HEADMASTERS' FORUM, TIRUR SSLC வருவரவரி 2022
BIOLOGY MARKS : 40 TIME : 90 mnts
Answer any four questions from questions 1 to 6. Each question carries 1 score.
<ol> <li>Identify the word pair relationship and fill in the blank. Adenine : Thymine Guanine :</li> <li>Read the flow chart carefully. Name the process behind the flow chart Stimulus - Receptor - Sensory neuron - Inter neuron - Motor neuron - Muscl</li> <li>Observe the picture carefully. Name the labelled part in the picture.</li> </ol>
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<ul> <li>4. Gene therapy is an example of the boons of science for human existence. How does gene therapy becomes useful to human beings?</li> <li>5. Write the odd one . Write the common features of others         ( Dwarfism, Cretinism, Acromegaly, Gigantism )</li> <li>6. Read carefully the parts of ear given below. Identify and write the parts which helps in body balance.         ( Eustachian tube, Vestibule, Cochlea, Semi circular canals )</li> </ul>
Answer all questions from question number 7 to 9. Each question carries 1 score.
<ul> <li>7. Name the endocrine gland which is very active during infancy but constricts as we reach puber</li> <li>8. The chromosome number in human being is <ul> <li>(46, 22, 44, 23)</li> </ul> </li> <li>9. Name the technology of testing the arrangements of nucleotides in DNA</li> <li>10. Ashik met with an accident and he urgently needs blood. After blood test Antigen A, antigen and antibody b were identified in his blood. <ul> <li>a. Name his blood group</li> <li>b. Which of the following blood groups can receive for Ashik <ul> <li>(Venu A+ve, Amal AB+ve, Subair AB-ve, Anoop A-ve )</li> </ul> </li> </ul></li></ul>
Answer any one question from questions 11 to 12. Each question carries 2 score.
<ul> <li>11. Fill in the blanks with suitable words <ul> <li>a. The different forms of a gene are known as</li> <li>b. The pigment provides colour to our skin</li> </ul> </li> <li>12. Write any two situations in which we use artificial plant hormones</li> </ul>

## Answer any three questions from questions 13 to 16. Each question carries 3 score.

- 13. School Science club decided to conduct a poster exhibition in relation with National Tuberculosis Eradication Programme. Write the answers of the questions given below which helps the presentation of poster.
  - a. Name pathogen of Tuberculosis
  - b. Write any two symptoms of Tuberculosis
  - c. Name the vaccine which is used to prevent Tuberculosis
- 14. By giving appropriate heading, classify the following stages in correct order.
  - 1. Enzymes in lysosome destroy pathogen.
  - 2. Pathogen is trapped in membrane sac
  - 3. Expels the digested waste
  - 4. Membrane sacs combines with lysosome.
- 15. Complete the table

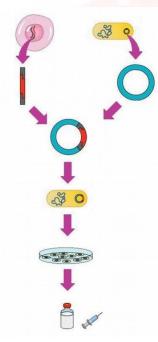
Organisms	Pheromones
a	Bombykol
Civet cat	b
С	Muscone

- 16. Prepare a flow chart showing the experience of taste.
- 17. Some organisms and their receptors are given below. Make correct pair as per the model. Model: Insects - Ommatidia

(Planaria, snake, shark, Jacobson's organ, lateral line, eyespot, insect) (Score 3)

## Answer any two questions from questions 18 to 20. Each question carries 4 score.

18. Observe the picture and write answers of the questions given below.



- a. Name the process indicated in this picture
- b. Write the steps in this process in correct order

