

Specification Grid

Class: 4(Four)

Time: 2 hours

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)	Short questions (3×2)		16	3
4	Classification of livings Beings	25				8		
5	Life process	15	Long questions (1×4)	Long questions (1×4)	Long questions (1×4)	Long questions (1×4)		22
6	Matter	30					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	Higher 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
<u>Total</u>		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
<u>Total</u>		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	3. Communication 4. What is computer
3	Organism & Environment	5. Environment
4	Classification of Living beings	6. Invertebrates 7. vertebrates
5	Life Process	
6	Matter	
7	Energy in daily life	
8	The Earth and Space	
<u>Total working days = 57 days</u>		

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
<u>Total working days = 44 days</u>		

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
<u>Total working days = 55 days</u>		

Annual 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 substances
8	The Earth and Space	• Natural disasters
<u>Total working days =44 days</u>		

First Terminal Examination-2081

Class-4(Four)
Subject- Science

F.M:50
Time: 2 hours

Group-A

(1) Choose the best answer.

10×1=10

- a) Which of the following is not component of computer?
i) Mouse ii) Headphone iii) Monitor iv) CPU
- b) Which of the following is the fastest means of communication?
i) Letter ii) Newspaper iii) SMS iv) Public meeting
- c) What is the unit of mass?
i) Second ii) Metre iii) kilogram iv) Litre
- d) Which of the following insects is useful for pollination?
i) Honey bee ii) Mosquito iii) Housefly iv) Cockroach
- e) Which animal is that live on land?
i) Fish ii) Tiger iii) Octopus iv) jellyfish
- f) Which Scientists invent lightbulb for the first time ?
i) James Watt ii) Thomas Alva Edison iii) Newton iv) Guglielmo marconi
- g) Which Animals do have backbone?
i) Tiger ii) Housefly iii) Ant iv) Worms
- h) Which of the following is herbivores animals?
i) Tiger ii) Dog iii) Lion iv) Sheep
- i) Which gas is used by plant for preparing their food ?
i) Oxygen ii) Carbon dioxide iii) Hydrogen iv) Argon
- j) Which of the following animal is not a mammal?
i) Bat ii) Crow iii) Goat iv) Pig

(2) Very Short questions

6×1=6

- a) What is vertebrates?
b) What is air?
c) What is cyclone?
d) What is Hard water?
e) What is Communication?

f) What is aquatic animals ?

(3) Short questions

9×2=18

- a) What is input devices?
- b) What is scientific Learning ?
- c) Name the two group of Invertebrates?
- d) What is One-way communications?
- e) What is environment ?
- f) What is egg laying animals?
- g) Why is Observation important in learning science?
- h) Why Is earthworms important for animals?
- i) What is E-Mail?

(4) Long questions

4×4=16

- a) Write any four importance of observation?
- b) List any Four Factors that affect plants and animals ?
- c) Write any four advantages of Communication?
- d) What is computer, Write any four parts of computer?

Second Terminal Examination-2081

Class-4(Four)
Subject- Science

F.M:50
Time: 2 hours

Group-A

(3) Choose the correct alternatives.

- a) We can_____ colour of Chemicals with our eyes.
i)Taste ii) Touch iii) See iv)hold
- b) Which measuring instrument is used to measure the length of cloth?
i)Metre rod ii) Beam balance iii) Pathi iv) Hand
- c) Which of the following is a means of mass communication?
i)Letters ii) Cinema iii) E-Mail iv) Telephone
- d) Which of the following is an input device?
i)Monitor ii) Keyboard iii) Printer iv)Speaker
- e) What is the process of giving birth to young ones by living things called?
i)Respiration ii) Digestion iii) Reproduce iv)Excretion
- f) What is used to rotate the turbine in villages?
i)Heat ii) Water iii) Light iv) Sunlight
- g) Non-green plants,animals and decomposers cannot prepare their own food and they are called?
i) Autotrophs ii) Carnivores iii) Herbivores iv) Heterotrophs
- h) The change of gas into liquid by cooling is called?
i)Condensation ii) Sublimation iii)Evaporation iv) Distillation
- i) Which of the following is an example of renewable ?
i) Firewood ii) Hydroelectricity iii)Coal iv)Natural gas
- j) What is the part of earth covered by water called?
i)Lithosphere ii) troposphere iii) Hydrosphere iv) Atmosphere

(2)Very Short questions

- a) What is Measurement?
- b) Write the full-form of CPU?
- c) What is Environment?
- d) Define Reproduction?
- e) What are the three states of matter?

f) What is aquatic hydrosphere?

(3) Short questions

- a) Draw Schematic figures of :
 - i) Bunsen burner ii) Conical Flask
- b) Write any two applications of a computer in our daily life ?
- c) Define Photosynthesis?
- d) Write any four characteristic features of amphibians?
- e) Write two differences between autotrophs and heterotrophs ?
- f) Ponds of water seem to be dried up in summer, why?
- g) Why are there different forms of energy?
- h) Difference between Lithosphere and Hydrosphere?

(4) Long questions

- a) Write any two differences between private communication and public communication?
- b) Draw a neat and label the life cycle of butterfly ?
- c) What is matter? Write its different states with one example each?
- d) What is energy saving? Write any three methods of saving energy?

Third Terminal Examination-2081

Class: 4(Four)
Subject- Science

F.M:50
Time: 2 hours

Group-A

Attempt all questions

(1) Choose of the correct alternatives

- a) Which of the following is the reproductive organ of the plant ?
i)Leaf ii)Flower iii)Root iv)Stem
- b) What is the unit of mass?
i)Second ii) Radio iii)Kilogram iv) Metre
- c) Which of the following insects is useful for pollination?
i)housefly ii) Mosquito iii) Honeybee iv) Cockroach
- d) Which is the two-way communication?
i)letter ii)Radio iii) Telephone iv)Cinema
- e) The earth's surface covered by water is _____.
i)95% ii) 70% iii) 35% iv)20%
- f) What is the baby of fish called is _____.
i)Fry ii) Sheep iii)Calf iv) Lamb
- g) The animals which do not have backbone are called _____.
i) Insects ii) Invertebrates iii) Birds iv) Vertebrates
- h) Liquid and gases are called _____.
i)Solid ii) Fluids iii)Matter iv)volume
- i) The changing of solid into liquid by heating are called _____.
i) Melting ii) Evaporation iii)freezing iv)Cooling
- j) Living beings need air to _____.
i)Breathe ii) Bath iii) Energy iv) Excretion

(2)Very Short questions

- a) What is the shape of earth?
- b) How many states of matter are there?
- c) What is Air?
- d) How many types of plants? In size.
- e) What is hardware?

- f) Write means of personal communication?

(3) Short questions

- a) Write two main sources of energy?
- b) What is matter ?
- c) What are vertebrates ?
- d) Write any four sources of heat energy?
- e) Goat is a herbivores animal .Why?
- f) What are aquatic plants ?
- g) What is communication?
- h) Write any two characterstics features of fishes?

(4) Long questions

- a) What is earth? Why are living organisms found only on earth, write two points.
- b) What Is energy? Write ay two methods of saving energy .
- c) Differentiate between input device and Output device.
- d) Draw a full page diagram of plant showing it's parts?

Annual Examination-2081

Class – 4 (Four)

F.M:50

Subject- Science

Time: 2 hours

Group-A

(1) Choose the correct alternatives.

- a) What are the animals that live in water called?
i) Land animals ii) Aquatic animals iii) Aerial animals iv) Amphibians
- b) What is the process of making food by plants called ?
i) Excretion ii) Reproduction iii) Photosynthesis iv) Breathing
- c) Which of the following is an example of natural disaster ?
i) Sea ii) Stream iii) flood iv) river
- d) Which gas is used for put off fire ?
i) Carbon dioxide ii) Oxygen iii) Nitrogen iv) Hydrogen
- e) Which of the following is considered as model of the earth?
i) Ball ii) globe iii) Land iv) Mountain
- f) Which of the following is not a magnetic material?
i) Iron nail ii) Paper iii) Screw iv) Nickel
- g) Which of the following is not an example of renewable?
i) Coal ii) Petrol iii) Firewood iv) Diesel
- h) Which of the following is not an example of matter ?
i) Light ii) Water iii) Air iv) Wood
- i) What is the process of taking in oxygen and giving out carbon dioxide called?
i) Excretion ii) Breathing iii) Reproduction iv) Digestion
- j) Which of the following is an example of one-way communication?
i) Radio ii) Mobile iii) Telephone iv) Facebook page

(2) Very Short questions

- a) What is Matter?
- b) What is communication?
- c) What is Amphibia?
- d) What is wind ?
- e) What is the main source of energy?

- f) Life is possible only on the earth. Write reason for it.

(3) Short questions

- a) Draw Schematic figures of breaker and funnel?
- b) Write an example of output and input devices?
- c) Write any two uses of electrical energy ?
- d) Write name of main parts of complete flowers?
- e) Define reproduction and Excretion?
- f) Write four stages of life cycle of butterfly.
- g) Write any two factors that cause change in state of matter?
- h) Write any two characteristics of magnet?
- i) Write any two advantages of a mobile phone?

(4) Long questions

- a) What is internet? Write any three ways for the proper use of internet.
- b) What is reproductive part of a plant? Draw a neat and labeled diagram of a complete flower.
- c) What is energy ? Write any three methods of saving energy.
- d) Define :
 - i. Freezing
 - ii. Condensation
 - iii. Evaporation
 - iv. melting

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