



## SCIENCE - Model Paper 01

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Kalika Chetharika & Textbook Based

Marks : 40

I. Four Alternatives are given for each question, Choose the most appropriate answer

20 x 1 = 20 Marks

- Binary fission is observed in
  - Hydra
  - yeast
  - Amoeba
  - human being
- The burning of LPG is an example of
  - rapid combustion
  - spontaneous combustion
  - slow combustion
  - explosion
- In case of reflection of light, the angle of incidence (i) and the angle of reflection (r) are related as
  - $i = r$
  - $i < r$
  - $i > r$
  - no definite relation
- Which of the following does not belong to the family of solar system?
  - Planet
  - Galaxy
  - Meteors
  - Comet
- The control centre of all the activities of a cell is
  - nucleus
  - nucleoplasm
  - cytoplasm
  - organelles
- Which instrument is used to measure earthquake?
  - Richter scale
  - Seismograph
  - Polygraph
  - None of these
- The waves produced on the earth's surface is called
  - seismic wave
  - longitudinal wave
  - Micro wave
  - Radio wave
- Which one of the following is not a part of female reproductive organs?
  - Uterus
  - Ovary
  - Oviduct
  - Penis

9. Which of the following does not conduct electricity?
 

|                      |                           |
|----------------------|---------------------------|
| (a) Sugar solution   | (c) Lemon juice solution  |
| (b) Vinegar solution | (d) Caustic soda solution |
10. Which gas helps in the process of combustion?
 

|                  |                  |
|------------------|------------------|
| (a) Cooking gas  | (c) Oxygen gas   |
| (b) Nitrogen gas | (d) Producer gas |
11. What radiations are absorbed by CO<sub>2</sub>?
 

|                         |                            |
|-------------------------|----------------------------|
| (a) Ultrared radiations | (c) Ultraviolet radiations |
| (b) Infrared radiations | (d) None of these          |
12. Which of the following is a good conductor?
 

|           |             |
|-----------|-------------|
| (a) Brick | (c) Plastic |
| (b) Steel | (d) Cotton  |
13. A smooth shining surface, which rebounds the light back in same or in different direction, is called
 

|              |                         |
|--------------|-------------------------|
| (a) a mirror | (c) reflection of light |
| (b) a lens   | (d) point of incidence  |
14. Which gas is the major pollutant of air?
 

|                     |             |
|---------------------|-------------|
| (a) Carbon monoxide | (c) Oxygen  |
| (b) Nitrogen        | (d) Propane |
15. The organism containing only a single cell is called
 

|                            |                  |
|----------------------------|------------------|
| (a) unicellular organism   | (c) organelle    |
| (b) multicellular organism | (d) all of these |
16. The solid or liquid particles dispersed in the air are called
 

|            |                  |
|------------|------------------|
| (a) oxides | (c) hydrocarbons |
| (b) acids  | (d) aerosols     |
17. Which planet has the largest number of satellites?
 

|             |             |
|-------------|-------------|
| (a) Jupiter | (c) Mercury |
| (b) Saturn  | (d) Mars    |
18. The coloured organelles which are found in plants only are
 

|                 |              |
|-----------------|--------------|
| (a) chlorophyll | (c) vacuoles |
| (b) plastids    | (d) WBC      |
19. Which of the following is a bad conductor of electricity?
 

|                     |                     |
|---------------------|---------------------|
| (a) Distilled water | (c) Sulphuric acid  |
| (b) Silver nitrate  | (d) Copper sulphate |
20. Name the type of mirror used as a backview mirror.
 

|                    |                   |
|--------------------|-------------------|
| (a) Plane mirror   | (c) Convex mirror |
| (b) Concave mirror | (d) Any of these  |

## II. Answer the following Questions

**5 x 2 = 10 Marks**

21. How water controls the burning of fire? Explain
22. Identify and write types of asexual reproductive types of Budding, binary fission, multiple fission (hydra, amoeba, plasmodium)
23. Copper wire is more commonly used in power consumption than iron wire. Why?

24. Divide the following names into the inner planets and outer planets of the solar system. Mars, Neptune, Jupiter, Mercury, Venus, Saturn, Uranus and Earth.
25. Write the differences between the real and inverted images

### III. Answer the following Questions

**2 x 3 = 06 Marks**

26. A lot of dry leaves are huddled in the school garden and some are burned every day. If not, what can be done to dispose of dry leaves in an environmental friendly way?
27. Write diagrams of Male reproductive system

### IV. Answer the following Questions

**1 x 4 = 04 Marks**

28. Categorize the following items as solid, liquid and gas fuels. Wood, coal, petrol, kerosene, dry dung, diesel, methane, compressed natural gas (CNG), liquefied petroleum gas (LPG), hydrogen. In which state of matter LPG occurs ?

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