

Tsi8S

22.04.24

Tenkasi District
Common Annual Examination - 2024

Time: 2.30 Hours

Standard 8 SCIENCE

 Marks: 100
 12x1=12

I. Choose the correct answer:

- 1) Pascal's law is used in
 - a) hydraulic lift
 - b) break system
 - c) pressing heavy bundles
 - d) All the above
- 2) The spherical mirror used as a rear view mirror in the vehicle is
 - a) concave mirror
 - b) convex mirror
 - c) plane mirror
 - d) None of the above
- 3) The process of converting a liquid into a solid is called
 - a) Sublimation
 - b) Condensation
 - c) freezing
 - d) deposition
- 4) Mangalyaan was sent to
 - a) Moon
 - b) Mars
 - c) venus
 - d) Mercury
- 5) Cryogenic fuels are stored at
 - a) room temperature
 - b) low temperature
 - c) very low temperature
 - d) very high temperature
- 6) The pigment responsible for browning of apple is
 - a) hydrated iron II oxide
 - b) melanin
 - c) starch
 - d) Ozone
- 7) Aerated water contains
 - a) air
 - b) oxygen
 - c) carbon dioxide
 - d) nitrogen
- 8) In all atoms of an element
 - a) the atomic and mass number are same
 - b) the mass number is same and the atomic number is different
 - c) the atomic number is same and the mass number is different
 - d) both atomic and mass numbers may vary
- 9) is the coal of superior quality
 - a) peat
 - b) lignite
 - c) Bituminous
 - d) Anthracite
- 10) The process of air passing in and out the lungs is called
 - a) Inhalation
 - b) exhalation
 - c) breathing
 - d) None of these
- 11) Which one of the following organisms lack muscles and skeleton for movement?
 - a) Dog
 - b) Snail
 - c) Earth worm
 - d) Human being
- 12) The Red Data book gives a list of
 - a) endemic species
 - b) extinct species
 - c) natural species
 - d) none of these

II. Fill in the blanks:

5x1=5

- 13) If the angle of incidence is 45° , then the angle of reflection is
- 14) High frequency sounds that cannot be heard by you are called
- 15) Water contains and element
- 16) Dry ice is used as a
- 17) function is used to calculate the total of a given set of values.

III. State true or false. If false correct the statement:

5x1=5

- 18) In parallel circuit, current remains the same in all components
- 19) Chicken pox is a communicable disease
- 20) Binomial name should contain more than two words
- 21) Aqueous humour plays an important role in maintaining the shape of the eye
- 22) Skull in humans consists of 22 bones.

Kindly Send me Your Key Answer to Our email id - Padasalai.net@gmail.com

IV. Match the following:

- | | | | | |
|--------------------------|---|------------------|---|-------|
| 23) a) Universal solvent | - | Water pollutant | • | 5x1=5 |
| b) Hard water | - | Kills germs | | |
| c) Boiling | - | Ozonisation | | |
| d) Sterilization | - | Water | | |
| e) Sewage | - | Stomach ailments | | |

V. Answer any 10 of the following: Q.No 35 is compulsory.**10x2=20**

- 24) Mention any three ways of minimising friction.
 25) Give any two applications of a concave and convex mirror
 26) What is earthing?
 27) What are celestial objects?
 28) Write the symbols for the following elements
 a) Oxygen b) Gold c) calcium d) Cadmium e) Iron
 29) What is global warming?
 30) Write the properties of anode rays
 31) Distinguish between octane number and cetane number
 32) Write any two economic importance of fungi
 33) Why our backbone is slightly movable joint?
 34) What is cell address?
 35) Ruthvik and Ruha hear a gunshot 2 second after it is fired. How far away from the gun they are standing?
 [speed of sound in air is equal to 330 ms^{-1}]

8x4=32**VI. Answer any 8 of the following:**

- 36) Mention any three ways of minimising friction
 37) Explain the working of thermos flask.
 38) List out the uses of magnets.
 39) Tabulate the differences between metals and non-metals
 40) Write the skeleton equation for the following word equation and then balance them
 a) Carbon + Oxygen → Carbon dioxide
 b) Phosphorous + Chlorine → Phosphorous pentachloride
 c) Sulphur + Oxygen → Sulphur dioxide
 d) Magnesium + hydrogenchloride → Magnesium chloride + Hydrogen
 41) a) Mention the advantages of natural gas
 b) **Fill in the blanks.**
 i) The term petroleum means
 ii) An example for fossil fuel is
 42) Write the names of medicinal plants and explain their uses.
 43) Differentiate between inhalation and exhalation
 44) a) Define ploughing b) What is green manure?
 45) What is endangered species? Give two examples.

3x7=21**VII. Answer all the questions in detail.**

- 46) a) List out the base quantities with their units
(OR)
 b) What steps should be taken to reduce the effect of noise pollution?
 47) a) Explain the environmental effects of chemical reactions.
(OR)
 b) What are the uses of acids?
 48) a) Write a short note on bacteria and its structure
(OR)
 b) Explain the nutritional needs of adolescence in brief.