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.
 Identify the word pair relationship and fill in the blank. Adenine : Thymine Guanine : Read the flow chart carefully. Name the process behind the flow chart Stimulus - Receptor - Sensory neuron - Inter neuron - Motor neuron - Muscl Observe the picture carefully. Name the labelled part in the picture.
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 4. Gene therapy is an example of the boons of science for human existence. How does gene therapy becomes useful to human beings? 5. Write the odd one . Write the common features of others (Dwarfism, Cretinism, Acromegaly, Gigantism) 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)
Answer all questions from question number 7 to 9. Each question carries 1 score.
 7. Name the endocrine gland which is very active during infancy but constricts as we reach puber 8. The chromosome number in human being is (46, 22, 44, 23) 9. Name the technology of testing the arrangements of nucleotides in DNA 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. a. Name his blood group b. Which of the following blood groups can receive for Ashik (Venu A+ve, Amal AB+ve, Subair AB-ve, Anoop A-ve)
Answer any one question from questions 11 to 12. Each question carries 2 score.
 11. Fill in the blanks with suitable words a. The different forms of a gene are known as b. The pigment provides colour to our skin 12. Write any two situations in which we use artificial plant hormones

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

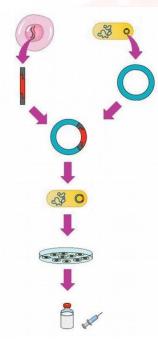
Organisms	Pheromones
a	Bombykol
Civet cat	b
С	Muscone

- 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

