NAVY CHILDREN SCHOOL

TERM WISE SPLIT – UP OF SYLLABUS (2021-22)

SUBJECT: BIOLOGY THEORY (044) **CLASS: XI**

S No.	MONTH	NAME OF THE CHAPTER
		TERM I
1	June - July	Chapter 1- The Living World Chapter 2- Biology Classification Chapter 3- Plant kingdom Chapter 4- Animal kingdom
2	August	Chapter 5- Morphology of flowering plants (Only Inflorescence, Floral Formula & Floral Diagram) Chapter 7- Structural organization in animals (Only Animal Tissues) Chapter 8- Cell: The unit of life
3	September	Chapter 9- Biomolecules HALFYEARLY
4	October	Chapter 10- Cell cycle and cell division
		TERM II
5	November	TERM 1 EXAMINATION THEORY & PRACTICAL Chapter 13- Photosynthesis in higher plants
6	December	Chapter 14- Respiration in plants Chapter 15 - Plant growth and Development Chapter 17- Breathing and exchange of gases
		UT 2 EXAMINATION
7	January	Chapter 18- Body fluids and circulation Chapter 19- Excretory products and their elimination Chapter 20- Locomotion and movement
8	February	Chapter 21- Neural control and Co-ordination Chapter 22- Chemical Co-ordination and Integration
9	March & April	REVISION TERM II EXAMINATION THEORY & PRACTICALS

NAVY CHILDREN SCHOOL

TERM WISE SPLIT – UP OF SYLLABUS (2021-22)

SUBJECT: BIOLOGY PRACTICALS (044) **CLASS: XI**

MONTH	NAME OF THE EXPERIMENTS/ OBSERVATION
	TERM I
	A: List of Experiments
	➢ Study and describe a locally available common flowering plant, from any one family: Solanaceae or Liliaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams). ➢ Study of osmosis by Potato osmometer.
	B. Study/Observation of the following (spotting):
	➢ B.1 Parts of a compound microscope. ➢ B.2 Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one

	monocotyledonous plant, one dicotyledonous plant and one lichen. ➢ B.3 Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liver fluke, Ascaris, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.
	Submission of Practical Record & Investigatory Journal
	TERM 1 PRACTICAL EXAMINATION
	TERM II
	A: List of Experiments
	➢ Separation of plant pigments through paper chromatography. ➢ Study of distribution of stomata in the upper and lower surfaces of leaves. ➢ Study of the rate of respiration in flower buds/leaf tissue and germinating seeds. ➢ Test for presence of sugar in urine. ➢ Test for presence of albumin in urine
	B. Study/Observation of the following (spotting):
	➢ B.4 Tissues and diversity in shape and size of animal cells (squamous epithelium, smooth, skeletal and cardiac muscle fibers and mammalian blood smear) through temporary/permanent slides. ➢ B.5 Mitosis in onion root tip cells and animal cells (grasshopper) from permanent slides.
	Submission of Practical Record & Investigatory Journal
	TERM II PRACTICAL EXAMINATION