 100

193 PU 2016 M.Tech 310 Computational Biology E

If an electron and a proton have the same de-Broglie wavelength, then the kinetic energy of the electron is:-

O

less than that of the proton

Ō zero

O equal to that of the proton

0 more than that of the proton

7 of 100

109 PU_2016_M.Tech_310_Computational Biology E Pulmonary artery differs from pulmonary vein in having:-

- С a) Thick wall
- C b) Thin wall
- С c) Valves

d) Both (b) and (c)

8 of 100

O

209 PU_2016_M.Tech_310_Computational Biology_E The main difference between an acid and a base is that:-

C acids donate hydrogen ions in water while bases accept hydrogen ions

- Ō acids are polar molecules and bases are not
- O bases donate hydrogen ions in water while acids accept hydrogen ions
- O bases are polar molecules and acids are not

9 of 100

177 PU_2016_M.Tech_310_Computational Biology_E If $\Phi = x^2 - xyz$, then $\nabla \Phi$ at (4, 3, 2) is:-

- Ю 2i-3i+2k
- С 4 i - 3 j + 2 k
- 16i 3i + 2k
- O 2i-8j+12k

10 of 100

161 PU_2016_M.Tech_310_Computational Biology_E Mention which one of the following is IR active?

- С $CH_2 = CH_2$, CH Stretching
- О $CH_2 = CHCI$

O

CH3 - CH3

 $CH_2 = CH_2, CH_2$ twist

11 of 100

120 PU_2016_M.Tech_310_Computational Biology_E One joule is the energy required to:-

O Move a mass of 1 gm by 1 cm distance by a force of 1 Newton

 \odot Raise the temperature of 1 gm of water by 1°C

O Move a mass of 1 kg by 1 m distance by a force of 1 Newton

O Raise the temperature of 1 kg of water by 1°C

12 of 100

181 PU_2016_M.Tech_310_Computational Biology_E When a source is going away from a stationary observer, with a velocity equal to that of sound in air, then the frequency heard by the observer will be:-

O Half

C Double

 \odot Same

О One third

13 of 100

153 PU 2016 M.Tech 310 Computational Biology E Natural amino acids found in following conformation:-

- O L and D
- C L

C D and S

O D and R

14 of 100

196 PU_2016_M.Tech_310_Computational Biology_E Two charges repel each other with a force of 10⁻⁴ N when they are 10 cm apart. When they are brought to 5 cm apart, the force will be:-

```
O
     0.5 \times 10^{-4} N
```

```
О
      0.25 x 10<sup>-4</sup> N
```

- O 2 x 10⁻⁴ N
- O 4 x 10⁻⁴ N

15 of 100

125 PU_2016_M.Tech_310_Computational Biology_E The value of 1KWH is:-

O $3.6 \times 10^{6} J$

- ^O 3.6 X 10⁵J
- ^O 3.6 X 10⁹ J
- ^O 3.6 X 10⁷ J

124 PU_2016_M.Tech_310_Computational Biology_E A mixture of single strand circular DNA, supercoiled DNA, linear DNA and relaxed DNA were separated on agarose gel, which one of them migrates fast?

C Super coiled DNA

- C Relaxed DNA
- Single stranded circular DNA
- C Linear double stranded DNA

17 of 100

173 PU_2016_M.Tech_310_Computational Biology_E L and D form are described based on the structure of:-

- Silver
- Glyceraldehyde
- Alanine
- Methanol

18 of 100

189 PU_2016_M.Tech_310_Computational Biology_E A convex and a concave lens separated by distance d are put in contact. The focal length of the combination:-

- becomes 0
- o increases
- O .
- decreases
- remains the same

19 of 100

132 PU_2016_M.Tech_310_Computational Biology_E Which of the following best completes the statement: The calorie is the amount of heat needed to raise?

- 1 gram of water 1 degree Celsius
- ^O 1 kilogram of water 1 degree Kelvin
- ^O 1 gram of water 1 degree Rankin
- ^O 1 kilogram of water 1 degree Celsius

20 of 100

184 PU_2016_M.Tech_310_Computational Biology_E Which of the following phenomenon cannot take place with sound wave?

- Interference
- Polarization
- Diffraction
- C Reflection

217 PU_2016_M.Tech_310_Computational Biology_E

The property of a substance to absorb moisture from the air on exposure is called:-

- O osmosis
- efflorescence
- C deliquescence
- C desiccation

22 of 100

180 PU_2016_M.Tech_310_Computational Biology_E Speed of three molecules of a gas are 3 ms⁻¹, 4 ms⁻¹ and 5 ms⁻¹. The r.m.s. speed of these molecule is:-

- 4 ms⁻¹
- 7.1 ms⁻¹
- 4.08 ms⁻¹
- 5 ms⁻¹

23 of 100

200 PU_2016_M.Tech_310_Computational Biology_E The pH of a solution is determined by:-

- environmental effect
- relative concentration of acids and bases
- dielectric constant of the medium
- C concentration of salt

24 of 100

144 PU_2016_M.Tech_310_Computational Biology_E The tool for identification of motifs:-

- PROSPECT
- COPIA
- BLAST
- Pattern hunter

25 of 100

201 PU_2016_M.Tech_310_Computational Biology_E Among the following, the compound that contains ionic, covalent and coordinate linkage is:-

- NH₄CI
- ° _{CaO}
- NaCl
- O NH3

100 PU_2016_M.Tech_310_Computational Biology_E Movement of solute against concentration gradient is called:-

- O Diffusion
- Osmosis
- Active transport

Passive transport

27 of 100

116 PU_2016_M.Tech_310_Computational Biology_E Retinol and retinal are interconverted requiring dehydrogenase or reductase in the presence of:-

- FAD
- NAD or NADP
- O NADPH
- O NADH + H+

28 of 100

149 PU_2016_M.Tech_310_Computational Biology_E Shotgun cloning differs from the clone-by-clone method in which of the following ways?

 $^{\circ}$

0

- Genetic markers are used to identify clones in shotgun cloning
- Computer software assembles the clones in the clone-by-clone method

^C The location of the clone being sequenced is known relative to other clones within the genomic library in shotgun cloning

The entire genome is sequenced in the clone-by-clone method, but not in shotgun sequencing

29 of 100

105 PU_2016_M.Tech_310_Computational Biology_E Which one is the cofactor of carbonic anhydrase?

- _{Fe}
- Cu Cu
- ° _{Zn}
- 0 ..
- 🦳 Mg

30 of 100

141 PU_2016_M.Tech_310_Computational Biology_E

Identify which of the following terms refers to the arrangement of different protein subunits in a multiprotein complex.

- Secondary structure
- C Quaternary structure
- C Tertiary structure
- O Primary structure

31 of 100

128 PU_2016_M.Tech_310_Computational Biology_E Induced electric currents can be explained using which of the following laws?

- Faraday's Law
- C Gauss's Law
- Ohm's Law
- Ampere's Law

32 of 100

101 PU_2016_M.Tech_310_Computational Biology_E Synapsis occurs between:-

- A male and a female gamete
- ^C mRNA and Ribosomes
- Two homologous chromosomes
- Spindle fibres and centromere

33 of 100

148 PU_2016_M.Tech_310_Computational Biology_E The dipole moments of BF3, H2S and H2O can be arranged as:-

$$^{\circ} BF_3 < H_2S > H_2O$$

$$^{\circ}$$
 BF₃ > H₂S > H₂O

 $BF_3 < H_2S < H_2O$

O BF₃ > H₂O < H₂S

34 of 100

112 PU_2016_M.Tech_310_Computational Biology_E An example of a transamination process is:-

- Glutamate = α -ketoglutarate + NH3
- Aspartate + hexanoic acid = glutamate + oxaloacetate
- Glutamate = hexanoic acid + NH3
- ^C Aspartate + α ketoglutarate = glutamate + oxaloacetate

35 of 100

197 PU_2016_M.Tech_310_Computational Biology_E Solar spectrum is an example for:-

- C line emission spectrum
- C continuous emission spectrum
- C line absorption spectrum
- band absorption spectrum

36 of 100

160 PU_2016_M.Tech_310_Computational Biology_E The basic difference between eukaryote and prokaryote is:-

- Presence of nucleus in prokaryote
- Presence of plasma membrane in eukaryote
- Presence of DNA in prokaryote
- Presence of nucleus in eukaryote

37 of 100

165 PU_2016_M.Tech_310_Computational Biology_E Which element is most likely to form a covalent compound?

- Cesium
- Magnesium
- Sodium
- Carbon

38 of 100

164 PU_2016_M.Tech_310_Computational Biology_E Ramachandran plot discusses about:-

- Phi-Psi correlation diagram
- O Phi-Psi energy diagram
- C Phi-Psi scatter diagram
- Phi-Psi steric contour diagram

39 of 100

212 PU_2016_M.Tech_310_Computational Biology_E D-Alanine and L-Alanine are technically known as:-

- enantiomers
- o polymer
- epimers
- anomers

40 of 100

137 PU_2016_M.Tech_310_Computational Biology_E

A 10 kilogram mass rests on a horizontal frictionless surface. A horizontal force of 5 Newtons is applied to the mass. After the force has been applied for 1 second, the velocity of the mass is:-

- O 0.5 meters per second
- 0 meters per second
- 50 meters per second
- ^O 5 meters per second

41 of 100

104 PU_2016_M.Tech_310_Computational Biology_E The exchange of gases between inhaled air and blood is referred as _____.

- C External respiration
- C Cellular respiration
- Internal respiration
- Circulatory respiration

42 of 100

172 PU_2016_M.Tech_310_Computational Biology_E Glucose can have following conformation:-

- Boat
- Boat and chair
- Staggered
- C Eclipse

43 of 100

152 PU_2016_M.Tech_310_Computational Biology_E Which of the following is a balanced equation?

- $C_2H_6 + 3O_2 \rightarrow CO_2 + 3H_2O$
- Na₂CO₃ + HCl \rightarrow 2NaCl + CO₂ + H₂O
- $^{\circ}$ CH₃OH + HCl \rightarrow CH₃Cl + H₂O
- $C_3H8 + 4O_2 \rightarrow 4H_2O + 3CO_2$

44 of 100

136 PU_2016_M.Tech_310_Computational Biology_E The Millikan experiment showed that electric charge was:-

- o quantized
- o positive
- negative
- o unmeasurable

213 PU_2016_M.Tech_310_Computational Biology_E Bromine is a:-

- red liquid
- О
- highly inflammable gas
- black solid
- C colourless gas

46 of 100

121 PU_2016_M.Tech_310_Computational Biology_E Bohr effect is:-

- Shifting of oxyhemoglobin dissociation curve to the right
- C Shifting of oxyhemoglobin dissociation curve to the left
- Ability of hemoglobin to combine with O2
- Exchange of chloride with carbonate

47 of 100

108 PU_2016_M.Tech_310_Computational Biology_E 'Dup' sound is produced during closure of:-

- a) Semilunar valves
- b) Bicuspid valve
- C) Tricuspid valve
- d) Both (b) and (c)

48 of 100

117 PU_2016_M.Tech_310_Computational Biology_E Template/lock and key theory of enzyme action is supported by:-

- Compounds similar to substrate inhibit enzyme activity
- C Enzymes speed up reaction
- Enzymes determine the direction of reaction
- Enzymes occur in living beings and speed up certain reactions

49 of 100

188 PU_2016_M.Tech_310_Computational Biology_E

A body of mass 4 kg is accelerated upon by a constant force, travels a distance of 5 m in the first second and a distance of 2 m in the third second. The force acting on the body is:-

° 2 N

- ° 8 N
- С _{12 N}
- ° 4 N

208 PU_2016_M.Tech_310_Computational Biology_E

In methane, the hydrogen atoms are spatially oriented toward the centers of a regular:-

- hexagon
- tetrahedron
- Square
- pentagon

51 of 100

169 PU_2016_M.Tech_310_Computational Biology_E

Beryllium atom has 4 protons, 5 neutrons and 4 electrons. What is the mass number of this atom?

- 0 8 8
- 5 0.

52 of 100

145 PU_2016_M.Tech_310_Computational Biology_E Which one of the following is the correct expression?

- Weight of an atom = one gm/6.023 10^{23}
- Absolute mass of an atom in gm = Atomic wt. in a.m.u x 1.66×10^{-24} gm
- Atomic wt. = Mass of an atom/Mass of C¹² atom
- 1 a.m.u. = Mass of one C¹² atom

53 of 100

156 PU_2016_M.Tech_310_Computational Biology_E Zwitter ions are the one:-

- Having positive ion and free radicals
- Having positive and negative ions
- Having Neutral and free radicals
- Having Negative ions and free radicals

54 of 100

133 PU_2016_M.Tech_310_Computational Biology_E

If the resultant force acting on a body of constant mass is zero, the body's momentum is:-

- always zero
- Increasing
- decreasing
- Constant

176 PU_2016_M.Tech_310_Computational Biology_E In the case of uniform circular motion, the physical quantity that does not remains constant is:-

- C linear momentum
- c kinetic energy
- Speed
- mass

56 of 100

168 PU_2016_M.Tech_310_Computational Biology_E The word Alkali came from:-

- C Greek
- Arabic
- Sanskrit
- C Italy

57 of 100

205 PU_2016_M.Tech_310_Computational Biology_E A solution with pH = 5 is ______ than a solution with pH = 7.

- C 2 times more basic
- O 1000 times more basic
- 10 times more basic
- 100 times more basic

58 of 100

216 PU_2016_M.Tech_310_Computational Biology_E Pubchem has information regarding:-

- ° _{DNA}
- Bio-activity
- Chemical structure & Bio-activity
- Chemical structure

59 of 100

157 PU_2016_M.Tech_310_Computational Biology_E Benzene is most stable due to:-

^C The sigma bonding system hybridized to create a flat shape which gives benzene its symmetry

- C The resonance of Pi electrons
- S-orbitals have created a hybridized system that has become delocalized
- C Its chemical nature

192 PU_2016_M.Tech_310_Computational Biology_E Hydrogen atom does not emit X-rays because:-

- ^C Energy levels in it are very close to each other
- C Energy levels in it are far apart
- C It contains only a single electron
- Its size is very small

61 of 100

222 PU_2016_M.Tech_310_Computational Biology_M Which of the following is not an IR vibrational mode?

- C Rocking
- C Rolling
- C Stretching
- C Scissoring

62 of 100

221 PU_2016_M.Tech_310_Computational Biology_M The sequence of letters 'WYQN' will represent:-

- ^C Tryptophan, glutamine, tryptophan, asparagine
- ^C Tryptophan, tyrosine, glutamic acid, asparagine
- C Tryptophan, tyrosine, glutamine, asparagine
- Glutamine, tyrosine, tryptophan, aspartic acid

63 of 100

237 PU_2016_M.Tech_310_Computational Biology_M A radioisotope used to label protein differentially from nucleic acids is:-

- O 35S
- ¹⁴C
- O 15N
- O 32p

64 of 100

239 PU_2016_M.Tech_310_Computational Biology_M The hyperchromic effect refers to:-

a maximum rate of denaturation versus temperature for duplex DNA

an increase in the absorbance of light at 260 nm upon denaturation of DNA

a change in the optical rotator dispersion of a DNA solution upon heating

An increase in absorbance of light at 260 nm when DNA-RNA hybrids are annealed

246 PU_2016_M.Tech_310_Computational Biology_M Actin filaments found in all of the following *except* the:-

- flagella of bacteria
- C contractile ring of dividing animal cells
- Sarcomeres of skeletal muscle cells
- microvilli of the intestinal brush border

66 of 100

238 PU_2016_M.Tech_310_Computational Biology_M

A non-supercoiled B-DNA molecule is composed of 4800 bps. How many helical turn are present?

- O 380
- 0
- U 480
- ₁₀

O

not possible to find

67 of 100

252 PU_2016_M.Tech_310_Computational Biology_M For what values of 'a' the three straight lines 3x + y + 2 = 0, 2x - y + 3 = 0 and x + ay - 3 = 0 are concurrent?

- ° ₋₂
- °,
- 0
- ° 4

68 of 100

228 PU_2016_M.Tech_310_Computational Biology_M Which of the following is common to both *E.coli* and eukaryotic chromosomes?

- DNA is contained in the nucleus
- DNA is packaged into nucleosomes
- O DNA is negatively supercoiled
- O DNA is circular

69 of 100

231 PU_2016_M.Tech_310_Computational Biology_M

Microsatellites are used more commonly than minisatellites as DNA markers because:-

- ^C minisatellites are present in too many location within the genomes
- restriction enzymes can be used to type microsatellites but not minisatellites
- there are very few microsatellites in eukaryotic genomes so they are easily identified and analyzed

O microsatellites are present throughout eukaryotic genomes and are easily amplified using PCR

70 of 100

233 PU 2016 M.Tech 310 Computational Biology M The Z- DNA helix:-

- C is the most common conformation of DNA
- \odot tends to be found at the 3'end of genes
- O is favoured by an alternating GC sequence
- O has fewer base pair peer turn than the B-DNA

71 of 100

223 PU_2016_M.Tech_310_Computational Biology_M Melting of DNA results in:-

- O decrease in optical density
- C no change in optical density
- C increase in optical density
- O none

72 of 100

244 PU_2016_M.Tech_310_Computational Biology_M If the ratio (A+G)/(T+C) in one strand of DNA is 0.7, what will be the ration of (A+G)/(T+C) in the complementary strand?

- O 0.7
- С 0.35
- C 1.43
- O 0.25

73 of 100 225 PU_2016_M.Tech_310_Computational Biology_M Sugar- phosphate backbone is:-

- С hydrophilic in nature
- С hydrophobic in nature
- С none covalent in nature
- O none

74 of 100

242 PU_2016_M.Tech_310_Computational Biology_M Which of the following reagents and conditions will denature ds DNA?

- C urea
- O heat

heat, urea and extreme pH

extreme pH

75 of 100

245 PU_2016_M.Tech_310_Computational Biology_M Which of the following is a *false* statement about myosin?

- C it is involved in muscle contraction
- O it does not act as a molecular motor
- O it has a long alpha-helical tail through which it forms homodimers
- C it links the actin bundles to the plasma membrane in the microvilli of intestinal cells

76 of 100

220 PU_2016_M.Tech_310_Computational Biology_M Protein fluorescence arises primarily from which residue?

- C Phenylalanine
- O Arginine
- C Tryptophan
- С Tyrosine

77 of 100

224 PU_2016_M.Tech_310_Computational Biology_M Eukaryotes differ from prokaryotes in DNA replication:-

- O discontinuous rather than semi-discontinuous replication
- Ō unidirectional rather than bidirectional replication
- Ō use of DNA primer instead of RNA primer
- O different enzymes for leading and lagging strands

78 of 100

254 PU 2016 M.Tech 310 Computational Biology M

Two circles of radii 5 cm and 3 cm intersect at two points and the distance between their centres is 4 cm. What will be the length of the common chord?

- O 12
- С 6
- 8 Ō
- 3

79 of 100

250 PU_2016_M.Tech_310_Computational Biology_M

The family of straight lines passing through the origin is represented by the differential equation:-

O

vdv - xdx = 0

C

```
 xdy - ydx = 0 
xdx + ydy = 0 
xdy + ydx = 0
```

259 PU_2016_M.Tech_310_Computational Biology_M

Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?

- ° _{9/20}
- ° 2/5
- ° 1/2
- о _{8/15}
- 0,10

81 of 100

288 PU_2016_M.Tech_310_Computational Biology_D A computer program that converts assembly language to machine language is:-

- Compiler
- Assembler
- Interpreter
- Comparator

82 of 100

269 PU_2016_M.Tech_310_Computational Biology_D A rectangular reservoir is 120 m long and 75 m wide. At what speed per hour water should flow into it through a square pipe of 20 cm wide so that the water rises 2.4 m in 18 hours?

- C 12km/hr
- 16 km/hr
- 30 km/hr
- 36 km/hr

83 of 100

273 PU_2016_M.Tech_310_Computational Biology_D Choanocytes are present in:-

- Ctenophora
- Cnidaria
- Arthropoda
- Porifera

84 of 100

284 PU_2016_M.Tech_310_Computational Biology_D When a cell is infected by virus, it releases antimicrobial proteins known as:-

- Cytokines
- Interleukins
- Interferons
- Pheromones

277 PU_2016_M.Tech_310_Computational Biology_D Coelom is a body cavity lined by:-

- C Endoderm
- C Echinoderm
- C Ectoderm
- Mesoderm

86 of 100

261 PU_2016_M.Tech_310_Computational Biology_D When rectangles are drawn with the areas proportional to the frequencies of respective class intervals, what is the diagram called?

- Histogram
- Bar graph
- Pie graph
- C Frequency polygon

87 of 100

268 PU_2016_M.Tech_310_Computational Biology_D

There are one brown and seven white eggs in an egg box. John decides to make a two-egg omelette. He takes out each egg from the box without looking at its colour. What is the probability that John gets an omelette made from two brown eggs?

- ° 3/4
- O 1/4
- 0 ...
- ຼິ 1/8
- ° 0

88 of 100

272 PU_2016_M.Tech_310_Computational Biology_D

If the mean of x, y and z is 'a'. If xy + yz + zx = 0, what is the mean of x^2 , y^2 and z^2 ?

- 3a²
- a²/3
- 9a²
- a²

285 PU_2016_M.Tech_310_Computational Biology_D ASCII stands for:-

- All purpose Scientific Code for Information Interchange
- American Standard Code for Information Interchange
- American Security Code for Information Interchange

American Scientific Code for Information Interchange

90 of 100

280 PU_2016_M.Tech_310_Computational Biology_D The aquatic sister group of modern land vertebrate is:-

- C Ray finned fish
- Dipnoans
- C Lobed finned fish
- Amphioxus

91 of 100

297 PU_2016_M.Tech_310_Computational Biology_D '.MOV' extension refers usually to what kind of file?

- Audio file
- Image file
- O MS Office document
- Animation/movie file

92 of 100

260 PU_2016_M.Tech_310_Computational Biology_D Three ships p, q and r sail from England to India. Odds in favour of their arrival safety are 2:5, 3:7 and 6:11 respectively. Find the probability that they all arrive safely.

- ° 0.01
- ° _{0.04}
- ° 0.02
- ° _{0.03}

93 of 100

296 PU_2016_M.Tech_310_Computational Biology_D What is part of a database that holds only one type of information?

- C Record
- Field
- Report
- C File

276 PU_2016_M.Tech_310_Computational Biology_D Retrogressive metamorphosis is observed in:-

- Amphioxus
- Hagfish
- Ascidia
- Balanoglossus

95 of 100

292 PU_2016_M.Tech_310_Computational Biology_D What do we call a collection of two or more computers that are located within a limited distance of each other and that are connected to each other directly or indirectly?

- Wide Area Network
- Inernet
- Interanet
- C Local Area Network

96 of 100

293 PU_2016_M.Tech_310_Computational Biology_D .INI' extension refers usually to what kind of file?

- C System file
- Image file
- Image Color Matching Profile file
- O Hypertext related file

97 of 100

289 PU_2016_M.Tech_310_Computational Biology_D Which of the following computer language is used for artificial intelligence?

- °_c
- FORTRAN
- PROLOG
- COBOL

98 of 100

264 PU_2016_M.Tech_310_Computational Biology_D If p and q are whole numbers such that $p^q = 121$, the value of $(p - 1)^q + 1$ is:-

- ° 1
- ο...
- [⊻] 100
- O 121

 $^{\circ}$ 1000

99 of 100

265 PU_2016_M.Tech_310_Computational Biology_D If sin A =cos A and A is an acute angle, then tan A - cot A is equal to:- \odot 0 O 1/2 \bigcirc 1 \odot

2

100 of 100

281 PU_2016_M.Tech_310_Computational Biology_D Neoteny is present in:-

O Turtle

- Ō Axolotl larva
- \bigcirc Toad
- $^{\circ}$ Frog