

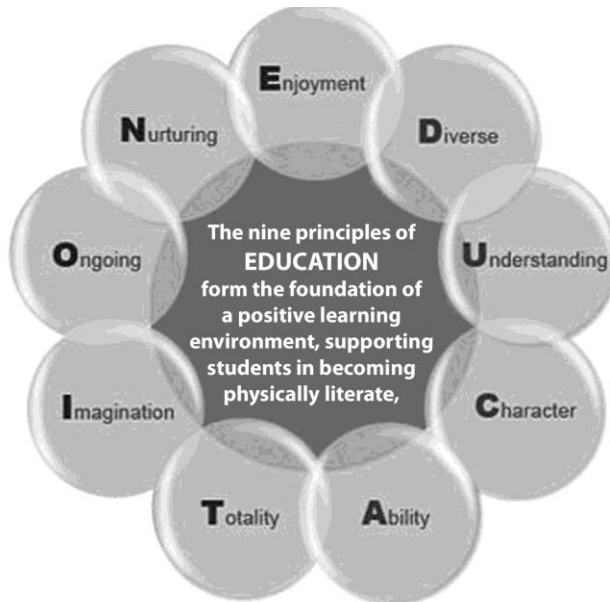


# DAV PUBLIC SCHOOLS

ODISHA ZONE – II

SPLIT UP SYLLABUS FOR THE SESSION - 2018-19

CLASS – XI



Managed By:

DAV College Managing Committee, New Delhi

**DAV PUBLIC SCHOOLS, ODISHA ZONE -II**  
**EXAMINATION RULES**

**STD XI**

1. There will be Three Unit Tests/ Weekly Tests, one Half yearly Examination and one Annual Examination.
2. The Half Yearly & Annual Examinations will carry 100 marks including Theory and Practical /Project work.

**3. Details of Tests/Examinations:-**

Sl.no.	Test / Examination	Tentative Dates
1	Unit Test - I	03.08.18 - 10.08.18
2	Unit Test - II	08.11.18 – 17.11.18
3	Unit Test - III	03.01.19 – 10.01.19
4	Half Yearly Examination	20.09.18 – 03.10.18
5	Annual Examination	By DAV CAE

4. The dates for Tests and Examination have been fixed by the Examination Committee of the Zone after considering all aspects. However, they may change in certain unavoidable circumstances.
5. Minimum 75% attendance is a pre-requisite criterion for promotion to class XII.
6. It is mandatory for a student to appear in all the theory and practical examinations. In case of sickness during tests or examination days, immediate information must be sent through application with medical certificate to the Principal.
7. The performance of a student in different subjects will be reflected in terms of marks as well as Grades (9- Point Scale) in the Report Card.

**9- Point scale**

Grade	A1	A2	B1	B2	C1	C2	D1	D2	E
Marks Range	Top 1/8 <sup>th</sup> of the passed candidates	Next 1/8 <sup>th</sup> of the passed candidates	Next 1/8 <sup>th</sup> of the passed candidates	Next 1/8 <sup>th</sup> of the passed candidates	Next 1/8 <sup>th</sup> of the passed candidates	Next 1/8 <sup>th</sup> of the passed candidates	Next 1/8 <sup>th</sup> of the passed candidates	Next 1/8 <sup>th</sup> of the passed candidates	Failed candidates

8. In order to be declared as having passed the Class XI Examination, a candidate shall obtain 33% marks in all the subjects. The pass mark in each subject of examination shall be 33%. In case of subjects involving practical work, a candidate must obtain 33% marks in theory and 33% in practical separately in addition to 33% marks in aggregate in order to qualify in that subject.
9. A candidate failing in one of the five subjects shall be placed in compartment category in that subject and has to obtain pass mark in that subject in one chance.
10. A student has to pass in the 6<sup>th</sup> subject to continue that subject in Class – XII.
11. The performance of a student in Internal Assessment in the activities i.e. (a) General Studies (b) Work Experience (c) Physical and Health Education, will be assessed by the class teacher by maintaining cumulative records of a student's periodical achievements and progress during the year and will be reflected in terms of Grades (9 Point Scale) in the Report Card.

**DAV PUBLIC SCHOOLS, ODISHA, ZONE-II**

SPLIT-UP OF SYLLABUS 2018-19

SUB: English Core (301)

BOOKS PRESCRIBED:

1: Hornbill: Textbook (NCERT)

2: Snapshots: Supplementary Reader (NCERT) Class-xi

MONTHS	CHAPTERS/TOPICS TO BE TAUGHT	MARK DIST. FOR HALF YEARLY & ANNUAL EXAMINATIONS
JUNE	<b>Reading</b> Unseen Passage for comprehension <b>Writing</b> Notice <b>Grammar</b> Tenses Report writing <b>Literature</b> Hornbill The Portrait of a Lady A Photograph(Poetry)	<b>SECTION-A</b> <b>READING-20MARKS</b> (Two passages including a poem or a stanza. Types of passages- Factual, Discursive, or Literary)  <b>SECTION-B</b> <b>WRITING SKILLS-20MARKS</b>  <b>SECTION-C</b> <b>GRAMMAR-10MARKS</b>
JULY	<b>Reading</b> Note making & Summarizing <b>Writing</b> Advertisement, Article writing <b>Grammar</b> Determiners, Modals <b>Literature</b> Hornbill We're Not Afraid to Die..... The Voice of the Rain (Poetry) <b>Snapshots</b> The Summer of the Beautiful White, Horse	<b>SECTION-D</b> <b>LITERATURE-30 MARKS</b>  <b>ASSESSMENT OF SPEAKING &amp; LISTENING SKILLS - 20 MARKS</b> 1. SPEAKING SKILLS 10 MARKS 2. LISTENING SKILLS 10 MARKS
AUGUST  (WEEKLY TEST- I / UNIT-TEST- I)	<b>Reading</b> Unseen passage for comprehension <b>Writing</b> Business/ Official Letters <b>Grammar</b> Error correction ,Editing task, Re-ordering of sentences <b>Literature</b> Hornbill Discovering Tut: The Saga Continues Laburnum Top (Poetry) <b>Snapshots</b> The Address, Ranga's Marriage	<b>QUESTION PATTERN FOR HYL/ANNUAL</b> <b>SECTION-A (READING) 20 MARKS</b> 1.MCQ 6X1=06 Marks 2.VSA 6X1=06 Marks 3. LA-1 (Note making 80-100 words) 05 Marks 4. SA (Summarizing 80 words)- 03 Marks <b>SECTION-B (WRITING SKILLS) 20 MARKS</b> 1.SA (Notice/Poster/Advertisement- 50 words) - 04 Marks  2.LA-2(Letters based on verbal/visual input , it would include all types of letters- 120-150 words)

<p><b>SEPTEMBER</b></p>	<p><b>Writing</b> - Letters to the Editor, Poster  <b>Grammar</b>- Clauses  <b>Literature</b>  <b>Hornbill</b>-  Landscape of the soul  The Ailing Planet.....  <b>Snapshots</b>  Albert Einstein at School  Listening Skills  Speaking Skills  <b>REVISION</b></p>	<p>- 06 Marks</p> <p>3.VLA (Article/Speech/Report/Narrative 150-200 words) - 10 Marks</p>
<p><b>OCTOBER (WEEKLY TEST-II)</b></p>	<p><b>HALF YEARLY EXAMINATION-2018-19</b></p>	
<p><b>NOVEMBER (UNITTEST-II)</b></p>	<p><b>Reading</b>  Note making &amp; Summarizing  <b>Writing</b>  Job Application  Speech  <b>Grammar</b>  Change of Voice  <b>Literature</b>  <b>Hornbill</b>  The Browning Version  The Adventure  Childhood(Poetry)  <b>Snapshots</b>  Mother's Day</p>	
<p><b>DECEMBER (WEEKLY TEST- III)</b></p>	<p><b>Reading</b>  Unseen passage for comprehension  Note making &amp; Summarizing  <b>Writing</b>  Letter to the School and College authorities  <b>Grammar</b>  Transformation of sentences  <b>Literature</b>  <b>Hornbill</b>  Silk Road  Father to Son(Poetry)  <b>Snapshots</b>  The Ghat of the only World  Birth  The Tale of Melon City(Poetry)</p>	<p><b><u>SECTION-C (GRAMMAR)10 MARKS</u></b>  1.VSA / MCQ  10X1= 10 Marks  <b><u>SECTION-C (LITERATURE) - 30 MARKS</u></b>  1. Three VSA Questions out of Four (Two questions should be from Hornbill) - 1x3=3 Marks  2. Three SA Questions out of Four (Two questions should be from Hornbill) - 3X3=09 Marks  3. One Long Answer Question out of two from Hornbill to test global Comprehension and extrapolation beyond the text (120-150 words) - 6-Marks  4. One Long Answer Question out of two from Snapshots to test global Comprehension and extrapolation beyond the text (120 -150 Words) - 6-Marks  5. One Long Answer Question out of two from Hornbill to test understanding, appreciation, analysis, and interpretation of the characters/events/episodes/incidents (120-150 Words)---- 6- Marks</p>

<b>JANUARY (UNIT TEST-III)</b>	Listening Skills Speaking Skills	<b>ASSESSMENT OF SPEAKING &amp; LISTENING SKILLS - 20 MARKS</b> 1. SPEAKING SKILLS- 10 MARKS 2. LISTENING SKILLS- 10 MARKS
<b>FEBRUARY</b>	<b>REVISION and ANNUAL EXAMINATION-2019</b>	

**N.B.:** Weekly Tests will be held on Mondays.

### SPLIT-UP OF SYLLABUS 2018-19

**CLASS: XI**

**SUB: Chemistry (043)**

**BOOK PRESCRIBED: TEXT BOOK FOR CLASS-XI CHEMISTRY (PART-I&II), NCERT**

**(Unit No. and Details of syllabus according to CBSE syllabus)**

MONTH	CHAPTERS/TOPICS TO BE TAUGHT	CHAPTER WISE WEIGHTAGE		
		HALF YEARLY	ANNUAL	
<b>JUNE</b>	Unit-I Some basic concepts of chemistry		Unit -I	08
<b>JULY</b>	Unit-II Structure of Atom	14	Unit -II	
	Unit-III Classification of elements and periodicity in properties	10	Unit-III	04
<b>AUGUST (WEEKLY TEST-I)</b>	<b>UNIT TEST-I</b>			
	Unit-IV Chemical bonding and Molecular structure	14	Unit-IV Unit-V	20
	Unit-V State of matter(Gases, Liquids and Solids)	12	Unit-VI	
<b>SEPTEMBER</b>	Unit-XIV Environmental chemistry	08	Unit-VII	
	<b>REVISION FOR HALF YEARLY EXAMINATION</b>	<b>Total: 70</b>		
<b>OCTOBER</b>	Unit-VI Thermodynamics			
	Unit-VII Equilibrium			
<b>NOVEMBER (WEEKLY TEST-II)</b>	<b>UNIT TEST-II</b>			
	Unit-VII Equilibrium (Ionic Equilibrium)		Unit-VIII Unit-IX Unit-XI	20
	Unit-VIII Redox reaction			
	Unit-XII Organic Chemistry: Some basic principle and techniques			
<b>DECEMBER (WEEKLY TEST-III)</b>	Unit-XII Organic Chemistry: Some basic principle and techniques			
	Unit-XIII Hydrocarbons		Unit-XII Unit-XIII Unit-XIV	18
	Unit-IX Hydrogen			
<b>JANUARY</b>	<b>UNIT TEST-III</b>			
	Unit-X s-Block elements			
	Unit-XI Some p-Block elements (Gr.13,Gr.14 and Gr.15)			
<b>FEBRUARY</b>	<b>REVISION FOR ANNUAL EXAMINATION</b>		<b>Total- 70</b>	

**N.B.:** The school may conduct either unit tests or weekly tests.

## QUESTION PATTERN

Type of Question(s)	Mark(s) per Question	Total no. of Questions	Total Marks
VSA	1	5	05
SA-I	2	7	14
SA-II	3	12	36
LA	5	3	15
<b>Total:</b>		<b>27</b>	<b>70</b>

**NB.:** There is no overall choice in the paper. However, there is an internal choice in one question of 2marks weightage, one question of 3 marks weightage and all the three questions of 5 marks weightage

## CHEMISTRY (PRACTICAL)

**Max. Marks: - 30**

**60 periods**

**Time: 3 hrs.**

SL NO.	MONTH	DETAILS OF THE EXPERIMENTS TO BE PERFORMED
1	June	▪ Basic laboratory techniques
2	July	▪ Characterisation and purification of chemical substances
3	Aug.	▪ Estimation: using chemical balance, preparation of standard solution of oxalic acid and sodium carbonate, Titration(acid-base)
4	Sept.	<b>HALF YEARLY EXAMINATION</b>
5	Oct.	▪ Experiment based on pH
6	Nov.	▪ Chemical Equilibrium (Any one Experiment)
7	Dec.	▪ Detection of nitrogen, sulphur, chlorine in the organic chemistry
8	Jan	▪ Qualitative analysis: Determination of one cation and one anion in a given salt

**N.B:** Project (Scientific Investigation involving laboratory testing and collecting information from other sources.) Any investigatory project, which involves about 10 periods of work, can be chosen with the approval of the teacher.

## EVALUATION SCHEME FOR PRACTICAL EXAMINATION

SL.NO	EVALUATION SCHEME FOR PRACTICAL EXAMINATION	MARKS
1	Volumetric Analysis	08
2	Salt Analysis	08
3	Content based Experiment	06
4	Project work	04
5	Class record and viva voce	04
<b>Total:</b>		<b>30</b>

**DAV PUBLIC SCHOOLS, ODISHA, ZONE-II**  
**SPLIT-UP OF SYLLABUS 2018-19**

**CLASS: XI**

**SUB: PHYSICS (042)**

**TEXT BOOK PRESCRIBED: Text book for class XI, PHY (Part I & II), NCERT**

MONTH	CHAPTERS/TOPIC TO BE TAUGHT	PERIODIC EXAMINATION (Either of these two)		CHAPTER WISE WEIGHTAGE	
		WEEKLY TEST	UNIT TEST	HALF YEARLY	ANNUAL
JUNE	UNIT-1 : <b>Physical World and Measurement</b> CH-1:Physical World CH-2:Unit and Measurements	Dt.16.07.2018	Dt.10.08.2018	08	03
JULY	UNIT-2 : <b>Kinematics</b> Ch-3:Motion in a straight line CH-4:Motion in a Plane			20	08
AUGUST	UNIT-3 : <b>Laws of Motion</b> CH-5:Laws of Motion	Dt.27.08.2018		20	09
	UNIT-4 : <b>Work, Energy &amp; Power</b> CH-6: Work, Energy & Power			12	06
SEPTEMBER	UNIT-6 : <b>Gravitation</b> CH-8: Gravitation		10	05	
	<b>Revision for HALF YEARLY EXAMINATION</b>			<b>Total:70</b>	
OCTOBER	UNIT-5 : <b>Motion of system of Particles and Rigid body</b> CH-7: System Of Particles and Rotational Motion	Dt.19.11.2018	Dt.09.11.2018		06
NOVEMBER	UNIT-7 : <b>Properties of Bulk Matter</b> CH-9: Mechanical Properties Of solids CH-10: Mechanical Properties Of Fluids CH-11:Thermal Properties Of Matter				08
DECEMBER	UNIT-8 : <b>Thermodynamics</b> CH-12: Thermodynamics				04
	UNIT-9 : <b>Behaviour of perfect Gas &amp; Kinetic theory of gases</b> CH-13:Kinetic Theory UNIT-10: <b>Mechanical waves and Ray Optics</b> CH-14: Oscillation and Waves				04
JANUARY	UNIT-10 : <b>Mechanical waves and Ray Optics</b> CH-14:Oscillation and Waves CH-15:Ray optics			Dt. 05.01.2019	
	<b>REVISION FOR ANNUAL EXAM</b>				
FEBRUARY	<b>REVISION &amp; ANNUAL EXAM</b>	<b>TOTAL</b>			<b>70</b>

## QUESTION PATTERN

TYPE OF QUESTIONS	MARK(S) PER QUESTION	TOTAL NO OF QUESTIONS	TOTAL MARKS
VSA	01	05	05
SA-I	02	07	14
SA-II	03	12	36
LA	05	03	15
	<b>Total:</b>	27	70

## **PRACTICAL SYLLABUS**

### SECTION – A

**(8 Experiments to be performed)**

Sl.No.	Expt.No.	Month	Details of the experiments to performed
1	1	June	1. To measure diameter of a small spherical cylindrical body using Vernier callipers.
2	2	July	2. To measure diameter of a given wire and thickness of a given sheet using screw gauge.
3	3	July	3. To determine volume of an irregular lamina using screw gauge.
4	4	July	4. To determine radius of curvature of a given spherical surface by Spherometer.
5	5	Aug.	5. To determine the mass of two different objects using a beam balance.
6	6	Aug.	6. To find the weight of a given body using Parallelogram law of vectors.
7	7	Aug.	7. Using a simple pendulum, plot L-T and L-T <sup>2</sup> graphs. Hence find the effective length of second's pendulum using appropriate graph.
8	8	Sep.	8. To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.
9.	9		9. To study the relationship between force of limiting friction and normal reaction and to find the co-efficient of friction between a block and a horizontal surface.
10.	10		10. To find the downward force, along an inclined plane, acting on a roller due to Gravitational pull of the earth and study, its relationship with the angle of inclination ( $\theta$ ) by plotting graph between force and $\sin\theta$ .

### **ACTIVITIES: (For the purpose of demonstration only)**

1. To make a paper scale of given least account, e.g. 0.2cm, 0.5cm.
2. To determine mass of a given body using a metre scale by principle of moments.
3. To plot a graph for a given set of data with proper choice of scales and error bars.
4. To measure the force of limiting friction for rolling of a roller on a horizontal plane.
5. To study the given variation in range of a projectile with angle of projection.
6. To study the conservation of energy of a ball rolling down on a inclined plane (using a double inclined plane).
7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.



**SECTION – B**  
**(7 Experiments to be performed)**

Sl.No.	Expt No.	Month	Details of the experiments to be performed
1	1	Oct	1. To determine Young's modulus of elasticity of the material of a given wire.
2	2	Oct	2. To determine the surface tension of water by capillary rise method.
3	3	Nov	3. To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
4	4	Nov	4. To determine specific heat capacity of a given solid by method of mixture.
5	5	Nov	5. a) To study the relation between frequency and length of a given wire under constant tension using Sonometer.
6	6	Dec	b) To study the relation between the length of a given wire and tension for constant frequency using Sonometer.
7	7	Dec	6. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions
8	8		7. To find the value of $v$ for different values of $u$ in case of concave mirror and to find the focal length.
9	9		8. To find the focal length of a convex lens by plotting graph between $U$ and $V$ or between $1/u$ and $1/v$ graph.
			9. To determine the angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
			10. To determine the refractive index of a glass slab using a travelling microscope.

**ACTIVITIES (for the purpose of demonstration only):**

- To observe change of state and plot a cooling curve for molten wax.
- To observe and explain the effect of heating and interpret the observations on a bi-metallic strip.
- To note the change in level of liquid in a container on heating and interpret the observations.
- To study the effect of detergent on surface tension of water by observing capillary rise.
- To study the factors affected the rate of loss of heat of a liquid.
- To study the effect of load on depression of a suitably clamped meter scale loaded at (i) its end (ii) in the middle.
- To observe the decrease in pressure with increase in velocity of a fluid.
- To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
- To study the nature and size of the image formed by a 1) Convex lens 2) Concave mirror, on a screen by using a candle and a screen.
- To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

**N.B.:**

- Weekly Tests** will be held on Mondays.
- Unit Tests** will be conducted as per schedule provided by DAV, Odisha, Zone-II.
- There is no overall choice in the paper. However, there is an internal choice in one question of 2 marks weightage, one question of 3 marks weightage and all the three questions of 5 marks weightage.

- Any of the expt. From Sl. No. 1 to 8 of **SECTION-A** may be replaced by Sl. No. 9 and Sl.No.10 depending upon the suitability of the school.
- Any of the expt. from Sl. No. 1 to 7 of **SECTION-B** may be replaced by Sl. No. 8,9 and 10 depending upon the suitability of the school.

### SPLIT-UP OF SYLLABUS 2018-19

**CLASS: XI**

**SUB: Mathematics (041)**

**BOOKS PRESCRIBED: 1. MATHEMATICS TEXT BOOK FOR CLASS – XI (NCERT)  
2. MATHEMATICS (EXAMPLAR PROBLEMS) (NCERT)**

	MONTH	CHAPTERS/TOPICS TO BE TAUGHT	CHAPTER WISE WEIGHTAGE	
			HALF YEARLY	ANNUAL
<b>U.T. - I</b>	<b>JUNE</b>	Ch – 1 : Sets	15	29
	<b>JULY</b>	Ch – 2 : Relations & Functions	08	
		Ch – 3 : Trigonometric Functions	24	
		Ch – 4: Principle of Mathematical Induction	06	
	<b>AUGUST</b>	Ch – 5 : Complex Numbers and Quadratic Equations	11	37
		Ch – 6 : Linear Inequalities	11	
		Ch – 7: Permutations and Combinations	13	
<b>SEPTEMBER</b>	Ch – 8 : Binomial Theorem	12		
	<b>REVISION FOR HALF YEARLY EXAMINATION</b>		<b>TOTAL: 100</b>	
<b>U.T. - II</b>	<b>OCTOBER</b>	Ch – 9 : Sequences and Series		
		Ch – 10 : Straight Lines		
	<b>NOVEMBER</b>	Ch – 10 : Straight Lines		
		Ch – 11 : Conic Sections		
		Ch – 12 : Introduction to 3-D Geometry		
<b>U.T. - III</b>	<b>DECEMBER</b>	Ch – 13 : Limits and Derivatives		08
		Ch – 14 : Mathematical Reasoning		03
	<b>JANUARY</b>	Ch – 15 : Statistics		10
		Ch – 16 : Probability		
	<b>FEBRUARY</b>	<b>REVISION FOR ANNUAL EXAMINATION</b>		
			<b>Total:</b>	<b>100</b>

### **QUESTION PATTERN**

TYPE OF QUESTION(S)	MARK(S) PER QUESTION	TOTAL NO. OF QUESTIONS	TOTAL MARKS
VSA	1	4	4
SA	2	8	16
LA-I	4	11	44
LA-II	6	6	36
<b>Total:</b>		<b>29</b>	<b>100</b>

### **BLUE PRINT OF QUESTION PAPER- HALF YEARLY EXAMINATION**

Sl. No.	Topic	1 Mark	2 Marks	4 Marks	6 Marks	TOTAL
1	Sets	1	-	2	1	15
2	Relations & Functions	-	2	1	-	08
3	Trigonometric Functions	-	2	2	2	24
4	Principle of Mathematical Induction	-	-	-	1	06
5	Complex Numbers and Quadratic Equations	1	1	2	-	11
6	Linear Inequalities	1	-	1	1	11
7	Permutations and Combinations	1	2	2	-	13
8	Binomial Theorem	-	1	1	1	12
<b>Total:</b>		<b>1×4=4</b>	<b>2×8=16</b>	<b>4×11=44</b>	<b>6×6=36</b>	<b>100</b>

**NB.:** Blue Print of Question Papers for Annual Examination will be as per DAV CAE guidelines.

### **WEIGHTAGE TO LEARNING OBJECTIVES**

SL. NO	Typology of Question	VSA (1 Mark)	SA (2 Marks)	LA -I (2 Marks)	LA -II (2 Marks)	Marks	Weightage
1	Remembering	2	2	2	1	20	20%
2	Understanding	1	3	4	2	35	35%
3	Application	1	-	3	2	25	25%
4	HOTS	-	3	1	-	10	10%
5	Evaluation	-	-	1	1	10	10%
<b>Total</b>		<b>1×4=4</b>	<b>2×8=16</b>	<b>4×11=44</b>	<b>6×6=36</b>	<b>100</b>	<b>100%</b>

## SPLIT-UP OF SYLLABUS 2018-19

CLASS: XI

SUB: BIOLOGY (044)

TEXT BOOK PRESCRIBED:1. Text book for class XI, BIOLOGY, NCERT

2. Comprehensive practical

MONTH	CHAPTERS/TOPIC TO BE TAUGHT	CHAPTER WISE WEIGHTAGE	
		HALF YEARLY	ANNUAL
JUNE	<b>UNIT-I : Diversity in the living world</b> CH-1:The living world CH-2:Biological classification CH-3:Plant kingdom CH-4:Animal kingdom	15	07
JULY (Weekly Test-I)	<b>UNIT-II : Structural organisation in plants and animals</b> CH-5:Morphology of flowering plants CH-6:Anatomy of flowering plants CH-7:Structural Organisation in Animals	22	12
AUGUST (U.T.-I)	<b>UNIT-III : Cell : Structure and functions</b> CH- 8:Cell the unit of life CH-9:Biomolecules CH-10:Cell cycle and cell division	33	15
SEPTEMBER (Weekly Test - II)	<b>Revision for HALF YEARLY EXAMINATION</b>		
		<b>Total:70</b>	
OCTOBER	<b>UNIT-IV : Plant Physiology</b> CH-11: Transport in plant CH-12:Mineral nutrition CH-13: Photosynthesis in plants		18
NOVEMBER (Weekly Test – III/ U.T.-II)	CH-14: Respiration in plants CH-15:Plant growth and development <b>UNIT-V : Human Physiology</b> CH-16: Digestion and absorption CH-17:Breathing and exchange of gases		18
DECEMBER	CH-18 : Body fluids and circulation CH-19:Excretory products and their elimination		
JANUARY (U.T.III)	CH-20: Locomotion and movement CH-21:Neural control and co-ordination CH-22: Chemical co-ordination and integration		
FEBRUARY	<b>REVISION &amp; ANNUAL EXAM</b>	<b>Total</b>	<b>70</b>

### QUESTION PATTERN

TYPE OF QUESTIONS	MARK(S) PER QUESTION	TOTAL NO OF QUESTIONS	TOTAL MARKS
VSA	01	05	05
SA-I	02	07	14
SA-II	03	12	36
LA	05	03	15
<b>Total:</b>		27	70

### Blueprint (Half-yearly)

Sl no	Contents unit/forms of questions	VSA(1)	SA-1(2)	SA-2(3)	LA(5)	Total marks
1	Unit I : Diversity in living world	1x1=1 Ch-3	--	3x3=9 Ch2,3,4	1x5=5 Ch-3	15
2	Unit-II Structural organisation in plants and animals	1x2=2 Ch-6,7	2x3=6 Ch-5,6	3x3=9 Ch-5,6,7	1x5=5 Ch-7	22
3	Unit-III Structure & function	1x2=2 Ch8,9	2x4=8 Ch-8,9,10	3x6=18 Ch-8,9,10	1x5=5 Ch-9	33
Total		1x5=5	2x7=14	3x12=36	5 x3=15	70

### Weightage to content / subject units

Unit	Title	Marks
I	Diversity in living world	07
II	Structural organisations in plants and animals	12
III	Cell : Structure and functions	15
IV	Plant Physiology	18
V	Animal physiology	18
Total :		70

### **PRACTICAL SYLLABUS**

**Subject : Biology Practical,**

**Std – XI**

Max. Mark : 30

Time : 3 Hrs

60 periods

Section	Experiment	Mark
A	One major experiment. Part - A (Expt. No. 1, 3, 7, 8)	5
	One minor experiment. Part - A (Expt. No. 6, 9, 10, 11, 12, 13)	4
B	Slide preparation. Part - A (Expt. No. 2, 4, 5),	5
C	Spotting. Part – B	7
D	Practical record + viva-voice	4
E	Project + viva-voice	5
<b>Total</b>		<b>30</b>

### **Biology Practical (Class- XI)**

Sl.No .	Month	Details of the experiments to performed	Details of the spottings to performed
1	June	1. Study and describe three locally available common flowering plants one each of the families Solanaceae, Fabaceae, Liliaceae	--
2	July	2.Preparation and study of T.S of dicot and monocot roots and stem	1. Study of plant specimens, slides/models of Bacteria, Oscillatoria, Spirogyra, Rhizopus, Mushroom, Yeast, Liver worts, Moss, Pine, Fern, Lichen, One monocot and one dicot plant.
3	Aug	3.Study osmosis by potato osmometer 4. Study of plasmolysis in epidermal peels	2. Study of animal specimens /slides /models of Amoeba, Hydra , Liverfluke ,Ascaris , Leech , earthworm , Prawn , Silkworm ,honeybee , snail , starfish , shark , rohu , frog, lizard , penguin , rabbit
4	Sept	5. Study of distribution of stomata for comparative study of rates of transpiration	<b>3.a.</b> Study of palisade cell ,guard cells, parenchyma, collenchyma, sclerenchyma , xylem , phloem from plant tissue <b>b.</b> squamous epithelium , muscle fibre ,and mammalian blood smear from animal tissue through temporary or permanent slides
5	Oct	6. Test for the presence of sugar starch , proteins and fats	4. Study of Mitosis in onion root tip cells and grasshopper cells from permanent slides 5. Study of Imbibition in seeds / raisins
6	Nov	7. Separation of plant pigments through paper chromatography. 8. Study the rate of respiration.	6. Study of different modifications in root, stem and leaves. 7. Study of different types of cymose and racemose inflorescence.
7	Dec	9. To study the presence of sugar and urea in urine.	8. Observation and comment on the experimental set up for showing aerobic respiration, phototropism and apical bud removal and suction due to transpiration.
8	Jan	10. To taste the presence of albumin and bile salts in urine.	9. Study of human skeleton and types of joints . 10. Study of external morphology of cockroach through specimens/models.

## SPLIT UP SYLLABUS 2018-19

**CLASS: XI (Theory)- C++**

**SUB: Computer Science (083)**

**Maximum Marks: 70**

**Books Prescribed:**1. Bugs And Bytes – A Book on Computer Science-XI-Publisher- DAVCMC , 2. Computer Science with C++, By SumitaArora, Published by DhanpatRai& co. , 3. C++ Programming by ReetaSahoo, Published by RachnaSagar.

PERIODIC EXAMINATION (Either of these two)		Month	Chapter to be Taught	Chapter wise Weightage	
				Half Yearly	Annual
UNIT TEST – I Dt.09.08.18	Weekly Test-I Dt.20.08.18	Jun.	Ch. 1: Computer Overview Ch. 2: Software Concepts	05 10	04
		Jul.	Ch.3: Data representation Ch.4: Microprocessor Basics and Memory Concepts Ch. 5: General OOP concept Ch. 6: Getting started with C++ Ch. 7: Data handling	07 12 04 05 07	06 05
UNIT TEST – II Dt.16.11.18	Weekly Test-II Dt.12.11.18	Aug.	Ch. 8: Operators and Expressions Ch. 10: Flow of Control (upto Selection Statements)	10 10	09 05
		Sep.	<b>Revision for Half Yearly Examination</b>	<b>Total:70</b>	
		Oct.	Ch. 10: Flow of Control (Iteration & Jumping statements) Ch. 11: Arrays(One dimensional) & Array of Strings		04
		Nov.	Ch. 11: Arrays (Two dimensional Array) Ch. 12: User Defined Functions		06 06
UNIT TEST – III Dt.10.01.19	Weekly Test-III Dt.24.12.18	Dec.	Ch. 12: Library Functions Ch. 13: Structures		04 09
		Jan	Ch. 14: Programming Methodology <b>Revision for Annual Examination</b>		12
		Feb.	<b>Revision for Annual Examination</b>		
					<b>Total: 70</b>

### Question Pattern:

Type of Question	Mark(s) Per Question	Total No. of Questions	Total Marks
VSA	1	9	09
SA-I	2	13	26
SA-II	3	5	15
LA	4	5	20
<b>Total:</b>			<b>70</b>

### Class XI (Practical) – C++

**Maximum Marks: 30**

#### Practical File

- a. Record of the configuration of computer system used by the student in the computer lab (by exploring inside computer system in the first 2 lab classes)
- b. Must have minimum 20 programs from the topics covered in class XI course.

Sl. No.	Detail of the Programs to be written and test in Computer
1	8 Programs from Control Structure
2	5 Programs from Array Manipulation
3	4 Program on String Manipulation
4	3 Programs on Structure Manipulation

### EVALUATION SCHEME FOR PRACTICAL EXAMINATION

SL.NO	EVALUATION SCHEME FOR PRACTICAL EXAMINATION	MARKS
1	One programming problem in C++ to be developed and tested in Computer during the examination. Marks are allotted on the basis of following: Logic : 6 Marks Documentation/Indentation : 2 Marks Output presentation : 2 Marks	10
2	Project Work ( Problems related to String, Number, Array and Structure manipulation)	10
3	Practical File (Must have minimum 20 C++ programs)	06
4	Viva Voce	04
<b>Total:</b>		<b>30</b>

**N.B.:** Weekly Tests will be held on Mondays.



**DAV PUBLIC SCHOOLS, ODISHA ZONE-II**  
**SPLIT-UP OF SYLLABUS FOR THE SESSION, 2018-19**

**CLASS: XI, SUB: ECONOMICS (030)**

- BOOKS PRESCRIBED:**
1. Statistics for Economics (NCERT)
  2. Introductory Microeconomics (NCERT)
  3. Supplementary Reading Material for Micro Economics

	MONTH	CHAPTERS/TOPICS TO BE TAUGHT	UNIT WISE WEIGHTAGE	
			HALF YEARLY	ANNUAL
<b>UNIT TEST - I</b>	<b>JUNE</b>	<b>Introductory Microeconomics</b>		
		<b>Unit – I. Introduction</b> <ul style="list-style-type: none"> <li>• Meaning of Micro &amp; Macro Economics</li> <li>• Positive &amp; Normative Economics</li> <li>• Central problems of an economy</li> <li>• Concept of PPC &amp; opportunity cost</li> </ul>	} 8	} 4
	<b>JULY (W.T-I)</b>	<b>Unit – II. Consumer’s equilibrium &amp; Demand</b> <ul style="list-style-type: none"> <li>• Concept of utility, Law of DMU</li> <li>• Consumer’s Equilibrium using Marginal Utility Analysis</li> </ul>	12	13
		<u><b>STATISTICS FOR ECONOMICS</b></u> <b>Unit-I.</b> Introduction <b>Unit-II.</b> Collection , Organization and Presentation of Data	} 05 } 15	} 13
<b>AUGUST</b>	<b>Unit-III. Statistical Tools and Interpretation</b> <ul style="list-style-type: none"> <li>• Measures of Central Tendency</li> <li>• Measures of Dispersion till Quartile Deviation</li> </ul> <b>Consumer’s equilibrium &amp; Demand</b> <ul style="list-style-type: none"> <li>• Indifference curve analysis of consumer’s equilibrium.</li> <li>• Demand, shift , movement&amp; determinants</li> </ul>	} 15 } 05  20	27	
<b>SEPTEMBER</b>	<b>Revision For Half Yearly Examination</b>		<b>Total: 80</b>	
	<b>Half Yearly Examination</b>			
<b>UNIT TEST – II</b>	<b>OCTOBER (W.T.II)</b>	<u><b>STATISTICS FOR ECONOMICS</b></u> <b>Unit-III. Statistical Tools and Interpretation</b> <ul style="list-style-type: none"> <li>• Mean Deviation</li> <li>• Standard Deviation</li> </ul>		
	<b>NOVEMBER (W.T.-III)</b>	<ul style="list-style-type: none"> <li>• Correlation</li> <li>• Introduction to Index Numbers.</li> </ul> <b>Unit- II. Consumer’s equilibrium &amp; Demand</b> <ul style="list-style-type: none"> <li>• Price elasticity of demand</li> <li>• Factors &amp; measurement of price ED.</li> </ul>		

<b>UNIT TEST-III</b>	<b>DECEMBER</b>	<b>Unit- III. Producer Behaviour and Supply</b> <ul style="list-style-type: none"> <li>• Production function-Short &amp; Long run</li> <li>• Concept of TP, AP&amp;MP</li> <li>• Returns to a factor</li> <li>• Concept of Cost &amp; Revenue</li> <li>• Producer's equilibrium &amp; Supply, Elasticity of supply</li> </ul>		13
	<b>JANUARY</b>	<b>Unit – IV: Forms of market &amp; Price determination</b> <b>Under Perfect competition</b> <ul style="list-style-type: none"> <li>• Perfect competition: Features, determinants &amp; effects of shift in demand and supply</li> <li>• Other Market forms</li> <li>• Simple application of demand and supply: price ceiling &amp; price floor.</li> </ul> One Project Work covering part A and part B		10  20
	<b>FEBRUARY</b>	<b>Revision &amp; Annual Examination</b>		
				<b>Total: 100</b>

### QUESTION PAPER DESIGN

**Theory: 80marks + Project: 20 Marks**

Sl. No	Typology of Questions	Very short Answer/ MCQ 1 Mark	Short Answer (I) 3 Marks	Short Answer (II) 4 Marks	Long Answer 6 Marks	Total Marks	%
1	Remembering	2	-	2	2	22	27%
2	Understanding	2	1	2	1	19	24%
3	Application Based	2	1	1	1	15	19%
4	HOT Skills (Analyse & Synthesis)	1	1	1	1	14	17%
5	Evaluation and Multi- Disciplinary	1	1	-	1	10	13%
	Total	8 × 1 = 8	4 × 3 = 12	6 × 4 = 24	6 × 6 = 36	80 (24)	100%

Note: The question papers for half yearly and annual examinations will contain 3 internal choices in questions of 3 marks, 4 marks and 6 marks in both sections. Total 3 internal choices in section A and 3 internal choices in section B.

**Project Work:** Each student will prepare **one project** work and submit the work in the project file (with viva voce) to the examiner.

## MARKING SCHEME FOR PROJECT WORK

Sl.No	Heading	Marks Allotted
1.	Relevance of the topic	3
2.	Knowledge Content / Research work	6
3.	Presentation Technique	3
4.	Viva	8
	Total	20 Marks

## SPLIT-UP OF SYLLABUS 2018-19

CLASS: XI

SUB: Business Studies (054)

BOOKS PRESCRIBED: Business Studies (NCERT)

	MONTH	CHAPTERS/TOPICS TO BE TAUGHT	CHAPTER WISE WEIGHTAGE	
			HALF YEARLY	ANNUAL
UNIT TEST-I	JUNE	<b>PART –A : FOUNDATION OF BUSINESS</b>		
		1. NATURE AND PURPOSE OF BUSINESS	20	08
	JULY	1. NATURE AND PURPOSE OF BUSINESS		
		2. FORM OF BUSINESS ORGANISATION	25	12
UNIT TEST-II	AUGUST	3. PUBLIC,PRIVATE AND GLOBAL ENTERPRISES	20	08
		4. BUSINESS SERVICES	20	10
	SEPTEMBER	5. EMERGING MODES OF BUSINESS	15	06
		<b>REVISION FOR HALF YEARLY EXAMINATION</b>	<b>Total: 100</b>	
	OCTOBER	6. SOCIAL RESPONSIBILITY OF BUSINESS AND BUSINESS ETHICS		06
		<b>PART –B FINANCE AND TRADE</b>		
	NOVEMBER	7. SOURCES OF BUSINESS FINANCE		14
		8. SMALL BUSINESS		06
UNIT TEST-III	DECEMBER	9. INTERNAL TRADE		12
	JANUARY	10. INTERNATIONAL BUSINESS		08
		11. PROJECT WORK		10
	FEBRUARY	<b>REVISION FOR ANNUAL EXAMINATION</b>		
			<b>Total:</b>	<b>100</b>

**QUESTION PATTERN (HALF-YEARLY)**

TYPE OF QUESTION(S)	MARK(S) PER QUESTION	TOTAL NO. OF QUESTIONS	TOTAL MARKS
VSA	1	8	8
SA – I	3	6	18
SA – II	4	6	24
LA – I	5	4	20
LA – II	6	5	30
<b>Total:</b>		<b>29</b>	<b>100</b>

**BLUE PRINT (HALF-YEARLY)**

SL. NO.	CONTENTS UNIT / FORMS OF QUESTIONS	VSA (1)	SA-1 (3)	SA-2 (4)	LA-1 (5)	LA-2 (6)	TOTAL MARKS
1	Nature and Purpose of Business	2	1	1	1	1	20
2	Forms of Business Organization	3	3	2	1		25
3	Private Public and Global Enterprises	1	1	1	-	2	20
4	Business Services	2	1	1	1	1	20
5	Emerging Modes of Business	-	-	1	1	1	15
<b>Total:</b>		<b>1 (8)=8</b>	<b>3 (6)=18</b>	<b>4 (6)=24</b>	<b>5 (4)=20</b>	<b>6 (5)=30</b>	<b>100</b>

**QUESTION PATTERN (ANNUAL)**

TYPE OF QUESTION(S)	MARK(S) PER QUESTION	TOTAL NO. OF QUESTIONS	TOTAL MARKS
VSA	1	8	8
SA – I	3	6	18
SA – II	4	5	20
LA – I	5	4	20
LA - II	6	4	24
<b>Total:</b>		<b>27</b>	<b>90</b>

**N.B.:** Blue Print of Question Papers for Annual Examination will be as per DAV CAE guidelines.

## SPLIT-UP OF SYLLABUS 2018-19

CLASS: XI

SUB: Accountancy (055)

BOOKS PRESCRIBED : Accountancy (NCERT) : Part – I and Part II

	MONTH	CHAPTERS/TOPICS TO BE TAUGHT	CHAPTER WISE WEIGHTAGE	
			HALF YEARLY	ANNUAL
UNIT TEST – I	JUNE & JULY	1. Theoretical Framework i. Introduction to Accounting	15	} 15
		ii. Theory base of Accounting	22	
		2. Accounting Process and Special Accounting Treatment i. Recording of Transactions	28	} 40
UNIT TEST-II	AUGUST	i. Recording of Transactions (cont.) ii. Preparation of Bank Reconciliation Statement, Ledger and Trial Balance	20	
	SEPTEMBER	iii. Accounting for Bills of Exchange <b>REVISION AND HALF YEARLY EXAMINATION</b>	15 <b>TOTAL:100</b>	
	OCTOBER	iv. Depreciation, Provisions & Reserves		
v. Rectification of Errors				
UNIT TEST – III	NOVEMBER	3. Financial Statement of Sole Proprietorship i. From Complete Records (Final Account)		} 25
	DECEMBER	ii. Accounts from Incomplete Records (Single Entry System)		
	JANUARY	4. Computers in Accounting. Project Work		10 10
	FEBRUARY	<b>REVISION AND ANNUAL EXAMINATION</b>		
<b>Total :</b>				<b>100</b>

### QUESTION PATTERN (HALF-YEARLY)

Type of Question(s)	Mark(s) per Question	Total no. Of Questions	Total Marks
VSA	1	6	6
SA – I	3	6	18
SA – II	4	6	24
LA – I	6	6	36
LA - II	8	2	16
<b>Total:</b>		<b>26</b>	<b>100</b>

### **BLUE PRINT (HALF-YEARLY)**

<b>SL NO</b>	<b>CONTENTS UNIT / FORMS OF QUESTIONS</b>	<b>VSA (1)</b>	<b>SA-1 (3)</b>	<b>SA-2 (4)</b>	<b>LA-1 (6)</b>	<b>LA-2 (8)</b>	<b>TOTAL MARKS</b>
1	Part – A Theoretical Framework (i) introduction to Accountancy	1	2	2			15
	(ii) Theory base of Accountancy	2	2	1+1	1		22
2	Accounting Process & Specialised Accounting Treatment (i) Recording of Transaction	1	1	1	2	1	28
	(ii) Preparation of Bank Reconciliation Statement, Ledger, Trial Balance	1	1	1	2		20
	(iii) Accounting for Bills of Exchange	1			1	1	15
<b>Total</b>		<b>1(6)</b>	<b>3(6)</b>	<b>4(6)</b>	<b>6(6)</b>	<b>8(2)</b>	<b>100</b>

### **QUESTION PATTERN (ANNUAL)**

<b>Type of Question(s)</b>	<b>Mark(s) per Question</b>	<b>Total no. Of Questions</b>	<b>Total Marks</b>
VSA	1	6	06
SA – I	3	6	18
SA – II	4	5	20
LA – I	6	5	30
LA - II	8	2	16
<b>Total:</b>		<b>24</b>	<b>90</b>

**N.B.:** Blue Print of Question Papers for Annual Examination will be as per DAV CAE guidelines.

- Question paper contains value based questions carrying 4 – 5 marks from the whole book as per the syllabus.

## SPLIT-UP OF SYLLABUS 2018-19

**CLASS: XI**

**SUB: Physical Education (048)**

**BOOKS PRESCRIBED: 1. Health and Physical Education, Class-XI, Goyal Publication**

**REFERENCE BOOKS : 1. Introduction to Physical and Health Education, Class-XI, Avinchal Publication**  
**2. A Text Book of Physical Education, Class-XI, Candid Publication**

	MONTH	CHAPTERS/TOPICS TO BE TAUGHT	CHAPTER WISE WEIGHTAGE	
			HALF YEARLY	ANNUAL
UNIT TEST-I	JUNE	UNIT-1: Changing Trend & Career In Physical Education	15	As per the DAV CAE Guidelines 2018-19
	JULY	UNIT-2: Olympic Movement	12	
		UNIT-3: Physical Fitness, Wellness & Lifestyle	13	
	AUGUST	UNIT-4: Physical Education & Sports for CWSN (Children With Special Needs- Divyang)	10	
		UNIT-5: Yoga	11	
		UNIT-6: Physical Activity & Leadership Training	09	
	SEPTEMBER	<b>REVISION FOR HALF YEARLY EXAMINATION</b>	<b>Total: 70</b>	
	OCTOBER	UNIT-7: Test, Measurement & Evaluation		
UNIT TEST-II	NOVEMBER	UNIT-8: Fundamentals Of Anatomy & Physiology		
		UNIT-9: Kinesiology, Biomechanics & Sports		
UNIT TEST-III	DECEMBER	UNIT-10: Psychology & Sports		
	JANUARY	UNIT-11: Training in Sports		
	FEBRUARY	UNIT-12: Doping		
		<b>REVISION FOR ANNUAL EXAMINATION</b>		

### QUESTION PATTERN

TYPE OF QUESTION(S)	MARK(S) PER QUESTION	TOTAL NO. OF QUESTIONS	TOTAL MARKS
VSA	01	11	11
SA-I	03	08	24
LA	05	07	35
<b>Total:</b>		30	70

### Weightage to learning objectives

Objectives	REMEMBERING	UNDERSTANDING	APPLICATION	CREATIVITY	HOTS	TOTAL
% Of	27.1	11.5	30	4.3	27.1	100
Marks	19	8	21	3	19	70
Marks						

## BLUE PRINT OF QUESTION PAPERS FOR HALF YEARLY EXAMINATION

Unit	Chapter	1 Mark	3 Marks	5 Marks	Total Marks
1	Changing Trend & Career In Physical Education	2	1	2	15
2	Olympic Movement	2	-	2	12
3	Physical Fitness ,Wellness & Lifestyle	-	1	2	13
4	Physical Education & Sports for CWSN (Children With Special Needs- Divyang)	1	3	-	10
5	Yoga	3	1	1	11
6	Physical Activity & Leadership Training	3	2	-	9
Total		11	08	07	70

### PHYSICAL EDUCATION (PRACTICAL)

**Max. Marks: - 30**

**60 periods**

**Time: 3 hrs.**

SL NO.	PRACTICALS TO BE CONDUCTED	MARK
1	• Physical Fitness (AAPHER)	10
2	• Skill of any one Individual Game of choice from the given list***	10
3	• Viva	5
4	• Record File***	5

**\*\* Archery, Badminton, Gymnastics, jodo, swimming, Table Tennis, Taekwondo, Tennis and Bocce\*\***

Record File shall include:

Practical-1: Labelled diagram of 400 M Track & Field with computations.

Practical-2: Computation of BMI from Family or neighbourhood & graphical representation of data.

Practical-3: Labelled diagram of field and equipment of any one game of your choice out of the above list.

Practical-4: Explanation & list of current National Awardees (Dronacharya Award, Arjun Award & Rajiv Gandhi Khel Ratna Award)

Practical-5: Pictorial presentation of any five Asanas for improving concentration.