JB Academy Annual Examination 2019-20 Class VIII (Science)

M.M-80 Time- 3hrs

General Instructions:

1. All questions are compulsory

2. Draw neat labelled diagrams on requirement.

Q1. Answer the following questions. [1x10=10]a. What is a decibel? b. What name is given to the region of burning gases? c. When was Project Tiger launched? d. Name the monomer of Polyester and nylon. e. Which gland is known as master gland? f. Expand- APPLE g. Why do we classify sun as a star? h. On combing our hair vigorously, some hair are pulled towards the comb. Name the force acting. i. Which 2 organelles are not found in the plant cell? j. On which principle a Periscope works? Q2. Define Biodiversity. [2] Q3. What is a Light Year? How many Km makes 1Light year. [2] Q4. Why does only one side of moon always face the earth? [2] Q5. What are Epicentre and Siesmic Focus in context of Earthquake? [2] Q6. Give 2-2 examples of (a) String instruments (b) Percussion instrument. [2] Q7. List the conditions necessary for combustion. [3] Q8. State 3 ways by which synthetic fibres are superior than natural fibre? [3] Q9. What is Binary fission? Show Binary fission in Amoeba with the diagram only. [3] Q10. A Pendulum takes 0.02 second to complete 1 vibration. Find its frequency. [2+1=3]

Q11. Define Puberty. List two changes which takes place in a male child during Puberty.

Arrange the following fuels in increasing order of their calorific value -

Kerosene oil, Hydrogen gas, coal and wood

- Q12. How does Ultrasonic vibration differ from infrasonic vibration? Give two examples of animals which can hear ultrasonic vibrations. Which animal can produce ultrasonic vibration and what is it used for?
- Q13. Draw a ray diagram with labelling to locate the image of an object kept at 2.5 cm in front of a plane mirror. State the laws of reflection. [5]
- Q14. Write an activity with the aim -To make a Jaltarang. [5]
- Q15. A girl weighing 50Kg is standing on pencil heels, each having an area of cross section of 1cm And an Elephant weighing 2000 Kg is also standing on the floor, area under its one foot is250cm². Calculate the pressure in both the case. Which of the two will exert more pressure on the floor and why?
- Q16. Explain the two main defects of vision with their cause and correction. Also draw diagrams for defected eyes and their corrections. [5]
- Q17. Draw a labelled diagram of Human eye with six labellings. [3+2=5]

Now answer the following questions-

- a. From where does the light enters the eye?
- b. Which nerve send signals to the brain?
- c. Which part regulates the amount of light entering the eye?
- d. Which muscle controls the focal length of the eye lense?
- Q18. Differentiate between the following [any four]

[2+2+2+2=8]

- a. Thermoplastic and Thermosetting plastic.
- b. Musical sound and Noise.
- c. Stars and constellations.
- d. Regular and Irregular reflection
- e. National parks and wildlife sanctuary.
- f. Rapid combustion and Explosion.
- Q19. Give reason for the following- [any four]

[2+2+2+2=8]

- a. Rayon is not truly an artificial fibre.
- b. Plasma membrane is also known as selectively permeable membrane.
- c. Comets have illuminated tails.
- d. Goldsmith uses the uppermost zone of flame to melt metals.
- e. Deep sea divers wear special suits.
- f. When bees fly we hear the sound but but when birds fly we cannot.