



COUNCIL OF HIGHER SECONDARY EDUCATION, ODISHA
C/2, PRAJNAPITHA, SAMANTAPUR, BHUBANESWAR-751013

NOTIFICATION

No.14/2025(Con.)/ 4261 /CHSE(O), Date- 13.11.2025

In continuation of this Office Notification No.-EG-I/396/24/3809/CHSE(O), dtd.- 14.10.2025, and for further information/clarification of all concerned, the guidelines for adoption of Internal Assessment/Project Examination without having practical or having project components in Arts, Commerce, Science & Vocational Streams are laid down as follows:-

Guidelines for Internal Assessment/Project Examination

1. Internal Assessment/ Project Examination is mandatory for all registered regular candidates.
2. The Internal Assessment/Project Examination of A.H.S. Examination will be held from 22.12.2025 to 31.12.2025.
3. Internal Assessments/Project Examination will be held in Class-XII at the H.S. School level for Regular candidates only.
4. A Regular candidate must secure minimum pass mark of 6 out of 20 (Maximum Mark) and 3 out of 10 (Maximum Mark) in all Internal and Project components of AHSE-2026 respectively.
5. There shall be no Internal Exam/Project work for any Ex-Regular candidate.
6. If a student remains absent in Internal Assessment/Project Examination in a paper/subject, he/she will be declared as **fail**.
7. There shall be a uniform question pattern for Internal Assessment for all the subjects as mentioned in following paragraphs.
8. The question papers for Internal Assessment Test/Project work are to be set by the respective teachers of the H.S. Schools level by the subject teachers of the institution or of other H.S. Schools, in case of non-availability of subject teachers in the institutions or if the subject teacher is debarred from all CHSE activities.
9. Marks awarded in Internal Assessment/Project Examination are to be tabulated, and such tabulation registers for Class-XII are to be kept in lock and key, and will be treated as **TOP CONFIDENTIAL**. The marks awarded in Internal Assessment/Project Examination of Class-XII are part of Annual H.S./Annual H.S. Instant Examination, and so are not to be disclosed to anyone.
10. There will be no computerized mark foils for Internal Assessments/Project Examination.
11. Internal Assessment marks and the corresponding answer scripts of Class-XII are to be preserved till 6 (Six) months after publication of results of rechecking/re-addition of a particular year.
12. For Correspondence Course (Distance Education) students, Internal Assessments will be there for all those papers which are without practical/project components. Internal examination/having project work for the correspondence course students (Regular)

will be conducted through the H.S. School concerned where the student has taken admission on the said course.

13. If a regular candidate failed to appear in the internal /project examination in the first slot (22.12.2025 to 31.12.2025) due to any genuine reason, he/she can appear in same in the second slot in between 10.01.2026 to 15.01.2026. The exact dates of examination in the first and second slot shall be decided by the Principal of concerned HSS.
14. The Project work should be handwritten by the students within 6 pages (A4 Size paper) as assigned by the concerned subject teacher on the topic from the prescribed syllabus.
15. The examinations will be conducted under CCTV Surveillance.
16. The remuneration shall be paid to the personnel for conduct of Internal Examinations/Project Work as per the following rates out of the retained money of Rs.10/- per paper for the said purpose:

Sl. No.	Personnel	Remuneration
1.	Preparation of Question Paper (QP) & Evaluation of answer script/project work by the subject teacher	Rs.5/- per candidate/per paper
2.	Supply of question papers & answer script to the students containing 4 pages/2 sheets for Internal Assessment & 6 pages/3 sheets for project work of commerce stream	Rs.3/- per candidate/per paper
3.	Online feeding of marks by DEO through SAMS portal	Rs.1/- per candidate/per paper (Internal Assessment & Project work)
4.	Contingent expenditure	Rs.1/- per candidate/per paper

17. Pattern of Question

A. Internal Assessment : (F.M:20 for a paper having Maximum Marks 100)

Duration 45 minutes

Marks-20

- | | | |
|--------------------|---|------------|
| i. | MCQ 5 Questions of 1 mark each | 1x5 =5 |
| ii. | Objective type Question (3 out of 5)
Containing 2 marks each | 2x3 =6 |
| iii. | Objective type question (3 out of 5)
Containing 3 marks each | 3x3 =9 |
| Total marks | | =20 |

B. Internal Assessment : (F.M:10 for a paper having Maximum Marks 50)

Duration 30 minutes


Marks-10

- | | | |
|--------------------|---|------------|
| i. | MCQ 5 Questions of 1 mark each | 1x3 =3 |
| ii. | Object type Question (1 out of 2)
Containing 2 marks each | 2x1 =2 |
| iii. | Objective type question (1 out of 2)
Containing 3 marks each | 5x1 =5 |
| Total marks | | =10 |

18. Topic/units/portions earmarked for INTERNAL ASSESSMENT:


Strictly following the pattern given vide Notification No.-1805/Dtd.-10.05.2024,
No.3416/Dtd.-21.09.2024.

By order of the Chairman


Controller of Examinations
13/11/23

Memo No.4262 /CHSE (O), Dated-13/11/2025

Copy forwarded to the Addl. Secy. to Govt., Dept. of S & ME, Bhubaneswar/ Director, Higher Secondary Education Odisha, Bhubaneswar, for information.


Controller of Examinations
13/11/23


Memo No.4263/CHSE (O), Dated-13/11/2025

Copy forwarded to the Principals/ Heads of All Higher Secondary Schools Affiliated to CHSE (O) for information and they are requested to bring it to the notice of the students.


Controller of Examinations
13/11/23

Memo No.4264/CHSE(O), Dated-13/11/2025

Copy forwarded to P.S. to the Chairman C.H.S.E(O) for kind information of the Chairman/ Dy. Secretary (Zone Offices of C.H.S.E)/ All Officers of C.H.S.E(O)/ All Section Officers for information and necessary action.


Controller of Examinations
13/11/23

COUNCIL OF HIGHER SECONDARY EDUCATION, ODISHA

Prajnapitha, Samantapur, Bhubaneswar-13

No. Acd/ 12/2016 (Pt) 1805 CHSE(O),. Dated- 10.05.2024

Guideline for Internal Assessment

In pursuance of approval of Academic Committee and subsequent decisions in the meeting of respective Syllabus Committees, the guidelines for adoption of Internal Assessment as a part of continuous and comprehensive evaluation system in the subjects or papers without having practical or project components in Arts, Commerce, Science and vocational stream are laid down as follows:

1. From the academic session 2024-25, subjects/papers of Arts, Commerce, Science and Vocational stream for which maximum mark allotted in syllabi is 100(one Hundred) and are without practical/project components (such as all MILs(Odia, English, Sanskrit, Urdu, Hindi, Telgu, Bengali) shall have two components: Internal Assesment (20 marks) and Annual/Test/Final Examination(80 marks). However, in vocational stream, the papers like compulsory English and MILs like Odia, Telgu, Urdu, Bengali, Sanskrit etc, having maximum mark 50(Fifty), total mark for Internal Assesment shall be 10 and total mark for final/Annual examination shall be 40
2. Internal Assessments will be held both in class-XI and class-XII at the H.S.School level.
3. The Unit/Portion dedicated for internal assessment (20 marks) in class-XII will be excluded from Annual/Instant H.S.examination syllabi(80 marks)
4. Total marks to be awarded to a student in a subject/paper having Internal assessment component shall be the total marks obtained in the Internal

~~assessment~~ and in Annual H.S Examination from/Annual H.S.(Instant) Examination in that subject/paper.

For example, in Sociology paper (F.M:100), if a student secures 15 marks(out of 20)in internal assessment and 60 (out of 80) in the Annual H.S Examination, then, he/she will be awarded 75 (15+60) marks in the Annual H.S/Annual H. S. Instant Examination, and this will imply that the student has secured 75 marks out of Maximum marks allotted for the paper/subject 100.

5. If a student remains absent in internal assessment in a paper/subject, his/her marks secured in Annual H.S. Examination out of 80 marks/40 marks shall be treated as marks secured from 100/50 as the case may be.
6. There shall be a uniform question pattern for internal assessment for all the subjects as mentioned in following paragraphs.
7. The internal assessment system shall be effective from the session 2024-25 for the students of class XII appearing Annual H.S Examinations 2025 and Students enrolled in Class XI during 2024.
8. There will be one internal assessment for each of the papers/subjects having internal Assessment component in class-XI and XII. The schedule for Internal Assessments for class XI will be notified by the head of institution. Internal assessment tests for class-XII shall be held as per the schedule mentioned in the academic calendar notified by the Council or revised schedule(if necessary) to be notified by the Council in due course of time. The question papers for internal assessment tests are to be set by the respective teachers of the H.S.Schools, and the scripts are to be evaluated at H.S.School level by the subject teachers of the institution or of other H.S.Schools, in case of non availability of subject teachers in the institution. There shall be no remuneration for evaluation of internal assessment scripts.

9. Marks awarded in Internal Assessment are to be tabulated, and such tabulation registers for class-XII are to be kept in lock and key, and will be treated as **TOP CONFIDENTIAL**.
10. The marks awarded in internal assessment of class-XII are part of Annual H.S./Annual H.S. Instant examination, and so are not to be disclosed to any one.
11. Internal assessment marks and the corresponding answer scripts of class-XII are to be preserved till 6(six) months after publication of results of rechecking/re-addition of a particular year.
12. For Correspondence Course(Distance Education) students, **Project paper examination** will be there in place of Internal assessments for all those papers which are without practical/project components. For this purpose, Distance Education Section of the Council will take steps to upload the model topics of Project work to be done in each paper/subject in the council website, and the students are to submit the project work in their respective institutions.

Pattern of Question

Internal Assessment: (F.M:20 for a paper having Maximum Marks 100)

Duration 45 minutes

Marks-20

- | | |
|--|--------|
| i. MCQ 5 Questions of 1 mark each | 1x5 =5 |
| ii. Objective type Question (3 out of 5)
Containing 2 marks each | 2x3 =6 |
| iii. Objective type question (3 out of 5)
Containing 3 marks each | 3x3=9 |

Total marks = 20

Pattern of Question

Internal Assessment: (F.M:20 for a paper having Maximum Marks 50)

Duration 45 minutes

Marks-10

- | | |
|--|--------------|
| i. MCQ 5 Questions of 1 mark each | 1x3 =3 |
| ii. Objective type Question (1 out of 2)
Containing 2 marks each | 2x1 =2 |
| iii. Objective type question (1 out of 2)
Containing 3 marks each | <u>5x1=5</u> |

Total marks = 10

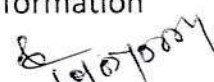
Topics/ Units/Portions earmarked for internal assessment are attached in Annexure-I

By order of the Chairman


Secretary

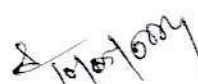
Memo No 1806 dated...10.05.2024

Copy forwarded to the Addl.Secy to Govt., Dept of S&ME, Bhubaneswar/
Director, Higher Secondary Education Odisha, Bhubaneswar, for information


Secretary

Memo No 1807 dated...10.05.2024

Copy forwarded to the Principals/Heads of All Higher Secondary Schools
Affiliated to CHSE(O) for information and they are requested to bring it to the
notice of the students.


Secretary

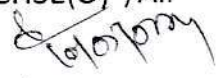
Memo No 1808 dated.....10.05.2024

Copy forwarded to the Controller of Examinations C.H.S.E (O) for information and necessary action


Secretary

Memo No 1809 dated.....10.05.2024

Copy forwarded to P.S to the Chairman CHSE (O) for kind information of the Chairman/ Dy Secretary (Zone Offices of CHSE)/ All Officers of CHSE(O) /All Section officers, for information and necessary action.


Secretary

Annexure-I

Topics/ Units/Portions earmarked for internal assessment. These portions shall not be evaluated in Annual H.S Examinations

Sl No	Subject	Class	Contents for Internal Assessment
1	English Compulsory	XI	Unit-I Prose (Topics to be Covered) 1. Chapter- (i)- Standing Up for yourself – Yevgeny Yevtushenko 2. Chapter-(ii)- The Legend Behind a Legend – Hariharan Balakrishnan Unit-II Poetry (Topics to be covered) 1. Chapter (i) Stopping by Woods on a Snowy Evening- Robert Frost 2. Chapter (ii)- Oft. in the Stilly Night- Thomas Moore Unit-III Non-Detailed study (Topics to be covered) 1. Chapter (i) Three Questions- Leo Tolstoy 2. Chapter (ii) After Twenty Year- O Henry
	English Compulsory	XII	Unit-I Prose (Topics to be Covered) 1. Chapter (i) My Greatest Olympic Prize - Jesse Owens Unit-II Poetry (Topics to be covered) 1 Chapter (i) Daffodils - William Wordsworth Unit-II Non-Detailed study (Topics to be covered) 1. Chapter (i) Doctor's Word -R.K. Narayan 2.Chapter (ii) The Nightingale and the Rose - Oscar Wilde
2	Alternative English	XI	Unit-I Prose 1. Chapter- (i) The Adventures of Learning Unit-II Poetry 1. Chapter (i) Ecology (A. K Ramanujan) 2. Chapter (ii) Dog's Death (John Updike) Unit-III Short Stories 1. Chapter (i) The Rainbow Bird (Vance Palmer) Unit-IV One- ACT Plays 1. Mother's Day (J.B Priestley)
	Alternative English	XII	Unit-I Prose 1. Chapter- (i) The Winder World of Science Unit-II Poetry 1. Chapter (i) Indian Children Speak (Juanita Bell) Unit-III Short Story 1. The Happy Man (W. S Maugham) One Act Play

			The Hour of Truth (Percival Wilde)
3	MIL (Odia) ଆଧୁନିକ ଭାରତୀୟ ଭାଷା (ବାଧ୍ୟତା ମୂଳକ) (ଓଡ଼ିଆ)	XI ପ୍ରଥମ ବର୍ଷ ପ୍ରଥମ ଭାଗ	ଚତୁର୍ଥ ଏକକ (ବୋଧଜ୍ଞାନ ପରୀକ୍ଷଣ) (୨୦) ୧. ଅବବୋଧ ପରୀକ୍ଷଣ (କ) ଗଦ୍ୟାଂଶ (ଖ) ପଦ୍ୟାଂଶ ୨. ସମ୍ବନ୍ଧ ଲିଖନ (କ) ଅବବୋଧ ପରୀକ୍ଷଣ ନିମନ୍ତେ ଏକ ଗଦ୍ୟ ଅନୁକ୍ରେମ ଦିଆଯିବ । ପ୍ରତ୍ୟେକ ପ୍ରଶ୍ନର ଉତ୍ତର ଗୋଟିଏ ବାକ୍ୟରେ ଦେବାକୁ ହେବ । (ଖ) ଗୋଟିଏ ଅଜ୍ଞାତ କବିତା ଦିଆଯିବ । ସେଥିରୁ ୫ଟି ପ୍ରଶ୍ନ ପଢ଼ିବ । (ଗ) ସାଂପ୍ରତିକ ଘଟଣାକ୍ରମକୁ ଆଧାର କରି ସମ୍ବନ୍ଧ ପ୍ରସ୍ତୁତ କରାଯିବ ।
	MIL (Odia) ଆଧୁନିକ ଭାରତୀୟ ଭାଷା (ବାଧ୍ୟତା ମୂଳକ) (ଓଡ଼ିଆ)	XII ଦ୍ୱିତୀୟ ବର୍ଷ	ପ୍ରଥମ ଏକକ (ଗଦ୍ୟ) ୧. ଇତିହାସ- ବିଶ୍ୱନାଥ କର (୫) ଦ୍ୱିତୀୟ ଏକକ (ପଦ୍ୟ) ୫ ପିନ୍ଧିଙ୍ଗଲାର ଅଭିଯାନ -ରାଧାମୋହନ ଗଡ଼ନାୟକ (୫) ଚତୁର୍ଥ ଏକକ (ବୋଧଜ୍ଞାନ ପରୀକ୍ଷଣ) (କ) ଗଦ୍ୟାଂଶ (୧୦)
4	Odia (Elective) ଇଚ୍ଛାଧୀନ ଓଡ଼ିଆ କଳାସ୍ରୋତ ନିମନ୍ତେ	XI ପ୍ରଥମ ବର୍ଷ ପ୍ରଥମ ଭାଗ	ପ୍ରଥମ ଏକକ ମଧ୍ୟକାଳୀନ କାବ୍ୟ ମଥୁରା ମଙ୍ଗଳ- ଭକ୍ତ ଚରଣ ଦାସ (୨୦)
	Odia (Elective) ଇଚ୍ଛାଧୀନ ଓଡ଼ିଆ କଳାସ୍ରୋତ ନିମନ୍ତେ	XII ଦ୍ୱିତୀୟ ବର୍ଷ	ଦ୍ୱିତୀୟ ଭାଗ ଆଧୁନିକ କବିତା (୨୦)
5	Hindi (MIL)	XI	Unit III काव्य भाग i) कबीरदास - दोहे ii) सुमित्रानंदन पंत - भारतमाता Unit- IV : गद्य भाग i) प्रेमचंद - जीवन मे साहित्य का स्थान Unit- V : कहानी ii) जयशंकर प्रसाद — ममता
	Hindi (MIL)	Class XII	Unit III काव्य : i) रहीम - दोहे iv) निराला - वीणा वादिनी वट है, बादल एग Unit IV गद्य पाठ : i) बालकृष्ण भट्ट - आत्मानिर्भरता Unit V i) अज्ञेय - खितीन बाबू

6	Hindi (Elective)	XI	Unit I- प्रमचन्द - (केवल लेखक परिचय) Unit II जय शंकर प्रसाद (लेखक परिचय, और, ध्रुवस्वामिनी अंक -I Unit III साहित्यिक विधाएँ : उपन्यास, नाटक
	Hindi (Elective)	XII	Unit I- काव्य : दिनकर (केवल, ४ सर्ग) Unit II गद्य : रामचन्द्र शुक्ल - करुणा Unit III कहानी : अज्ञेय - शरणदाता
7	Sanskrit (M.I.L)	XI	Prose: मनुमत्स्याख्यानम् (Manumatsyakhyanam) Poetry: सुभाषितावली (Subhasitavali)
	Sanskrit (M.I.L)	XII	Prose: सुश्रुतस्य यन्मकर्मशस्त्रकर्माणि (Susrutasya Yantrakarmasastrakarmini) Poetry: गीतासवरभम् (Gitasourabham)
8	Sanskrit (Elective)	XI	Prose: ससोमिराकथा (Sasemirakatha) History of Sanskrit literature : विष्णुशर्मा - Visnusarma
	Sanskrit (Elective)	XII	Poetry: चाणक्यनीतिः - Canakyanitih Topics from the Grammar text : शब्दरूप (Sabdarupa)
9	Bengali (MIL)	XI	NOVEL - (Non-Detailed) Srikanta - Sarat Chandra Chattopadhyay
	Bengali (MIL)	XII	PROSE : 1. Aranyak - Bibhuti Bhusan Bandopadhyay 2. Naisha Avijaa - Sarat Ch. Chattopadhyay 3. Bangia Bhasa - Haraprasad Sastri
10	BENGALI (ELECTIVE)	XI	Short - Story 1. Chhuti - Rabindranath Tagore 2. Mahesh - Sarat Ch. Chattopadhyay
	BENGALI (ELECTIVE)	XII	Story Post Master, Dena paona, Bartan
11	Urdu (MIL)	XI	Prose : Unit I - i) Qaumi Hamdardee- Altaf Hossain Maali Poetry :Unit II- Aata Dal - Nazir.Akberabadi Ghazaliyat - Ghalib ki Gazal Unit III- Non detailed Studies : Taubatun Nosuh (Only 1 st part of the book)
	Urdu (MIL)	XII	Prose: Unit I Haqeeqi Azmat - Moulana Abul Kalam Azad. Poetry :Unit I- Wadei-e -Ganga Mein ek Raat- Akhtar Shirani Ghazaliyat - Hasrat ki Gazal Non detailed Studies : Taubatun Nosuh (Only 4 th part of the book)
12	Urdu (Elective)	XI	Unit I-History of Urdu Literature (Prose). TANWEER-E-ADAB by : Saghir Ahmad Jaan (only chawtha

			<p>daur)</p> <p>Unit II- Drama : RUSTAM-O-SOHRAB by: Agha Hashar (only 1st Part)</p> <p>Unit III Short Story (Afsana)</p> <p>Numainda Mukhtesar Afsane by : Taher Farooqui (i. I.C.S, ii. Jine ke Liye)</p>
	Urdu (Elective)	XII	<p>Unit : I - KALAM-E-MEER by : Abdul Mannan Bedil</p> <p>Portions to be studied:</p> <ol style="list-style-type: none"> Meer Ki Ghazaliyat – Only "Radif Alif" Meer ki Masnawi – (a) Jhoot (b) Duniya- Meer ki Hayat <p>Unit II - CHAND HAM ASAR by : Maulana Abdul Haque</p> <p>Portions to be studied : (a) Mohesnul Mulk , (b) Maulana Mohammed Ali Marhoom (c) Haali</p>
13	Telgu (MIL)	XI	<ol style="list-style-type: none"> Ekalavyudu - Nannaya Bhattu (Only Unit – I) C.P. Brown Sahitya Seva - Prof. K. Sarvothama Rao (only Unit –II) Raja Raja Prasasti - Prof..S. Gangappa (Unit III, Page 1-20)
	Telgu (MIL)	XII	<ol style="list-style-type: none"> Jateeyata - Dr. Nagabhairava Koteswara Rao (Unit – i) Veyipadagalu Samajika Drukpadham - Dr. Singupuram Nayayana Rao (Unit II) Rudrama Devi - Smt. P.B. Kausalya (Unit III)
14	Telgu (Elective)	XI	<ol style="list-style-type: none"> Satyabhama Santwanam - Nandi Timmana (Unit I) . Gramanama Vignyanamu - Dr. Singupuram Narayana Rao (Unit II) Varadu - Dr Kandimalla Sambasiva Rao (Unit III)
	Telgu (Elective)	XII	<ol style="list-style-type: none"> Sreekalahasteeswara - Dhurjati Mahakavi (Unit I) Desabhimanam - Kandukuri Veeresalingam (Unit II) History of Telugu Literature - Nannaya, Rayalu, Kandukuri
15	History	XI	<p>Unit-I</p> <ol style="list-style-type: none"> History : Meaning and Relevance History of Human Evolution: <ol style="list-style-type: none"> The Precursor of Modern Human Beings Modern Human Beings: <ol style="list-style-type: none"> Early Humans ways of obtaining food. Habitat-Trees to caves and open air sites. Making of tools Modes of communications-Language

			<p>and art.</p> <p>c) Epilogue- Domestication of animals, plants; development of farming and pastoralism as a way of life.</p> <p>3. Contributions of Ancient River Valley Civilisation:</p> <p>A) Egypt</p> <p>b) Mesopotamia</p> <p>c) China</p>
	History	XII	<p>Unit-I</p> <p>1. Sources of Indian History : Archaeological, Literary, Foreign Accounts and Archival</p> <p>2. Foundation of Indian Culture:</p> <p>a) Harappan culture: Discovery, Geographical extent, Town planning, structures, Agriculture, Domestication of Animals, Technology and Craft, Trade, Contact with distant lands, Scripts, Weights, measurement, Religious beliefs, Seals.</p> <p>b) Rig Vedic and later Vedic-Age-Socio-Economic life, Political organization, Religious Beliefs, Position of women.</p> <p>3. The Earliest states: Sixteen Mahajanapadas.</p>
16	Political Science	XI	<p>Political Theory</p> <p>Unit-I</p> <p>1. Political Theory: An Introduction- What is Politics? Nature and scope of Politics; Usages of Political Theory .</p> <p>2. State: Definition; Elements of state.</p> <p>3. Nature of state Activity: Individualism; Welfare state; Globalisation.</p>
	Political Science	XII	<p>Unit-I</p> <p>1. Democracy: Meaning, Types and Features; Challenges to Democratic Process in India- Inequality, Illiteracy, Regionalism, Naxalite Problem, Gender Inequality.</p> <p>2. Party system in India: Meaning, Types; One Party Dominance, Coalition Politics;</p>

			Regional Parties.
17	Sociology	XI	Unit- I Sociology & Its Relationship: Emergence, Meaning, Nature and Scope Relationship of Sociology with social Sciences- History, Economics, Anthropology, Psychology, Political Science
	Sociology	XII	Unit-I: Introducing Indian society <ul style="list-style-type: none"> • Composition of Indian Society-Demographic, Geographical, Racial, Linguistic, Religious, Tribal • Unity & Diversity-Factors of Unity & Diversity
18	Logic	XI	Unit-I Nature of Logic: Definition of Logic, Structure of Argument, Sentence and proposition truth and validity, sound and unsound arguments, Principals of Logic. Logic and Language : use of language, words and terms, Denotation, Connotation ,intention and Extension.
	Logic	XII	The Theory of Inference: Classification of inference, Conversion, Obversion. Categorical Syllogism: Structure, Figure, mood, Rules of syllogism, Determination of valid moods.
19	IRPM (Industrial Relations and Personal Management)	XI	Unit- I : (Only from (a) to (f)) Industrial Relation and Trade Unionism :- <ol style="list-style-type: none"> a) Meaning and Definitions of industrial Relations b) Objectives and scope of Industrial Relations c) Significance of Industrial Relations d) Meaning, Aims and Objectives of Trade Union e) Functions of Trade Union f) Types of Trade Union-Craft Union, Industrial Union and General Union
	IRPM (Industrial Relations and Personal Management)	XII	Unit-I: (Only from (a) to (e)) Personnel management. <ol style="list-style-type: none"> a) Meaning and Definition of Personnel Management b) Objectives and Scope of Personnel Management

			c) Importance of Personnel Management d) Functions of personnel Management e) Growth and Development of Personnel Management
20	Economics	XI	First Unit (status of Indian Economy) and a part of the 3 rd Unit (Economic Planning)
	Economics	XII	(Elementary Micro & Macro economics Paper), A-Unit-I (Introducing micro Economics) and a part of a- Unit-II (Laws of consumption & demand)
21	Mathematics	XI	1. Mathematical Reasoning- Proposition, composite proposition, connectives and their operation, Logically true/false statement using truth table. 2. Polar representation of complex number cube root of unit and relation between roots. Relation between polar and cartesian coordinates. De. Moivre theorem and its application.
	Mathematics	XII	1. Domain and Range of function, composition of function, Inverse function 2. Find limiting value of indeterminate form ($0/0$, ∞/∞ , 0^0 , 1^∞ , etc.) 3. Equation of tangents and normal and simple problems 4. Formulation of L.P.P

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