**Class: 4(Four) Time: 2 hours**

**Specification Grid**

**Subject: Science F.M. : 50**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.N** | **Units** | **Working Hours** | **Knowledge 30%** | **Understanding**  **30%** | **Application**  **30%** | **Higher Ability10%** | **Grouping weight** | **Units Weight** |
| 1 | Scientific Learning | 10 | Choose questions**(3×1)** | Choose questions**(3×1**) | Choose questions**(3×1**) | Choose questions  **(1×1)** | 12 | 3 |
| 2 | Information & communication | 30 | Very Short questions**(2×1)** | Very Short questions**(2×1)** | Very Short questions  **(2×1)** | 9 |
| 3 | Organism & Environment | 10 | Short questions  **(3×2)** | Short  questions  **(3×2)** | 16 | 3 |
| 4 | Classification of livings Beings | 25 | Short  questions  **(3×2)** | 8 |
| 5 | Life process | 15 | Long questions  **(1×4)** | Long  questions  **(1×4)** | 5 |
| 6 | Matter | 30 | Long  questions  **(1×4)** | Long questions  **(1×4)** | 22 | 10 |
| 7 | Energy in Daily Life | 20 | 6 |
| 8 | The Earth & Space | 20 | 6 |
| **Total** | | 160 | 15 | 15 | 15 | 5 | 50 | 50 |

Number of questions

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **S.N** | **Types of questions** | **Mark Weight** | **Knowledge** | **Understanding** | **Application** | **Hiogher ability** | **Total questions** | **Total Marks** |
| 1 | Choose questions | 1 | 3 | 3 | 3 | 1 | 10 | 10 |
| 2 | Very short questions | 1 | 2 | 2 | 2 |  | 6 | 6 |
| 3 | Short questions | 2 | 3 | 3 | 3 |  | 9 | 18 |
| 4 | Long questions | 4 | 1 | 1 | 1 | 1 | 4 | 16 |
| **Total** | | 8 | 9 | 9 | 9 | 2 | 29 | 50 |

**Specification Grid-2081**

**Class: 4(Four)**

**Subject: Science**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| S.N | Types of questions | Questions should be given | Questions should be done | Weight | Total |
| 1 | Choose the correct alternatives | 10 | 10 | 1 | 10 |
| 2 | Very short questions | 6 | 6 | 1 | 6 |
| 3 | Short questions | 9 | 9 | 2 | 18 |
| 4 | Long questions | 4 | 4 | 4 | 16 |
| **Total** | | 29 | 29 | 8 | 50 |

**First Terminal Examination-2081**

|  |  |  |
| --- | --- | --- |
| **S.N.** | **Units** | **First Terminal examination** |
| 1 | Scientific Learning | 1. Scientific Learning Process 2. Precaution to be taken in Science laboratory |
| 2 | Information & Communication | 1. Communication 2. What is computer |
| 3 | Organism & Environment | 1. Environment |
| 4 | Classification of Living beings | 1. Invertebrates 2. vertebrates |
| 5 | Life Process |  |
| 6 | Matter |  |
| 7 | Energy in daily life |  |
| 8 | The Earth and Space |  |
| **Total working days = 57 days** | | |

**Second Terminal Examination-2081**

|  |  |  |
| --- | --- | --- |
| **S.N.** | **Units** | **Second Terminal examination** |
| 1 | Scientific Learning | * Measurement |
| 2 | Information & Communication |  |
| 3 | Organism & Environment |  |
| 4 | Classification of Living beings |  |
| 5 | Life Process | * Animals Life * Plants Life |
| 6 | Matter | * Water/Water cycle |
| 7 | Energy in daily life | * Energy |
| 8 | The Earth and Space | * The Earth |
| **Total working days = 44 days** | | |

**Third Terminal Examination-2081**

|  |  |  |
| --- | --- | --- |
| **S.N.** | **Units** | **Third Terminal examination** |
| 1 | Scientific Learning |  |
| 2 | Information & Communication | * Paint software |
| 3 | Organism & Environment | * Interrelationship between organisms and environment |
| 4 | Classification of Living beings | * Plant around us |
| 5 | Life Process |  |
| 6 | Matter | * Matter * Air |
| 7 | Energy in daily life | * Electrical energy |
| 8 | The Earth and Space | * Weather |
| **Total working days = 55 days** | | |

**Annual Examination-2081**

**………… Terminal Examination-2081**

|  |  |  |
| --- | --- | --- |
| **S.N.** | **Units** | **Annual examination** |
| 1 | Scientific Learning |  |
| 2 | Information & Communication | * Internet |
| 3 | Organism & Environment |  |
| 4 | Classification of Living beings |  |
| 5 | Life Process | * Life cycle of Butterfly |
| 6 | Matter | * Rock |
| 7 | Energy in daily life | * Magnetic and non-magnetic subtances |
| 8 | The Earth and Space | * Natural disasters |
| **Total working days =44 days** | | |

**First Terminal Examination-2081**

**Class-4(Four) F.M:50**

**Subject- Science Time: 2 hours**

**Group-A**

1. **Choose the best answer. 10×1=10**
2. Which of the following is not component of computer?

i)Mouse ii) Headphone iii) Monitor iv) CPU

1. Which of the following is the fastest means of communication?

i)Letter ii)Newspapper iii) SMS iv) Public meeting

1. What is the unit of mass?

i)Second ii) Metre iii)kilogram iv) Litre

1. Which of the following insects is useful for pollination?

i)Honey bee ii) Mosquito iii) Housefly iv) Cockroach

1. Which animal is that live on land?

i)Fish ii) Tiger iii) Octopus iv)jellyfish

1. Which Scientists invent lightbulb for the first time ?

i)James Watt ii) Thomas Alva Edison iii) Newton iv) Guglilmo marconi

1. Which Animals do have backbone?

i) Tiger ii) Housefly iii) Ant iv) Warms

1. Which of the following is herbivores animals?

i)Tiger ii) Dog iii) Lion iv) Sheep

1. Which gas is used by plant for preparing thir food ?

i) Oxygn ii) Carbon dioxide iii) Hydrogen iv) Argon

1. Which of the following animal is not a mammal?

i)Bat ii) Crow iii)Goat iv) Pig

1. **Very Short questions 6×1=6**
2. What is vertebrates?
3. What is air?
4. What is cyclone?
5. What is Hard water?
6. What is Communication?
7. What is aquatic animals ?

**(3) Short questions 9×2=18**

1. What is input devices?
2. What is scientific Learning ?
3. Name the two group of Invertebrates?
4. What is One-way communications?
5. What is environment ?
6. What is egg laying animals?
7. Why is Observation important in learning science?
8. Why Is earthworms important for animals?
9. What is E-Mail?

**(4) Long questions 4×4=16**

1. Write any four importance of observation?
2. List any Four Factors that affect plants and animals ?
3. Write any four advantages of Communication?
4. What is computer,Write any four parts of computer?

**Class-4(Four) F.M:50**

**Second Terminal Examination-2081**

**Subject- Science Time: 2 hours**

**Group-A**

1. **Choose the correct alternatives.**
2. We can\_\_\_\_\_\_\_\_ colour of Chemicals with our eyes.

i)Taste ii) Touch iii) See iv)hold

1. Which measuring instrument is used to measure the length of cloth?

i)Metre rod ii) Beam balance iii) Pathi iv) Hand

1. Which of the following is a means of mass communtication?

i)Letters ii) Cinema iii) E-Mail iv) Telephone

1. Which of the following is an input device?

i)Monitor ii) Keyboard iii) Printer iv)Speaker

1. What is the process of giving birth to young ones by living things called?

i)Respiration ii) Digestion iii) Reproduce iv)Excretion

1. What is used to rotate the turbine in villages?

i)Heat ii) Water iii) Light iv) Sunlight

1. Non-green plants,anmals and decomposers cannot prepare their own food and they are called?

i) Autotrophs ii) Carnivores iii) Herbivores iv) Heterotophs

1. The change of gas into liquid by cooling is called?

i)Condenstaion ii) Sublimation iii)Evaporation iv) Distillation

1. Which of the following is an example of renewable ?

i) Firewood ii) Hydroelectricity iii)Coal iv)Natural gas

1. What is the part of earth covered by water called?

i)Lithospher ii) troposphere iii) Hydrosphere iv) Atmosphere

**(2)Very Short questions**

1. What is Measurement?
2. Write the full-form of CPU?
3. What is Environment?
4. Define Reproduction?
5. What are the three states of matter?
6. What is aquatic hydrosphere?

**(3) Short questions**

1. Draw Schematic figures of :

i)Bunsen burner ii) Cronical Flask

1. Write any two application of a computer in our daily life ?
2. Define Photosynthesis?
3. Write any four characteristics features of amphibians?
4. Write two differences between autotrophs and heterophs ?
5. Ponds of water seems to be dried up in summer,why?
6. Why are the different forms of energy?
7. Different between Lithosphere and Hydroshpere?

**(4) Long questions**

1. Write any two differences between private communication and public communication?
2. Draw a neatly and label the life cycle of butterfly ?
3. What is matter?write it’s different states with one example each?
4. What is energy saving/ Write any three methods of saving energy?

**Class: 4(Four) F.M:50**

**Third Terminal Examination-2081**

**Subject- Science Time: 2 hours**

**Group-A**

**Attempt all questions**

1. **Choose of the correct alternatives**
2. Which of the following is the reproductive organ of the plant ?

i)Leaf ii)Flower iii)Root iv)Stem

1. What is the unit of mass?

i)Second ii) Radio iii)Kilogram iv) Metre

1. Which of the following insects is useful for pollination?

i)housefly ii) Mosquito iii) Honeybee iv) Cockroach

1. Which is the two-way communtication?

i)letter ii)Radio iii) Telephone iv)Cinema

1. The earth’s surface covered by water is \_\_\_\_\_\_\_\_\_\_ .

i)95% ii) 70% iii) 35% iv)20%

1. What is the baby of fish called is \_\_\_\_\_\_\_\_\_\_ .

i)Fry ii) Sheep iii)Calf iv) Lamb

1. The ani9mals which donot have backbone are called \_\_\_\_\_\_\_\_\_ .

i) Insects ii) Invertebrates iii) Birds iv) Vertebrates

1. Liquid and gases are called \_\_\_\_\_\_\_\_\_\_\_\_\_.

i)Solid ii) Fluids iii)Matter iv)volume

1. The changing of solid into liquid by heating are called\_\_\_\_\_\_\_\_\_\_ .

i) Melting ii) Evaporation iii)freezing iv)Cooling

1. Living beings need air to \_\_\_\_\_\_\_\_\_\_.

i)Breathe ii) Bath iii) Energy iv) Excretion

**(2)Very Short questions**

1. What is the shape of earth?
2. How many states of matter are there?
3. What is Air?
4. How many types of plants? In size.
5. What is hardware?
6. Write means of personal communication?

**(3) Short questions**

1. Write two main sources of energy?
2. What is matter ?
3. What are vertebrates ?
4. Write any four sources of heat energy?
5. Goat is a herbivores animal .Why?
6. What are aquatic plants ?
7. What is communication?
8. Write any two characterstics features of fishes?

**(4) Long questions**

1. What is earth? Why are living organisms found only on earth, write two points.
2. What Is energy? Write ay two methods of saving energy .
3. Differentiate between input device and Output device.
4. Draw a full page diagram of plant showing it’s parts?

**Class – 4 (Four) F.M:50**

**Annual Examination-2081**

**………… Terminal Examination-2081**

**Subject- Science Time: 2 hours**

**Group-A**

1. **Choose of the correct alternatives.**
2. What are the animals that live in water called?

i)Land animals ii)Aquatic animals iii) Arial animals iv)Amphibians

1. What is the process of making food by plants called ?

i)Excretion ii) Reproduction iii)Photosynthesis iv) Breathing

1. Which of the following is an example of natural disaster ?

i)Sea ii) Stream iii) flood iv) river

1. Which gas is used for put off fire ?

i)Carbon dioxide ii)Oxygen iii) Nitrogen iv)Hydrogen

1. Which of the following is considered as model of the earth?

i)Ball ii) globe iii) Land iv)Mountain

1. Which of the follo0wing is not a magnetic material?

i)Iron nail ii) Paper iii)Screw iv) Nickel

1. Which of the following is not an example of renewable?

i) Coal ii) Petrol iii) Firewood iv) Disel

1. Which of the following is not an example of matter ?

i)Light ii) Water iii)Air iv)Wood

1. What is the process of taking in oxygen and giving out carbon dioxide called?

i) Excretion ii)Breathing iii) Reproduction iv) Digestion

1. Which of the following is an example of one-way communication?

i)Radio ii) Mobile iii) Telephone iv) Facebook page

**(2)Very Short questions**

1. What is Matter?
2. What is communication?
3. What is Amphibia?
4. What is wind ?
5. What is the main source of energy?
6. Life is possible only on the earth. Write reason for it.

**(3) Short questions**

1. Draw Schematic figures of breaker and funnel?
2. Write an example of output and input devices?
3. Write any two uses of electrical energy ?
4. Write name of main parts of complete flowers?
5. Define reproduction and Excretion?
6. Write four stages of life cycle of butterfly.
7. Write any two factors that cuase change in state of matter?
8. Write any two characterstics of magnet?
9. Write any two advantages of a mobile phone?

**(4) Long questions**

1. What is internet? Write any three ways for the proper use of internet.
2. What Is reproductive part of a plant? Draw a neat and labeled diagram of a complete flower.
3. What is energy ? Write any three method of saving energy.
4. Define :
5. Freezing
6. Condensation
7. Evaporation
8. melting

Subect Teacher

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