

NAVY CHILDREN SCHOOL

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

SUBJECT: BIOLOGY THEORY (044)

CLASS: XII

S No	MONTH	UNIT NAME & NO.	SPLIT-UP
1	April / May	UNIT-6 (Reproduction)	Chapter-2: Sexual Reproduction in Flowering Plants Chapter-3: Human Reproduction Chapter-4: Reproductive Health
2	June/ July	(Unit-VII) Genetics and Evolution	Chapter-5: Principles of Inheritance and Variation Chapter-6: Molecular Basis of Inheritance.
U T 1 EXAMINATION			
3	August	(Unit-VIII) Biology and Human welfare	Chapter-8: Human Health and Diseases Chapter-10: Microbes in Human Welfare
4	September	Unit-IX (Biotechnology)	Chapter-11: Biotechnology - Principles and processes
HALF YEARLY EXAMINATION			
5	October	Unit-IX (Biotechnology)	Chapter-12: Biotechnology and its Application
Submission of Practical Record + Investigatory Project			
6	November	TERM I EXAMINATION THEORY & PRACTICAL	
7	December	(Unit-X) Ecology	Chapter-13: Organisms and Populations
Submission of Practical Record + Investigatory Project			
8	January	(Unit-X) Ecology	Chapter-15: Biodiversity and its Conservation
Submission of Practical Record + Investigatory Project			
	March/ April	TERM II EXAMINATION THEORY & PRACTICAL	

NAVY CHILDREN SCHOOL

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

SUBJECT: BIOLOGY PRACTICALS (044)

CLASS: XII

S No	MONTH	SPLIT UP
		TERM I
		A. List of Experiments
		<ul style="list-style-type: none">➤ Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.➤ Prepare a temporary mount to observe pollen germination.
		B. Study/observation of the following (Spotting)
		<ul style="list-style-type: none">➤ B.1 Flowers adapted to pollination by different agencies (wind, insects, birds).

		<ul style="list-style-type: none"> ➤ B.2 Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice). ➤ B.3 Meiosis in onion bud cell or grasshopper testis through permanent slides. ➤ B.4 T.S. of blastula through permanent slides (Mammalian). ➤ B.5 Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.
		Submission of Practical Record + Investigatory Project
	November	TERM I PRACTICAL EXAMINATION
		TERM II
		A. List of Experiments
		<ul style="list-style-type: none"> ➤ Prepare a temporary mount of onion root tip to study mitosis. ➤ Collect water from two different water bodies around you and study them for pH, clarity and presence of any living organism ➤ Collect and study soil from at least two different sites and study them for texture, moisture content, pH and water holding capacity. Correlate with the kinds of plants found in them.
		B. Study/observation of the following (Spotting)
		<ul style="list-style-type: none"> ➤ B.6 Common disease - causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images. Comment on symptoms of diseases that they cause. ➤ B.7 Two plants and two animals (models/virtual images) found in xeric conditions. Comment upon their morphological adaptations. ➤ B.8 Two plants and two animals (models/virtual images) found in aquatic conditions. Comment upon their morphological adaptations.
		Submission of Practical Record + Investigatory Project
	March/ April	TERM II PRACTICAL EXAMINATION