OFFICE OF THE PRINCIPAL
VIKRAM DEB HIGHER SECONDARY SCHOOL
JEYPORE, KORAPUT-764001

Letter No. : 1450 /VDHSS/2021   Date : 03.11.2021

NOTICE

It is for the information of +2 2nd year students of Arts/Commerce/Science that the 2nd Quarter End Examination-2021 is going to be held according to the following schedule. All the +2 2nd year students are advised to take note of the schedule and attend the examinations strictly according to the schedule. They must come to the college with their valid Identity Cards, proper uniform and must maintain the S.O.P. Covid-19 protocol.

2ND QUARTER END THEORY EXAMINATION SCHEDULE

DATE AND DAY	Science		Arts		Commerce	
Time	08.00 AM to 08.45 AM	08.45 AM to 09.30 AM	10.00 AM to 10.45 AM	10.45 AM to 11.30 AM	12.00 Noon to12.45 PM	12.45 PM to 01.30 PM
25.11.2021 (Thursday)	English	MIL(Odia)	English	MIL(Odia)	English	MIL(Odia)
26.11.2021 (Friday)	Physics	Chemistry	Political Science	Economics	BSM	BMS
29.11.2021 (Monday)	Mathematics	Biology	History	Logic	CAC	ACT
30.11.2021 (Tuesday)	Statistics	Multi-Skill / T & H (Science/Arts / Commerce)	Sociology	Optional (Odia)	MIL(Hindi), MIL(AE), MIL(Sanskrit) ,MIL(Telugu) (Science/ Arts/ Commerce)	

PRACTICAL/PROJECT EXAMINATION SCHEDULE: 12.11.2021 TO 24.11.2021

➢ Practical/Project Examinations of **Science and Arts streams** (including vocational subjects) shall be conducted in their respective practical classes between 12th and 24th November 2021.

➢ Students of **Commerce stream** must submit their project reports on or before 24.11.2021 to the respective subject teachers.

The pattern of Question and mark distribution in Theory paper of 1st Quarter end Examinations shall be as below:

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The Pattern of Question in Theory Paper (for all streams)

Time Allowed - 45 minutes ,   Full Marks-20

A. Six very short Questions (All compulsory) (Multiple choice Type/Fill in the blanks/ one word answer/ one sentence answer type)   6x1=6 marks

B. Three short questions to be answered out of Four given requiring not more than 4 minutes to answer each   3x2=6 marks

C. Two questions to be answered out of three given requiring not more than 8 minutes to answer each
                    2x4=8 marks

Practical Examination Pattern (for Science stream)

Time Allowed – 2 hours   Full Marks-10

A. Experiment – 6 marks

B. Viva Voce - 2 marks

C. Record – 2 marks

Project Examination Pattern (for Commerce stream)

Full Marks-10

A. Project Report – 10 marks

B. **Project Report should be handwritten and must be within 2 pages**

Project Examination Pattern (for Vocational subjects)

Full Marks-10

A. Project Report – 07 marks

B. Viva Voce – 03 marks

C. Project Report should be handwritten and must be within 06 pages

The syllabus for different subjects of different streams are given below.

Principal ३/11/३१

Vikram Deb Higher Secondary School

Compulsory English (Arts/Science/Commerce)
Syllabus for +2 2nd Year 2nd Quarter-End Examination

Full Marks – 20
Time Allotted – 45 mins

(1) **Section–A** (6×1 = 6 Marks)

Topic — Direct and Reported Speech → Book–IV

(2) **Section–B** (3×2 = 6 Marks)

Topics — (i) On Examinations
(ii) The Ballad of Father Gilligan } Book–I

(3) **Section–C** (2×4 = 8 Marks)

Topics — (i) Mystery of the Missing Cap → Book–II
(ii) Interpretation of Pie-Charts,
Tables, and Bar Diagrams
(iii) Short Essay Writing } → Book–III

Subirudin
28.10.2021

Alternative English (Arts/Science/Commerce)

Syllabus for +2 2nd Year 2nd Quarter-End Examination

(1) Section-A (6x1 = 6 Marks)

Topics —
(i) Revision of Tense and Aspect
(ii) Prepositions and Phrasal Verbs
(iii) Modals

(2) Section-B (3x2 = 6 Marks)

Topics —
(i) Our Environment
(ii) Indian Children Speak

(3) Section-C (2x4 = 8 Marks)

Topics —
(i) The Watchman
(ii) Brochure & Pamphlet Writing
(iii) Dialogue Writing

Sanbandhin
20.10.2021

+2 III yr Science MIL(O)

I unit
(1) ପ୍ରଧାନ ଚେନାକ ଶିଖାଡ଼ିଲ୍ଲା

II unit
(1) ବାର୍ତା

III unit
(1) ପ୍ରଶାନା ପ୍ରଯୋଜନ

IV unit
(1) ପୂର୍ତ୍ତିଲ୍ୟାନ

Srikanti Soy
lect in odia

PHYSICS

Unit-I : 2. Electrostatic potential and capacitance:

Electric potential, potential difference, electric potential due to a point charge, potential due to a dipole, potential due to a system of charges. Equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipole in an electrostatic field. Conductors, insulators, free charges and bound charges inside a conductor, Dielectrics and electric polarization, capacitors and capacitance, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, combination of capacitors in series and in parallel, energy stored in a capacitor.

Unit-VI: 2. Waves Optics:

Wave front, Huygen's principle, Interference, Young's double slit experiment and expression for fringe width, coherent sources, sustained interference of light, diffraction due to a single slit, width of a central maximum, polarization, plane polarized light, Brewster's law.

Unit-VII Dual nature of Radiation and matter:

Dual nature of radiation, Photoelectric effect, Einstein's photoelectric equation, particle nature of light. Matter waves- wave nature of particles, de-Broglie relation.

PRACTICAL

1. To determine resistance per cm of a given wire by plotting a graph for V versus I.
2. To find resistance of a given wire and hence determine the resistivity of its material.
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 resistance and figure of merit of a galvanometer.
7. To find the focal length of a concave mirror.
8. To find the focal length of a convex lens.
9. To determine angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and the angle of deviation.
10. To draw the I-V characteristic curve of a P-N junction in forward bias and reverse bias.
11.To draw the characteristic curve of a zener diode and to determine its reverse breakdown voltage.

CHEMISTRY

Unit V: Surface Chemistry Adsorption –

physisorption and chemisorption, factors affecting adsorption of gases on solids, catalysts, colloidal state distinction between true solutions, colloids and suspension; lyophilic, lyophobic, multimolecular and macromolecular colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation, emulsion - types of emulsions.

Unit VIII: d and f Block Elements

General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals - metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation.

PRACTICAL

1.Preparation of Mohr's Salt
2. Double titration(2 Acid , 1 alkali)

Mathematics

F.M - 20.
time - 45 mins.

Syllabus for 2nd Quarter-End Examination (Science)

1. UNIT - III - Application of Derivatives.

2. UNIT - IV - Indefinite Integral.
   (Exercise - 9(A) — Exercise - 9(C).

Syllabus for 2nd Quarter End Examination-2021

Subject : Statistics

Class : +2 Second year Science

Theory Syllabus

Unit-III SAMPLING METHODS: Finite Population Sampling : Sample. Population. Sampling units, sampling frame. Principal Steps in sample Surveys. Census versus Sample Survey. Idea about questionnaire and schedule, sampling and non-sampling errors. Idea on simple random sampling with and without replacement. Methods of Drawing Random Samples; Lottery Method and Random Number table Method. Estimation of Population mean and Variance.

Practical Syllabus

Measurement of trend by moving averages and by Least Square (Straight line only) method.

Sri P K Sahu,VD HSS,JEYPORE

BIOLOGY Term-2
Syllabus

BOTANY

UNIT-I → Sexual Reproduction in plants
  (1) Development of male and female gam-gametophyte
  (2) Structure of flowers
  (3) Double fertilization
  (4) outbreeding devices
  (5) Development of endosperm

UNIT-II → Molecular basis of Inheritance
  (1) Gene expression & regulation — Lac operon
  2. DNA finger printing

26/10/20

ZOOLOGY

UNIT-I (b.ii) REPRODUCTIVE HEALTH

UNIT-IV (a) PRINCIPLES AND PROCESS OF GENETIC ENGINEERING (RDT)

26-10-21.

PRACTICAL (Botany)

Spotting

1. Experimental Set up Showing Conditions Necessary fo Germination
2. Experimental Set up showing Phototropism.
3. Study of Morphological Adaptation of Hydrophyte & Xerophyte

26/10/21

ZOOLOGY (spotting)

① Museum Specimen
② Appendicular skeleton of Rabbit
③ Histology (T.S / V.S)

26-10-21.

Food Processing (M.S)

Syllabus for +2 2nd year 2nd Quater-End Examination

Fullmark-20
Time allotted-45mins

① vocation Subject Book

    unit-1 → food Safety standards, Hygiene &
                Sanitation

    &

    unit-2 → Pastries, Cakes, Chocolates & Desserts.

② Employability Skills Book.

    unit 3 → Information & communication Technology
            Skills.

Employability Skills

Unit-2 — Self management skills

Session-1
Motivation & positive attitude

Session-2
Reasult orientation

Session-3
Self awareness

Vocational Skills

Unit-2 — customer centric services

Session-1
→ Define and explain customer-centricity of Hospitality.
→ Enumerate the importance of sales service as a tool of customer satisfaction.

Session-2
→ Define & clasiffy customers
→ Enumerate importance of customer-centric business facilitation & its influence on sales.

Session-3
→ Use the tools effectively to get feedback from customers.
→ write the importance of Planning the customer centric work system.

Prahamed Pande