

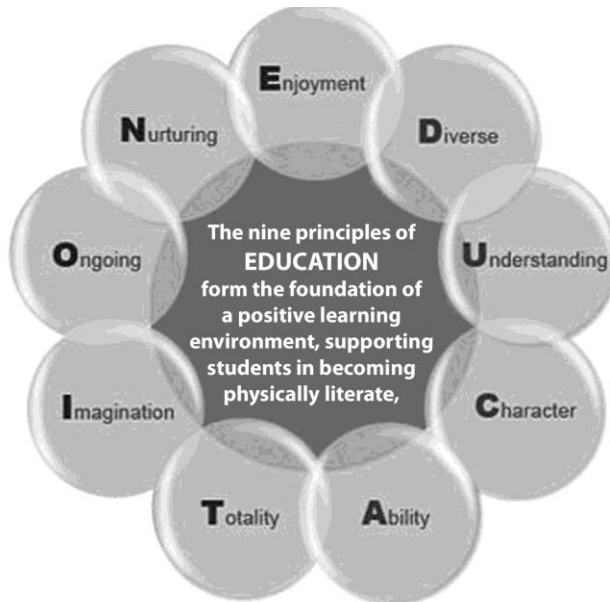


DAV PUBLIC SCHOOLS

ODISHA ZONE – II

SPLIT UP SYLLABUS FOR THE SESSION - 2018-19

CLASS – XII



Managed By:
DAV College Managing Committee, New Delhi

DAV PUBLIC SCHOOLS, ODISHA ZONE -II
EXAMINATION RULES
STD XII

- There will be Three Unit Tests / Weekly Tests, one Half yearly Examination, two Pre-Board Examinations and one Annual(Board) Examination.
- The Half Yearly, Pre-Board & Annual Examinations will carry 100 marks including Theory and Practical /Project.

3. Details of Tests/Examinations:-

| Sl.no. | Test / Examination | Tentative Dates |
|--------|-------------------------|---------------------|
| 1 | Unit Test - I | 25.06.18 - 02.07.18 |
| 2 | Unit Test - II | 03.08.18 – 10.08.18 |
| 3 | Unit Test - III | 08.11.18 – 17.11.18 |
| 4 | Half Yearly Examination | 20.09.18 – 03.10.18 |
| 5 | Pre-Board-I | 01.12.18 -14.12.18 |
| 6 | Pre-Board-II | 03.01.19 – 17.01.19 |

- 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.
- Minimum 75% attendance is a pre-requisite criterion for appearing the Annual Examination.
- It is mandatory for a student to appear in all the school based 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.
- 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/Mark sheet.

9- Point Scale

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

- In order to be declared as having passed the Class XII Examination, a candidate shall obtain 33% marks in all the five 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.
- 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 Compartment Examination.
- If a candidate having 6 subjects fails in only one subject in the Annual Examination ,he / she will be declared pass with the failed subject as his/her sixth subject. He/she can pass in the failed subject in compartment examination.
- 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) in the Report Card/Mark sheet.

SPLIT-UP OF SYLLABUS 2018-19

Class: XII Books Prescribed

English

1: Flamingo: English Reader (NCERT)

2: Vistas: Supplementary Reader (NCERT)

3: The Invisible Man by H. G. Wells (OR) Silas Marner by George Eliot

| MONTH | CHAPTERS/TOPIC TO BE TAUGHT | MARK DIST. FOR HALF YEARLY, PRE BOARD & BOARD EXAMINATIONS |
|---------------------------------------|--|--|
| MARCH | <p>Reading Unseen Passage for comprehension Note making & Summarizing</p> <p>Writing Notice</p> <p>Literature Flamingo My Mother at Sixty-Six The Last Lesson</p> <p>Vistas The Tiger King</p> <p>Novel Chap-1,2,3,4,5,6,7</p> | <p align="center"><u>SECTION-A</u> READING-30MARKS</p> <p align="center"><u>SECTION-B</u> WRITING SKILLS- 30MARKS</p> <p align="center"><u>SECTION-C</u> LITERATURE-40 MARKS</p> |
| APRIL | <p>Reading Note making & Summarizing</p> <p>Writing Advertisement Report writing</p> <p>Literature Flamingo Lost Spring An Elementary School Classroom in a Slum</p> <p>Vistas The Enemy</p> <p>Novel Chap-8,9,10,11,12</p> | |
| JUNE (Unit Test-I) | <p>Reading Unseen passage for comprehension</p> <p>Writing poster designing</p> <p>Literature Flamingo Deep Water</p> | |
| JULY (Weekly Test-I) | <p>Reading Note making & Summarizing</p> <p>Writing</p> | |

| | | |
|---|--|--|
| | <p>Article writing Official Letter Literature Flamingo The Rattrap Keeping Quiet</p> <p>Novel Chap-13,14,15,16</p> | |
| AUG (Unit Test-II/ Weekly Test-II) | <p>Reading Unseen passage for Comprehension Writing Letters to Editor Speech Literature Flamingo: Indigo Vistas: Should Wizard Hit Mommy On the Face of It Novel: Chap-17,18,19,20</p> | <p><u>QUESTION PATTERN FOR HYL/PBs/BOARD SECTION-A (READING) 30 MARKS</u></p> <p>1.MCQ 6x1=06 Marks 2.VSA 16X1=16 Marks 3.SA (Note making 80-100words) 05 Marks 4.LA-1 (Summarizing 80 words) 03 Marks</p> <p><u>SECTION-B (WRITING SKILLS) 30 MARKS</u></p> <p>1.SA (Notice/Advertisement/Poster/Invitation 50 words)04 Marks 2. LA-2(Letters based on verbal/visual input 120- 150 words)06 Marks 3.VLA (Article/Speech/Debate 150-200 words)10 Marks 4.VLA (Article/Speech/Debate 150-200 words)10 Marks</p> <p><u>SECTION-C (LITERATURE) 40 MARKS</u></p> <p>1. VSA (One out of two extracts) 4x1=04Marks 2. SA (Four questions from prose & Poetry) 4X3=12 Marks 3. LA-2 (120-150 words)4X6=24 Marks</p> |
| SEPT | <p>Reading Note making & Summarizing Revision and HALF YEARLY EXAMINATION</p> | |
| OCT | <p>Reading Unseen passage for comprehension Note making &Summarizing Writing Formal & Informal Invitation &replies Job Application Literature Flamingo: A Thing of Beauty Going Places Vistas: Memories of Childhood Novel: Chap-21,22,23,24</p> | |
| NOV (Unit Test-III/ Weekly Test-III) | <p>Reading Unseen passage for comprehension Note making &Summarizing Writing Business Letters Literature Flamingo: Aunt Jennifer’s Tigers Vistas: Evans Tries an O – Level Novel: Chap-25,26,27 & 28 Revision</p> | |

| | | |
|-------|--|--|
| DEC | PRE-BOARD-I REVISION FOR PRE-BOARD-II | |
| JAN | PRE-BOARD-II | |
| FEB | REVISION | |
| MARCH | BOARD EXAMINATION | |

SPLIT-UP OF SYLLABUS 2018-19

CLASS: XII

SUB: Chemistry (043)

Text Book Prescribed: Text Book for class-XII Chemistry (Part-I, II) (NCERT)

| MONTH | CHAPTERS/TOPIC TO BE TAUGHT | CHAPTER WISE WEIGHTAGE | | |
|--------------------------------|---|------------------------|---|-----------|
| | | HALF YEARLY | PRE BOARD/ ANNUAL | |
| MARCH-APRIL (WEEKLY TEST-I) | Unit-I: Solid state | 06 | Unit-I Unit-II Unit-III Unit-IV Unit-V | 23 |
| | Unit-II: Solution | 08 | | |
| | Unit-III: Electrochemistry | 08 | | |
| JUNE | UNIT TEST-I | | | |
| | Unit-IV: Chemical Kinetics | 08 | | |
| JULY (WEEKLY TEST-II) | Unit-V: Surface Chemistry | 06 | | |
| | Unit-X: Haloalkanes/Haloarenes | 06 | | |
| | Unit-XI: Alcohols, Phenols & Ethers | 06 | | |
| AUGUST (WEEKLY TEST-III) | UNIT TEST-II | | Unit-VI Unit-VII Unit-VIII Unit-IX | 19 |
| | Unit-XII: Aldehydes, Ketones & Carboxylic acid | 08 | | |
| | Unit-XIII: Amines | 05 | | |
| | Unit-XIV: Biomolecules | 05 | | |
| SEPTEMBER | Unit-VI :General principles & processes of isolation of elements | 4 | | |
| | REVISION FOR HALF YEARLY EXAMINATION | Total: 70 | | |
| OCTOBER | Unit-XVI: Chemistry in Everyday Life Unit-XV: Polymers Unit-VII: P-Block elements | | Unit-X Unit-XI Unit-XII Unit-XIII Unit-XIV Unit-XV Unit-XVI | 28 |
| NOVEMBER | UNIT TEST-III | | | |
| | Unit-VIII: d & f-Block elements | | | |
| | Unit-IX: Co-ordination compounds | | | |
| REVISION FOR PRE-BOARD-I | | | | |
| DECEMBER | 1 ST PRE BOARD EXAMINATION | | | Total: 70 |
| JANUARY | 2 ND PRE BOARD EXAMINATION | | | Total: 70 |

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 |
| Total: | | 27 | 70 |

NB.: 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

CHEMISTRY (PRACTICAL)

MAX. MARKS: - 30

60 PERIODS

TIME: 3 HRS

| SL NO. | MONTH | DETAILS OF THE EXPERIMENTS TO BE PERFORMED |
|--------|------------|---|
| 1 | April/June | <ul style="list-style-type: none">QUALITATIVE ANALYSIS: Determination of one cation one anion in the given salt |
| 2 | July | <ul style="list-style-type: none">Determination of concentration / molarity of KMnO_4 solution by titrating it against a standard solution of (a) oxalic acid (b) Ferrous ammonium sulphate |
| 3 | Aug. | <ul style="list-style-type: none">Test for the functional groups present in the organic compoundsPreparations of Organic compoundsSurface Chemistry |
| 4 | Sep. | HALF YEARLY EXAMINATION |
| | | <ul style="list-style-type: none">Test for carbohydrates, fats and proteins in pure samples and detection in given food stuffs.Chromatography |
| 5 | Oct. | <ul style="list-style-type: none">Preparation of Inorganic compoundsChemical Kinetics |
| 6 | Nov. | <ul style="list-style-type: none">Thermo chemistryElectro chemistry |
| 7 | Dec. | 1ST PRE-BOARD EXAMINATION |

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 | 04 |
| Total: | | 30 |

SPLIT-UP OF SYLLABUS 2018-19

CLASS: XII

SUB: Physics (042)

BOOKS PRESCRIBED: Text Book of Physics, NCERT, CLASS—XII

| MONTH | CHAPTER/TOPIC TO BE TAUGHT | PERIODIC EXAMINATION (Either of these two) | | CHAPTER WISE WEIGHTAGE | |
|----------------------------|---|---|-----------|------------------------|------------------|
| | | Weekly Test | Unit Test | HALF YEARLY | PREBOARD/ ANNUAL |
| MARCH | Ch-01 Electric charges and fields | Date : 19.06.2018 | | 22 | 15 |
| APRIL | Ch-02-Electrostatic potential and capacitance | | | | |
| APRIL | Ch -03- Current electricity | Date : 30.07.2018 | | 24 | 16 |
| JUNE JULY | Ch-04 –Moving charges and Magnetism | | | | |
| | Ch -05-Magnetism and Matter | | | | |
| | Ch-06-Electromagnetic Induction | | | | |
| | Ch-07-Alternating Current | Date : 10.08.2018 | | 24 | 17 |
| AUGUST | Ch-08-Electromagnetic Waves | | | | |
| | Ch -09 –Ray optics and Optical Instrument | | | | |
| | Ch -10 -Wave optics | Date : 10.09.2018 | | TOTAL =70 | |
| SEPTEMBER | RIVISION AND HALF YEARLY EXAMINATION | | | | |
| OCTOBER | Ch-11-Dual Nature of Radiation and Matter | Date : 12.11.2018 | | | 10 |
| | Ch-12-Atoms | | | | |
| | Ch -13 Nuclei | | | | |
| | Ch-14-Semiconductor and device (partly) | | | | 12 |
| NOVEMBER | Ch-14-Semiconductor Electronic: Materials ,Devices and Simple Circuits (Remaining part) | | | | |
| | Ch -15-Communication System | | | | |
| | RIVISION FOR PRE BOARD –I EXAMINATION | | | | |
| DECEMBER | PRE BOARD –I EXAMINATION | | | | |
| JANUARY | PRE BOARD –II EXAMINATION | | | | |

N.B: Weekly unit test will be held on Mondays

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 |
| | Total: | 27 | 70 |

PRACTICAL SYLLABUS

At least 6 experiment must be performed from each group and in total one student have to perform at least 15 experiment from both the section.

| | | |
|--|----------|-----------------|
| Two experiments(One from each section) | : | 8 + 8 marks |
| Practical Record(Experiments & Activities) | : | 6 marks |
| Investigatory Project | : | 3 marks |
| Viva on Experiments and Project | : | 5 marks |
| Total | = | 30 marks |

SECTION A

| SI.NO. | MONTH | DETAILS OF THE EXPERIMENTS TO BE PERFORMED |
|--------|-------|--|
| 1 | April | 1. To find the resistance of a given wire Using a metre bridge & hence determine the specific resistance of its material. 2. To determine resistance per cm of a given wire by plotting a graph between potential difference & current 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 5. To compare the EMF of two given primary cells using potentiometer. 6. To determine the internal resistance of a given primary cell using potentiometer. 7. To determine the resistance of a galvanometer by half –deflection method & to find its figure of merit 8. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same 9. To convert the given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same. 10. To find the frequency of AC mains with a sonometer. (Minimum 6 experiments to be performed in scheduled time) |
| 2 | April | |
| 3 | April | |
| 4 | June | |
| 5 | July | |
| 6 | July | |
| 7 | July | |
| 8 | | |
| 9 | | |
| 10 | | |

N.B: At least 6 experiment must be performed from this group .

Any of experiment SI .No 1 to 7 can be replaced by SI .No 8 to 10 depending on suitability of school

SECTION A

Activities (For the purpose of demonstration only)

1. To measure the resistance and impedance of an inductor with or without iron core.
2. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.
3. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
4. To assemble the components of a given electrical circuit.
5. To study the variation in potential drop with length of a wire for a steady current.
6. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.

N.B: At least 2 activity must be demonstrated from this group

SECTION B

| SI.NO. | MONTH | DETAILS OF THE EXPERIMENTS TO BE PERFORMED |
|--------|----------|---|
| 8 | July | 1. To find the value of 'v' for different values of 'u' in case of a concave mirror and to find the focal length. |
| 9 | August | 2. To find the focal length of a convex mirror using a convex lens. |
| 10 | August | 3. To find the focal length of a convex lens by plotting graphs between u & v OR 1/u & 1/v. |
| 11 | August | 4. To find the focal length of a concave lens, using a convex lens. |
| 12 | August | 5. To determine the angle of minimum deviation for a given prism by plotting a graph between angle of incidence & angle of deviation. |
| 13 | October | 6. To determine the refractive index of a glass slab using a travelling microscope. |
| 14 | October | 7. To find the refractive index of a liquid by using convex lens & plane mirror. |
| 15 | November | 8. To draw the I-V Characteristics curve of a p-n junction in forward bias & reverse bias. |
| 16 | | 9. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage |
| 17 | | 10. To study the characteristic of a common - emitter npn or pnp transistor and to find out the values of current and voltage gains. |
| | | (Minimum 6 experiments to be performed in scheduled time) |

N.B: At least 6 experiment must be performed from this group. Any of experiment SI .No 8 to 15 can be replaced by SI .No 16 or 17 depending on suitability of school

SECTION B

Activities *(For the purpose of demonstration only)*

1. To identify a diode, an LED, a transistor, an IC, a resistor and a capacitor from a mixed collection of such items.
 2. Use of multimeter to (i) identify base of transistor, (ii) distinguish between npn and pnp type transistors, (iii) see the unidirectional flow of current in case of a diode and an LED, (iv) check whether a given electronic component (e.g., diode, transistor or IC) is in working order.
 3. To study effect of intensity of light (by varying distance of the source) on an LDR.
 4. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
 5. To observe polarization of light using two Polaroids.
 6. To observe diffraction of light due to a thin slit.
 7. To study the nature and size of the image formed by a (i) convex lens, (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror).
 8. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.
- N.B: At least 2 activity must be demonstrated from this group

Suggested Investigatory project

1. To study various factors on which the internal resistance/EMF of a cell depends.
2. To study the variations in current flowing in a circuit containing an LDR because of a variation in (a) the power of the incandescent lamp, used to 'illuminate' the LDR (keeping all the lamps at a fixed distance). (b) the distance of a incandescent lamp (of fixed power) used to 'illuminate' the LDR.
3. To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equi convex lens (made from a glass of known refractive index) and an adjustable object needle.
4. To design an appropriate logic gate combination for a given truth table.
5. To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self designed transformer.
6. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids.
7. To estimate the charge induced on each one of the two identical styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law.
8. To set up a common base transistor circuit and to study its input and output characteristic and to calculate its current gain.
9. To study the factor on which the self inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency.
10. To construct a switch using a transistor and to draw the graph between the input and output voltage and mark the cut-off, saturation and active regions.
11. To study the earth's magnetic field using a tangent galvanometer

N.B: The record to be submitted by the students at the time of their annual examination has to include: Record of at least 15 Experiments [with a minimum of 6 from each section], to be performed by the students. Record of at least 5 Activities [with a minimum of 2 each from section A and section B], to be demonstrated by the teachers. The Report of the project to be carried out by the students

SPLIT-UP OF SYLLABUS 2018-19

CLASS: XII

SUB: Mathematics (041)

BOOKS PRESCRIBED: 1. MATHEMATICS TEXT BOOK FOR CLASS – XII (PART- I & II) (NCERT)
2. MATHEMATICS (EXAMPLAR PROBLEMS) (NCERT)

| | MONTH | CHAPTERS/TOPICS TO BE TAUGHT | CHAPTERWISE WEIGHTAGE | |
|----------------|-----------|---|-------------------------------------|----------------------|
| | | | Half Yearly | Pre Board/ Annual |
| UNIT TEST – I | MARCH | Ch – 1: Relations & Functions | 10 | 10 |
| | APRIL | Ch – 2: Inverse Trigonometric Functions. | 08 | |
| | | | CH – 3 & 4: Matrices & Determinates | 14 |
| | JUNE | Ch – 5: Continuity & Differentiability | 14 | 44 |
| UNIT TEST– II | JULY | Ch – 6: Applications of Derivatives | 16 | |
| | | Ch – 7: Integrals | 20 | |
| | AUGUST | Ch – 8: Application of Integrals | 06 | |
| | | Ch – 9: Differential Equation | 12 | |
| | SEPTEMBER | REVISION FOR HALF YEARLY EXAMINATION | Total: 100 | |
| UNIT TEST– III | OCTOBER | Ch – 10: Vector Algebra | | 17 |
| | | Ch – 11: Three-Dimensional Geometry | | |
| | | Ch – 12: Linear Programming | | 06 |
| | NOVEMBER | Ch – 13: Probability | | 10 |
| | | Revision for PRE BOARD EXAMINATION | | |
| | DECEMBER | PRE BOARD – I | | |
| | JANUARY | PRE BOARD – II | | |
| | | | Total: | 100 |

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 |
| Total: | | 29 | 100 |

BLUE PRINT OF QUESTION PAPER- HALF YEARLY EXAMINATION

| Sl. No. | Topic | 1 Mark | 2 Marks | 4 Marks | 6 Marks | TOTAL |
|---------|---------------------------------|--------|---------|---------|---------|------------|
| 1 | Relation & Function | 1 | 1 | - | 1 | 9 |
| 2 | Inverse Trigonometric Function. | - | 2 | 1 | - | 08 |
| 3 | Matrix & Determinates | 2 | 1 | 1 | 1 | 14 |
| 4 | Continuity & Differentiability | - | 1 | 3 | - | 14 |
| 5 | Applications of Derivatives | - | 1 | 2 | 1 | 16 |
| 6 | Integrals | 1 | 1 | 3 | 1 | 21 |
| 7 | Application of Integrals | - | - | - | 1 | 6 |
| 8 | Differential Equation | - | 1 | 1 | 1 | 12 |
| | Total: | 1×4=4 | 2×8=16 | 4×11=44 | 6×6=36 | 100 |

NB.: Blue Print of Question Papers for Pre-Board and Annual Examination will be as per **CBSE** 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% |
| | Total | 1×4=4 | 2×8=16 | 4×11=44 | 6×6=36 | 100 | 100% |

SPLIT-UP OF SYLLABUS 2018-19

CLASS: XII

SUB: BIOLOGY (044)

TEXT BOOK PRESCRIBED: 1. Text book for Class XII, BIOLOGY, NCERT

2. Comprehensive practical

| MONTH | CHAPTERS/TOPIC TO BE TAUGHT | CHAPTER WISE WEIGHTAGE | |
|-----------------------|--|------------------------|--------|
| | | HALF YEARLY | ANNUAL |
| March | UNIT-VI : Reproduction CH-1:Reproduction in organisms CH-2: Sexual reproduction in flowering plants | 16 | 14 |
| April | UNIT-VI : Reproduction Ch – 3 : Human Reproduction Ch – 4 : Reproductive Health | | |
| May | Unit – VII : Genetics and Evolution CH – 6 : Molecular basis of Inheritance . | 15 | 18 |
| June (W.T.- I) | Ch – 7 : Evolution | | |

| | | | |
|-----------------------------------|---|-----------------|-----------|
| July (W.T.- II) | Unit – VIII : Biology in Human Welfare Ch – 8 : Human Health and Diseases Ch – 9 : Strategy for Enhancement in Food Production. Ch - 10 : Microbes in Human Welfare | 22 | 14 |
| August (W.T.- II/ U.T.- II) | UNIT-IX : Biotechnology and its application CH – 11 : Biotechnology Principles and Processes CH – 12 : Biotechnology and its Application | 17 | 10 |
| September | Revision for HALF YEARLY EXAMINATION | Total:70 | |
| October (W.T.- III) | UNIT – X : Ecology and Environment CH – 13 : Organisms and Population CH – 14 : Ecosystem | | |
| November (U.T.- III) | UNIT – X : Ecology and Environment CH – 15 : Biodiversity and Conservation CH – 16 : Environmental Issues Revision for Pre-Board – I | | 14 |
| December | Pre-Board – I | | |
| January | Pre-Board – II | Total | 70 |

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 |
| | Total: | 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 VI; Reproduction | 1x2=2 Ch-1,2 | 2x1=2 Ch - 2 | 3x4=12 Ch2,3,4 | -- | 16 |
| 2 | Unit-VII Genetics and Evolution | 1x1=1 Ch-6 | ----- | 3x3=9 Ch-5,6,9 | 1x5=5 Ch-6 | 15 |
| 3 | Unit-VIII : Biology in Human welfare | 1x2=2 Ch-9 | 2x3=6 Ch-8,10 | 3x3=09 Ch-8,9,10 | 1x5=5 Ch-9 | 22 |
| 4. | Unit – IX : Biotechnology | -- | 2 x 3 = 6 Ch –11, 12 | 3x2=6 Ch 11,12 | 1x5=5 Ch-12 | 17 |
| | Total | 1x5=5 | 2x7=14 | 3x12=36 | 5 x3=15 | 70 |

Weightage to content / subject units

| Unit | Title | Marks |
|---------|-----------------------------------|-------|
| VI | Reproduction | 14 |
| VII | Genetics and Evolution | 18 |
| VIII | Biology and Human welfare | 14 |
| IX | Biotechnology and its application | 10 |
| X | Ecology and Environment | 14 |
| Total : | | 70 |

PRACTICAL SYLLABUS

Subject : Biology Practical Std – XII

Max. Mark : 30

Time : 3 Hrs

60 periods

| Section | Experiment | Mark |
|---------|-------------------------------|------|
| A | One major experiment | 5 |
| | One minor experiment | 4 |
| B | Slide preparation. | 5 |
| C | Spotting | 7 |
| D | Practical record + viva-voice | 4 |
| E | Project + viva-voice | 5 |
| Total | | 30 |

Biology Practical (Class-XII)

| Sl.No. | Month | Details of the experiments to performed | Details of the spottings to performed |
|--------|-------|--|---|
| 1 | April | 1. Study of pollen germination on a slide | 1. Flowers adapted to pollination by different species (Wind, insects) |
| 2 | June | 2 . Collect and study soil from atleast two different soils and study them for texture, moisture content, pH and water holding capacity of soil. Correlate with the kinds of plant found in them. | 2. Pollen germination in stigma through a permanent slide 3. Identification of stages of gamete development i.e. T.S. of Testis and T.S. of Ovary through permanent slides (Grasshopper / mice) |
| 3 | July | 3. Collect water from two different water bodies around you and study them for pH, clarity and presence of any living organism 4. Study the presence of suspended particulate matter at two widely different sites. | 4. Meiosis in onion bud cell or grasshopper testes through permanent slides. 5. T.S. of blastula through permanent slides(mammalian) |
| 4 | Aug | 5. Study of plant population density by quadrat method 6. Study of plant population frequency by quadrat method | 6. Mendelian inheritance using seeds of different colours / sizes of any plant. |
| 5. | Sep | 7. Prepare a temporary mount of onion root tip to study mitosis | 7. Study of 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. 8. Exercise on controlled pollination – emasculation, tagging and bagging |
| 6. | Oct | 8. Study the effect of different temperature and three different pH on the activity of salivary amylase on starch. | 9. Identification of common disease causing organism like Ascaris, Entamoeba, Plasmodium, ring worm through permanent slides or specimens .Comment on symptoms of disease that they cause |
| 7 | Nov | 9.Isolation of DNA from plant materials such as spinach ,Green pea seed , Papaya etc | 10. Two plants and two animals found in Xeric conditions .Comment upon their morphological adaptations 11.Two plants and two animals found in aquatic conditions. Comment upon their morphological adaptations |

SPLIT UP SYLLABUS 2018-19

CLASS: XII (Theory)- C++

SUB: Computer Science (083)

Maximum Marks: 70

Books Prescribed: 01. Bugs And Bytes – A Book on Computer Science-XII Published By DAVCMC
02. Computer Science with C++ by Sumita Arora, Dhanpat Rai & Co
03. C++ Programming by Reeta Sahoo, Published by Rachna Sagar
04. All in One-Computer Science CBSE Class 12th by Mini Goyal & Er. Harshit Garg,
Publisher- Arihant Prakashan, Meerut

| PERIODIC EXAMINATION (Either of these two) | | Months | Chapters / Topics to be Taught | Chapter Wise Weightage | |
|--|---------------------------------|--------|--|------------------------|-------------------|
| | | | | Half Yearly | Pre Board/ Annual |
| UNIT TEST- I Dt.30.06.18 | WEEKLY TEST- I Dt.02.07.18 | Mar. | 1. C++ Revisions Tour, 2. OOP Concept, 3. Function Overloading | 14 | 09 |
| | | Apr. | 4. Classes and Objects 5. Constructors and Destructors | 06 07 | 04 05 |
| | | Jun. | 6. Inheritance 13. Boolean Algebra | 07 10 | 04 08 |
| UNIT TEST- II Dt.04.08.18 | WEEKLY TEST- II Dt.13.08.18 | Jul. | 8. Pointer 7. Data File Handling 11. Database Concepts | 03 08 05 | 02 06 02 |
| | | Aug. | 9. Data Structure -Array 12. SQL | 10 ---- | 08 06 |
| | | Sep. | Revision for HALF YEARLY EXAMINATION | Total: 70 | ---- |
| UNIT TEST- III Dt.09.11.18 | WEEKLY TEST- III Dt.05.11.18 | Oct. | 10. Linked Lists, Stacks, Queues | ---- | 06 |
| | | Nov. | 14. Communication Technologies REVISION FOR PREBOARD-I | ---- | 10 |
| | | Dec. | PRE BOARD – I , REVISION FOR PREBOARD-II | ---- | ---- |
| | | Jan. | PRE BOARD – II | ---- | ---- |
| | | | | Total: | 70 |

Question Pattern

| Q. NO. | NO. OF QUESTIONS | | | | TOTAL |
|---------------|------------------|-------|--------|--------|-----------|
| | 1 MARK | 2MARK | 3 MARK | 4 MARK | |
| 1 | 01 | 04 | 01 | 00 | 12 |
| 2 | 00 | 02 | 00 | 02 | 12 |
| 3 | 00 | 02 | 02 | 01 | 14 |
| 4 | 01 | 01 | 01 | 00 | 06 |
| 5 | 00 | 02 | 00 | 01 | 08 |
| 6 | 01 | 02 | 01 | 00 | 08 |
| 7 | 00 | 03 | 00 | 01 | 10 |
| Total: | | | | | 70 |

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

Class XII (Practical) – C++ Maximum Marks: 30

Evaluation Scheme for Practical Examination

| SL. No | EVALUATION SCHEME FOR PRACTICAL EXAMINATION | MARKS |
|--------|---|-------|
| 1 | <p>One programming problem in C++ to be developed and tested in Computer during the examination. Marks are allotted on the basis of following:</p> <ul style="list-style-type: none"> • Logic : 6 Marks • Documentation/Indentation : 2 Marks • Output presentation : 2 Marks <p>Notes: The type of problem to be given will be of application type from the following topics</p> <ul style="list-style-type: none"> • Arrays (One dimensional and two dimensional) • Class(es) and objects • Stack using arrays or linked implementation • Queue using arrays(circular) and or linked implementation • Binary File Operation (Creation, Displaying, Searching and modification) • Text file operations (Creation, Displaying and modification) | 10 |
| 2 | <p>SQL Commands</p> <ul style="list-style-type: none"> • Five Query questions based on a particular Table/ Reaction to be tested practically on Computer during the examination. The command along with the result must be written in the answer sheet. | 05 |
| 3 | <p>Project work – The project has to be developed in C++ Language with Object Oriented Technology and also should have use of Data Files.</p> | 05 |
| 4 | <p>Practical File- Must have minimum 20 programs of C++ and 15 SQL commands along with the output based on any Table.</p> | 06 |

| SL NO. | PROGRAMS AND SQL COMMANDS TO BE TYPED AND TESTED IN COMPUTER | |
|---------------|---|----|
| 1. | Arrays (One dimensional and two dimensional, sorting, searching, merging, deletion and insertion of elements) | |
| 2. | Class(es) and Objects | |
| 3. | Stack using arrays (linear and circular) and linked implementation | |
| 4. | File (Binary and Text) operations (Creation, Updation, Query) | |
| 5. | Any computational Based problems | |
| 6. | 15 SQL commands along with the output based on any table/relation | |
| 5 | Viva Voce- Viva will be asked from Syllabus covered in Class-XII and the project developed by student. | 04 |
| Total: | | 30 |

SPLIT-UP OF SYLLABUS 2018-19

CLASS: XII (048)

SUB: Physical Education

BOOKS PRESCRIBED: Health & Physical Education (Goyal Publication)

| | MONTH | CHAPTERS/TOPICS TO BE TAUGHT | MARK DIST.FOR HALF YEARLY EXAMINATION | MARK DIST.FOR ANNUAL EXAMINATION |
|--|---------------|---|---------------------------------------|----------------------------------|
| Unit test-I | MARCH | Unit 01:Planning in sports | 08 | 06 |
| | APRIL | Unit 02 : Sports & Nutrition | 07 | 06 |
| | | Unit 03 : Yoga & Life Style | 08 | 06 |
| | JUNE | Unit 04 : Physical Education & Sports for CWSN (Children With Special Needs- Divyang) | 07 | 06 |
| Unit test-II | JULY | Unit 05 : Children & Sports | 08 | 05 |
| | | Unit 06 : Women & Sports | 07 | 05 |
| Unit 07 : Test & Measurement in Sports | | 09 | 06 | |
| | AUGUST | Unit 08 : Physiology & Sports Unit 09 : Sports Medicine | 08 08 | 06 06 |
| | SEPT | REVISION FOR HALF YEARLY EXAMINATION | Total : 70 | |
| Unit test-III | OCT | Unit 10 : Kinesiology, Biomechanics & Sports | | 06 |
| | NOV | Unit 11 : Psychology & Sports | | 06 |
| | | Unit 12 : Training in Sports | | 06 |

| | | | | |
|--|------------|---|--|-----------|
| | | REVISION FOR PRE BOARD EXAMINATION | | |
| | DEC | PREBOARD-I | | |
| | JAN | PREBOARD-II | | |
| | | TOTAL | | 70 |

QUESTION PATTERN (HALF YEARLY / PRE BOARD)

| TYPE OF QUESTION(S) | MARK(S) PER QUESTION | TOTAL NO. OF QUESTIONS | TOTAL MARKS |
|----------------------------|-----------------------------|-------------------------------|--------------------|
| VSA | 01 | 11 | 11 |
| SA | 03 | 08 | 24 |
| LA | 05 | 07 | 35 |
| | Total: | 26 | 70 |

PHYSICAL EDUCATION (PRACTICAL)

Max. Marks: 30

60 periods

Time: 3 hrs.

| SL NO. | PRACTICALS TO BE CONDUCTED | MARK |
|---------------|--|-------------|
| 1 | Physical Fitness-AAHPER | 10 |
| 2 | Skill of any one Team game of choice from the given list *** | 10 |
| 3 | Viva | 5 |
| 4 | Record File | 5 |

Athletics, Basketball, Football, Handball, Hockey, Kho-Kho, Rifle Shooting, Volleyball and unified Basketball [CWSN(Children With Special Needs- Divyang)]

Record File shall include:

Practical-1: Modified AAPER administration for all items.

Practical-2: Conduct Barrow 3 item Test on 10 students.

Practical-3: Procedure for Asanas, Benefits and Contraindication for any two Asanas for each lifestyle disease.

Practical-4: Procedure for administering Senior Citizen Fitness Test for 5 elderly family members.

Practical-5 Any one game of your choice out of the list above. Labelled diagram of field and equipment (Rules, Terminologies and Skills).

N.B.: Unit / Weekly test will be held on Mondays

SPLIT-UP OF SYLLABUS 2018-19

CLASS: XII

SUB: Business Studies (054)

BOOKS PRESCRIBED : 1. Business studies Part-I (NCERT)

2. Business studies Part-II (NCERT)

| UNIT TEST-I | MONTH | CHAPTERS/TOPICS TO BE TOUGHT | CHAPTER WISE WEIGHTAGE | |
|---------------|----------------|---|------------------------|-------------------|
| | | | HALF YEARLY | PRE BOARD/ ANNUAL |
| UNIT TEST -II | MARCH | Ch-1: Nature and significance of management Ch-2: Principles of management. | 27 | 16 |
| | APRIL | Ch-3: Business Environment Ch-4: Planning | 20 | 14 |
| | JUNE | Ch-5: Organizing | | |
| UNIT TEST-III | JULY | Ch-6: Staffing Ch-7: Directing | 33 | 20 |
| | AUGUST | Ch-8: Controlling | | |
| | SEPTEMBER | REVISION FOR HALF YEARLY EXAMINATION Ch-9: Financial management | Total: 80 | 50 |
| UNIT TEST-III | OCTOBER | Ch-10: Financial markets | - | 15 |
| | | Ch-11: Marketing management | | |
| | NOVEMBER | Ch-12: Consumer Protection | - | 20 |
| | | Practical with Project Work One project (As per CBSE guidelines) <i>Revision for Pre-Board – I</i> | | |
| DECEMBER | PRE BOARD - I | | | |
| JANUARY | PRE BOARD - II | | | |
| | | | | 100 |

QUESTION PATTERN (HALF-YEARLY/PRE-BOARD/ANNUAL)

| TYPE OF QUESTION(S) | MARK(S) PER QUESTION | TOTAL NO. OF QUESTIONS | TOTAL MARKS |
|--|----------------------|------------------------|-------------|
| VSA | 1 | 8 | 8 |
| SA – I | 3 | 5 | 15 |
| SA – II | 4 | 6 | 24 |
| LA – I | 5 | 3 | 15 |
| LA - II | 6 | 3 | 18 |
| THEORY | | | |
| TOTAL: | | | |
| PROJECT WORK | | | |
| EVALUATION/ASSESSMENT: | | | |
| One project as per CBSE guidelines. | | 25 | 80 |
| TOTAL: | | | 20 |
| TOTAL: | | | 100 |

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 significance of management | 2 | - | 1 | 1 | - | 11 |
| 2 | Principles of management | - | 2 | 1 | - | - | 10 |
| 3 | Business environment | 2 | - | 1 | - | - | 06 |
| 4 | Planning | - | 1 | 1 | - | - | 07 |
| 5 | Organizing | 2 | - | - | 1 | 1 | 13 |
| 6 | Staffing | 1 | 1 | 1 | 1 | - | 13 |
| 7 | Directing | 1 | 1 | 1 | - | 1 | 14 |
| 8 | controlling | - | - | - | - | 1 | 6 |
| Total: | | 1(8)=8 | 3(5)=15 | 4(6)=24 | 5(3)=15 | 6(3)=18 | 80 |

N.B.: Blue Print of Question Papers for Pre-Board and Annual Examination will be as per CBSE guidelines

SPLIT-UP OF SYLLABUS 2018-19

CLASS: XII (Commerce)

SUB: Accountancy (Code No.055)

**TEXT BOOKS PRESCRIBED: 1. Accountancy Part-I (NCERT)
2. Accountancy Part-II (NCERT)**

| | MONTH | CHAPTERS/TOPICS TO BE TAUGHT | CHAPTER WISE WEIGHTAGE | |
|----------------------|--|---|------------------------|-------------------|
| | | | HALF YEARLY | PRE BOARD/ ANNUAL |
| UNIT TEST – I | MARCH | Part A:Accounting for not for profit organization and Partnership Firm and companies. | | |
| | | Ch.1 Not for profit organization Ch. 2 Accounting for partnership firm – (Fundamentals) | 12 12 | 10 10 |
| | APRIL | Goodwill : Nature and Valuation Ch. 3 Accounting for partnership firm: – Reconstitution and Dissolution • Change in the profit sharing Ratio among the existing partners • Admission of a partner | 31 | 25 |
| JUNE | • Retirement and Death of a partner Ch. 4 Accounting for partnership firm – Reconstitution and Dissolution | | | |

| | | | | |
|-----------------|-------------------------------------|---|------------------|-----------------------------------|
| UNIT TEST-II | JULY | <ul style="list-style-type: none"> Dissolution of partnership firm Ch. 5 Accounting for Share Capital Share and Share Capital Accounting for Share Capital Accounting treatment of forfeiture and re- issue of shares | 17 | 15 |
| | AUGUST | Ch. 6 Accounting for Debentures <ul style="list-style-type: none"> Debenture – Issue of Debentures Redemption of Debentures | 08 | |
| | SEPTEMBER | Part B: Financial Statement Analysis Ch. 7 Financial Statements of a Company Ch. 8 Analysis of Financial Statements (Theory) REVISION AND HALF YEARLY EXAMINATION | Total: 80 | 12 |
| UNIT TEST – III | OCTOBER | Ch. 8 : Analysis of Financial Statements <ul style="list-style-type: none"> Tools for Financial Analysis Accounting Ratios | | |
| | | Ch. 8 : Analysis of Financial Statements <ul style="list-style-type: none"> Cash Flow Statement | | 08 |
| | NOVEMBER | Accountancy Project work / Practical <ul style="list-style-type: none"> ➤ Project file 4 marks ➤ Written Test 12 marks ➤ Viva Voice 4 marks REVISION FOR PRE-BOARD EXAMINATION | | Total: 80 20 |
| | DECEMBER | PRE-BOARD – I | | |
| | JANUARY | PRE-BOARD – II | | |
| | Total (Theory + Practical) : | | → | 100 |

QUESTION PATTERN (HALF-YEARLY EXAMINATION)

| TYPE OF QUESTION(S) | MARK(S) PER QUESTION | TOTAL NO. OF QUESTIONS | TOTAL MARKS |
|---------------------|----------------------|------------------------|-------------|
| VSA | 1 | 8 | 8 |
| SA – I | 3 | 4 | 12 |
| SA – II | 4 | 5 | 20 |
| LA – I | 6 | 4 | 24 |
| LA – II | 8 | 2 | 16 |
| Total | | 23 | 80 |

BLUE PRINT (HALF-YEARLY EXAMINATION)

| SL NO | CONTENTS UNIT/FORMS OF QUESTIONS | VSA (1) | SA-1 (3) | SA-2 (4) | LA-1 (6) | LA-2 (8) | TOTAL MARKS |
|---------------|---|---------------|----------------|----------------|----------------|----------------|-------------|
| 1 | PART –A Accounting for not for profit organization and partnership-firms and Companies Accounting for not for profit organization. | 2 | | 1 | 1 | | 12 |
| 2 | Accounting for Partnership firm- (Fundamentals) | 2 | | 1 | 1 | | 12 |
| 3 | Accounting for Partnership firm- Reconstitution & Dissolution | 1 | 2 | 1 | 2 | 1 | 31 |
| 4 | Accounting for share Capital | 2 | 1 | 1 | | 1 | 17 |
| 5 | Accounting for Debentures | 1 | 1 | 1 | - | - | 08 |
| Total: | | 1(8)=8 | 3(4)=12 | 4(5)=20 | 6(4)=24 | 8(2)=16 | 80 |

QUESTION PATTERN (PRE-BOARD EXAMINATION)

| TYPE OF QUESTION(S) | MARK(S) PER QUESTION | TOTAL NO. OF QUESTIONS | | TOTAL MARKS |
|---------------------|----------------------|------------------------|----------|-------------|
| | | PART-A | PART-B | |
| VSA | 1 | 6 | 2 | 8 |
| SA – I | 3 | 4 | - | 12 |
| SA – II | 4 | 2 | 3 | 20 |
| LA – I | 6 | 3 | 1 | 24 |
| LA – II | 8 | 2 | - | 16 |
| Total: | | 17 | 6 | 80 |

N.B.: Blue Print of Question Paper for Pre-Board and Annual Examination will be as per CBSE guidelines

SPLIT-UP OF SYLLABUS FOR THE SESSION, 2018-19

CLASS: XII

SUB: ECONOMICS (Code No. 030)

- BOOKS PRESCRIBED:**
1. Introductory Micro Economics (NCERT: Part – A)
 2. Introductory Macro Economics (NCERT: Part – B)
 3. Supplementary Reading Materials (CBSE)

| | MONTH | CHAPTER/TOPIC TO BE TAUGHT | UNIT WISE WEIGHTAGE | |
|------------------------|--------------------|---|---------------------|-----------------------------------|
| | | | HALF YEARLY | PRE BOARD/ ANNUAL |
| UNIT TEST – I | Mar. | Macro Economics Unit –V. National Income & Related Aggregates | } 15 | 10 |
| | April | Unit – V. National Income & Related Aggregates | | |
| | June (W.T.-I) | Macro Economics Unit – VI. Money & Banking | 10 | 06 |
| UNIT TEST – II | July | Micro Economics Unit- I. Introduction Unit – II. .Consumer’s Equilibrium & Demand | 06 17 | 04 13 |
| | Aug. (W.T.-II) | Micro Economics Unit – III. Producer’s Behaviour & Supply. Macro Economics Unit – VII. Determination of Income & Employment. | 17 15 | 13 12 |
| | Sept. | Revision for Half Yearly Half Yearly Exam | Total: 80 | |
| UNIT TEST – III | Oct. (W.T.-III) | Macro Economics Unit – VIII. Govt. Budget & the Economy. Unit – IX. Balance of Payment | | 06 06 |
| | Nov. | Micro Economics Unit – IV. Forms of Market & Price Determination under Perfect Competition with Simple Application. | | 10 |
| | Dec. | 1ST PRE – BOARD EXAM. | | Theory:80 |
| | Jan. | 2ND PRE – BOARD EXAM. | | |
| One Project Work | | | | 20 |
| Total: | | | | Theory: 80 Project: 20 |

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.

ProjectWork: Each student will prepare **one project** work and submit the work in the project file (with viva voce) to the external 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 |