

**KENDRIYA VIDYALAYA SANGATHAN, KOLKATA REGION**  
**SPLIT - UP SYLLABUS (2017-2018)**  
**CLASS -XII SUBJECT - PHYSICS (THEORY& PRACTICAL)**

MONTH	W. Day	UNIT & CHAPTER	MARKS	PRACTICAL	EXAM (UNIT)
APRIL 2017	23	1.ELECTRO STATICS 2.CURRENT ELECTRICITY	15	1. To determine resistance per cm of a given wire by plotting a graph for potential difference versus current.	
MAY 2017	2	CONT... 2. CURRENT ELECTRICITY		2.To find resistance of a given wire using metre bridge and hence determine the resistivity (specific resistance) of its material	
JUNE 2017	7	CONT... 2. CURRENT ELECTRICITY	16	3. To verify the laws of combination (series) of resistances using a metre bridge. 4. To verify the laws of combination (parallel) of resistances using a metre bridge	
JULY 2017	25	3.MAGNETIC EFFECT OF CURREN & MAGNETISM 4.ELECTRO MAGNETIC INDUCTION		5. To compare the EMF of two given primary cells using potentiometer. 6. To determine the internal resistance of given primary cell using potentiometer. 7. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.	PERIODIC TEST -1 F.M -40 [17 <sup>TH</sup> TO 26 <sup>TH</sup> JULY] UNIT 1 TO 3
AUG 2017	25	4. ALTERNATING CURRENT 5.EMWAVE 6.OPTICS [RAY OPTICS]	17	8. To find the value of $v$ for different values of $u$ in case of a concave mirror and to find the focal length. 9. To find the focal length of a convex mirror, using a convex lens. 10. To find the focal length of a convex lens by plotting graphs between $u$ and $v$ or between $1/u$ and $1/v$ . 11. To find the focal length of a concave lens, using a convex lens.	PERIODIC TEST -2 F.M -40 [18 <sup>TH</sup> TO 26 <sup>TH</sup> AUG] UNIT 4 & 5
SEPT 2017	19	6. WAVE OPTICS 7.DUAL NATURE OF MATTER & RADIATION	10	12. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. 13. To determine refractive index of a glass slab using a travelling microscope. 14. To find refractive index of a liquid by using convex lens and plane mirror.	
OCT 2017	20	8.ATOM &NUCLEI 9.ELECTRONICS	12	15. To draw the I-V characteristic curve for a p-n junction in forward bias and reverse bias. 16. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage.	HALF YEARLY EXAMINATION F.M -70 [20 <sup>TH</sup> TO 31 <sup>ST</sup> OCT] UP TO UNIT 8
NOV 2017	24	10. COMMUNICATION SYSTEM REVISION.....			
DEC 2017			<b>1<sup>ST</sup> PRE BOARD EXAM [FULL SYLLABUS ] 4<sup>TH</sup> DEC., 2017 ONWARD</b>		
JAN 2018			<b>2<sup>ND</sup> PRE BOARD EXAM [FULL SYLLABUS] 11<sup>TH</sup> JAN., 2018 ONWARD</b>		

**NOTE:**

1. ABOVE EXPERMENTS ARE FOR REFERENCE ONLY, TEACHER MAY CHOOSE ALTEAST 15 EXPERIMENTS [WITH A MINIMUM OF 6 FROM EACH SECTION] WHICH HAS TO BE PERFORMED BY STUDENTS & AT LEAST 5 ACTIVITIES [WITH A MINIMUM OF 2 EACH FROM SECTION A AND SECTION B], SHOULD BE DEMONSTRATED BY TEACHER SIMULTANEUOSLY WITH EXPERIMENTS SUBJECT TO AVAILABILITY OF INSTRUMENTS IN THEIR RESPECTIVE LABS.
2. TEACHER MUST ENSURE THAT ONE INVESTIGATORY PROJECT MUST BE SUBMITTED BY STUDENT BEFORE 30<sup>TH</sup> NOV 2017
3. PRACTICAL RECORD COPY MUST BE SUBMITTED BY STUDENT WITHIN ONE WEEK OF COMPLETION OF THE EXPERIMENT& ACTIVITY

**EXAMINATION PATTERN (CLASS-XII)**

EXAM	PERIODIC TEST	HALF YEARLY / PRE-BOARD & AISSCE	PRACTICAL EXAMINATION AISSCE
DURATION	90 MIN	3 HRS	3HRS
PATTERN OF QUESTIONS	3X1=03 (NO OPTION) 2X2=04 (ONE OPTION) 8X3=24 (ONE OPTION) 1X4=04 (VALUE BASED) 1X5=05 (OPTION IN ALL)	5X1=05 (NO OPTION) 5X2=10 (ONE OPTION) 12X3=36 (ONE OPTION) 1X4=04 (VALUE BASED) 3X5=15 (OPTION IN ALL)	1)TWO EXPERIMENTS(ONE FROM EACH SECTION)= 2X8 =16 2) RECORD (EXPT+ACTIVITY) =06 3) INVESTIGATORY PROJECT =03 4)VIVA =05
MARKS	40 MARKS (18 QUESTIONS)	70 MARKS(26 QUESTIONS)	(30 MARKS)

