SPECIFICATION GRID 2081

First Term Exam-2081

Class: 6 **Subject: Science & Technology** **F.M. 50** **Time: 2 Hr**

S.N	Unit	Working hour	Group wise marks	Unit wise marks	K 20%	U 30%	A 30%	H.A 20%
1	Scientific learning	10	25	13 ± 2	MCQ (2x1) VS (2x1) SQ (1x2) LQ (1x4)	MCQ (3x1) VS (2x1) SQ (3x2) LQ (1x4)	MCQ (3x1) VS (2x1) SQ (3x2) LQ (1x4)	MCQ (2x1) VS (2x1) SQ (1x2) LQ (1x4)
2	Organism and their structure	15		12 ± 2				
3	Matter	15	13	13 ± 2				
4	Energy in Daily life	20	12	12 ± 2				
	Total	60	50	50	10	15	15	10

K = Knowledge, U = Understanding, A = Application, H.A = Higher Ability

S.N.	Question Type	Marking Schedule	Total
1	Multiple Choice Questions (MCQ)	10x1	10
2	Very Short Questions (VSQ)	8x1	8
3	Short Questions (SQ)	8x2	16
4	Long Questions (LQ)	4x4	16

SPECIFIFCATION GRID – 2081

Second Term Exam – 2081

Class: 6 **Subject: Science & Technology F.M: 50 Time: 2 Hr**

S.N	Unit	Working hour	Group wise marks	Unit wise marks	K 20%	U 30%	A 30%	H.A 20%
1	Scientific learning	10	13	8 ± 2	MCQ (2x1) VSQ (2x1) SQ (1x2) LQ (1x4)	MCQ (3x1) VSQ (2x1) SQ (3x2) LQ (1x4)	MCQ (3x1) VSQ (2x1) SQ (3x2) LQ (1x4)	MCQ (2x1) VSQ (2x1) SQ (1x2) LQ (1x4)
2	ICT	30		5 ± 2				
3	Organism and their structure	15	9	9				
4	Force and Motion	10	12	8 ± 2				
5	Energy in daily life	20		4 ± 2				
6	Matter	15	12	4 ± 2				
7	Materials used in daily life	10		8 ± 2				
8	Earth and space	10	4	4				
	Total	120	50	50	10	15	15	10

K= Knowlege , U= Understanding , A= Application, H.A = Higher Ability

S.N	Question type	Marking schedule	Total
1	Multiple choice question (MCQ)	10x1	10
2	Very short question (VSQ)	8x1	8
3	Short question (SQ)	8x2	16
4	Long question (LQ)	4x4	16

SPECIFICATION GRID 2081

Third Term Exam – 2081

Class : 6 **Subject: Science &Technology** **F.M : 50 Time : 2 Hr**

S.N	Unit	Working Hour	Group wise marks	UNIT WISE MARKS	K 20%	U 30%	A 30%	H.A 20%
1	Scientific learning	10	9	4 ± 2	MCQ (2x1) VSQ (2x1) SQ (1x2) LQ (1x4)	MCQ (3x1) VSQ (2x1) SQ (3x2) LQ (1x4)	MCQ (3x1) VSQ (2x1) SQ (3x2) LQ (1x4)	MCQ (2x1) VSQ (2x1) SQ (1x2) LQ (1x4)
2	ICT	30		5 ± 2				
3	Organism and their structure	15	14	8 ± 2				
4	Biodiversity and Environment	15		6 ± 2				
5	Force and Motion	10	12	4 ± 2				
6	Energy in daily life	20		3 ± 2				
7	ElectricIty and Magnetism	15		5 ± 2				
8	Matter	15	8	4 ± 2				
9	Materials Used In Daily life	10		4 ± 2				
10	Earth and space	10	7	7				
	Total	150	50	50	10	15	15	10

K= knowledge , U= Understanding , A = Application , H.A = Higher Ability

S.N.	Question Type	Marking Schedule	Total
1	Multiple Choice Questions (MCQ)	10x1	10
2	Very Short Questions (VSQ)	8x1	8
3	Short Questions (SQ)	8x2	16
4	Long Questions (LQ)	4x4	16

SPECIFICATION GRID 2080

Final Term Exam – 2080

Class :6 **Subject: Science & Technology** **F.M : 50 Time : 2 Hr**

S.N	Unit	Working Hour	Group wise marks	UNIT WISE MARKS	K 20%	U 30%	A 30%	H.A 20%
1	Scientific learning	10	12	3 ± 2	MCQ (2x1) VSQ (2x1) SQ (1x2) LQ (1x4)	MCQ (3x1) VSQ (2x1) SQ (3x2) LQ (1x4)	MCQ (3x1) VSQ (2x1) SQ (3x2) LQ (1x4)	MCQ (2x1) VSQ (2x1) sQ (1x2) LQ (1x4)
2	ICT	30		9 ± 2				
3	Organism and their structure	15	13	5 ± 2				
4	Biodiversity and Environment	15		5 ± 2				
5	Life Process	10		3 ± 2				
6	Force and Motion	10	14	3 ± 2				
7	Energy in Daily life	20		6 ± 2				
8	Electricity and Magnetism	15		5 ± 2				
9	Matter	15	8	5 ± 2				
10	Materials Used In Daily life	10		3 ± 2				
11	Earth and space	10	3	3				
	Total	160	50	50	10	15	15	10

K= knowledge , U= Understanding , A = Application , H.A = Higher Ability

S.N.	Question Type	Marking Schedule	Total
1	Multiple Choice Questions (MCQ)	10x1	10
2	Very Short Questions (VSQ)	8x1	8
3	Short Questions (SQ)	8x2	16
4	Long Questions (LQ)	4x4	16

First Terminal Examination - 2081

Class - Six F.M = 50

Subject - Science Time - 2 hr. P.M = 20

Group - A 10 x 1 = 10

Choose the correct alternatives.

1. How many seconds are there in a day ?
   I) 86400S ii) 8400s iii) 80600s iv)86000s
2. The SI unit of current is .
   i) watt ii)Newton iii)Ampere iv) Joule
3. The total space occupied by an object is called.
   I) kilogram ii)Volume iii)Area iv) Temperature
4. In which class animals is jaw modified in to beak ?
   i) Pisces ii)Reptilia iii)Amphibia iv)Aves
5. What is the process to lose extra water vapour from plants ?
   i)to store extra food ii)to store extra water iii)to walk easily iv)to respire
6. Which condition has a kinetic energy ?
   i) Compressed spring ii) Flowing water iii) Raised hammer iv) Flying bird
7. How much energy does 2 kg stone at 10 m height has ?
   i) 916 N ii) 619 iii)196 N iv) 491 N
8. When sugar is mixed with water it forms .
   i) solution ii) solvent iii) solute iv) Heterogeneous mixture
9. Ink is a mixture of different coloring substances which is soluble in .
   i) Soft drinks ii) Water iii) Chemicals iv) alcohol
10. Which one of the following is heterogeneous mixture ?
    i) Soda water ii) sugar solution iii) Rice mixed with other grains iv) Air

Group - B 8 x 1 = 8

Very short questions

1. Define scientific learning process.
2. What is measurement ?
3. Define Adaptation.
4. Why goat is a herbivores ?
5. What do you mean by mechanical energy ?
6. What are the examples of kinetic energy ?
7. Define mixture .
8. what do you mean by condensation ?

Group - C 8 x 2 = 16

Short answer questions

1. What are the steps of scientific learning process ?
2. Define the following term Temperature and Area .
3. How do the vines of cucumbers,beans ,gourd climb up the support ?

4. Fish can survive inside water but we cannot why ?
5. What is the kinetic energy of a ball of 200g mass thrown with a speed of 25 m/s ?
6. State the law of conservation of energy .
7. Define alloy. What type of mixture is alloy ?
8. Differentiate between homogenous and heterogeneous mixture.

Group - D long Questions 4 x 4 = 16

1. a. Convert the Following .
   i) 2.5 kg in to gram ii) 5 hour in to second
   b. Draw a neat and clean diagram of simple thermometer.
2. How are gymnosperms and angisperms similar ? Are there any differences between them ? Point out the differences as well.
3. Define energy transformation. How does the transformation of energy occur from the food we eat ?
4. The wheat flour (Maida) mixed with the water and the wheat flour mixed with milk look much similar but the mixture of Maida and water is a heterogeneous mixture and the mixture of Maida and milk is a homogenous mixture. Why ?

THE END

Second Terminal Examination - 2081

Class - Six F.M = 50

Subject - Science Time - 2 hr. P.M = 20

Group - A 10 x 1 = 10

Choose the correct alternatives.

1. What is the SI unit of time ?
   i) Kilogram ii) Second iii)Joule iv) Meter
2. Which of the following is a indoor equipment's?
   i) Computer ii) Tractor iii) Thresher iv) Helicopter
3. IPO stands for .
   i) Information processing processing ii) Input process output
   iii) Ink process output iv) Information processing cycle
4. What is the adaptive features of burrowing animals ?
   a. Hairy tail ii) Thick for coat iii) Large claws I v) Large eyes
5. How does the white fur of polar help ?
   i) Camouflage ii) Crupsis iii) Predation iv) Crawling
6. What is the standard unit of energy ?
   i) Newton ii) Flowing water iii) Raised Hammer iv) Flying Bird
7. The process of not changing its position of a body relative to another body is called
   i) Motion ii) Force iii) Rest iv) Transformation of force
8. When sugar is mixed with water it forms .
   i) Solvent ii) Solution iii) Heterogeneous mixture iv) Solute
9. All the metals except are solid it ordinary temperature.
   i) oxygen ii) Mercury iii) Hydrogen iv) Zinc
10. Which one of the following is the parent material of soil ?
    i) Air ii) Mineral iii) Micro - organism iv) organic matter .

Group - B 8 x 1 = 8

Very short questions

1. What is scientific learning ?
2. List two main components of computer .
3. What are carnivores ?
4. Define simple machine.
5. What is thermometer ?
6. What do you mean by heterogeneous mixture?
7. Write the chemical name of sugar .
8. Define humus in short.

Group - C 8 x 2 = 16

Short answer questions.

1. Define thermal gun. What is it used for ?
2. Write two precautions while using smart phone .
3. Write any two features of herbivores.
4. Draw a neat and clean diagram of
   i) Pulley ii) Nut cracker
5. What is the potential energy in a ball of mass 2 kg it a height of 5 m ?
6. What types of mixture is called homogenous mixture. Write two example.
7. Write two different between metals and non - metals.
8. Define soil. Write different components of it.

Group - D long Questions 4 x 4 = 16

1. What is SI unit? Write three difference between local and standard units.
2. Why are dolphin and whales classified as Mammalia although they live in water as fish ? Mention any four reason.
3. Differentiate between soap and detergent. Write any four chemicals used as food materials with two uses of each.
4. Which method is used to separate different components of ink ? Explain why you have chosen this method.

THE END

Third Terminal Examination - 2081

Class - Six F.M = 50

Subject - Science Time - 2 hr. P.M = 20

Group - A 10 x 1 = 10

Choose the correct alternatives.

1. What is the melting point of ice ?
   i) 100◦C ii) 0 ◦ C iii) 70 ◦ C iv) 10 ◦ C
2. Which of the following is not a modern technology ?
   i) Refrigerator ii) Tractor iii) Fan iv) Okhal
3. Which of the following animals have a constant body temperature.
   i) fish ii) Crocodile iii) Snake iv) Human being
4. Which of the following is not an abiotic factor ?
   i) Soil ii) Carbon iii) Plant iv) Sun
5. What is not true about simple machine ?
   i) Reduces the applied force
   ii) Does more work
   iii) Changes the direction of applied force
   iv) Speeds of the work
6. The property of light that transmits in a straight path is called.
   i) straight transmission ii) Shining propagation iii) Rectilinear propagation
   iv) None of the above
7. Which of the following is a magnetic substances ?
   i) Stone ii)Rubber iii) Mud iv) Iron nail
8. Which of the following is the mixture separating method ?
   I) Evaporation ii) Distillation iii) Chromatography iv) All of the above
9. Which of the following properties is generally not shown by a metal ?
   i) Conduction of heat ii) dull surface iii) conduction of electricity iv) Sonorous nature
10. What is the distance between sun and the earth is ?
    i) 150000 KM ii) 150 million KM iii) 15 million Km iv) 130000KM

Group - B 8 x 1 = 8

Very short questions

1. Define unit .
2. What are complex machine ?
3. Define camouflage.
4. What do you mean by biodiversity ?
5. What is linear motion ?
6. Define electromagnet.
7. What is distillation ?
8. List two examples of non - metals.

Group - C 8 x 2 = 16

Short answer questions

1. Why was SI unit adopted all over the world ?
2. What is the pattern of computer functioning ?
3. List out the features of aquatic animals that help them to live in water.
4. Write two differentiate between rest and motion.
5. Define a shadow . How many types of shadow are there ?

6. What are the two uses of solution in our daily life ?
7. What is stain remover ? When should we use this chemical ?
8. Draw a neat and clean labelled diagram of internal structure of earth.

Group - D long Questions 4 x 4 = 16

1. What are the steps in scientific learning ? Convert one day in to second .
2. What differences and similarities are there between aves and mammals ?
3. Define soil conservation. Mention three methods of soil conservation.
4. What is solar system ? Differentiate between inner planets and outer planets.

THE END