

**ODISHA STAFF SELECTION COMMISSION**

Unit – II, Bhubaneswar – 751001

Advertisement No.IIE-63/2024-4231 /OSSC; Date: 22.10.2024

**Recruitment for 6025 posts of Leave Training Reserve (LTR) Teachers for Government
Secondary Schools under the S&ME Department, Odisha, Bhubaneswar.**

(POST CODE:438)

(WEBSITE: www.osscc.gov.in)**1. Application Invited:**

	Start Date	End Date
Online Registration	30.10.2024	29.11.2024
Submission of Online Application Form	30.10.2024	02.12.2024
Date of editing of Online Application form	30.10.2024	04.12.2024
Mode of Application	Online Mode only through the website " www.osscc.gov.in ". No Physical copy/Hard copy of the Online Application Form needs to be submitted by the applicant.	

- a. The Recruitment, appointment and conditions of service shall be guided by **School & Mass Education Department Resolution No.24570/SME dated 30.09.2024 & Orissa Staff Selection Commission Rules, 1993 and as amended.**
- b. Applications are invited online through the OSSC website "www.osscc.gov.in" from candidates for recruitment to fill up vacancies in the following post(s) of Leave Training Reserve (LTR) Teachers for Government Secondary Schools under S&ME Department, Odisha, Bhubaneswar.

Name of the Post	Group of Post/ Service	Scale of Pay & Level
TGT ARTS TGT SCIENCE (PCM) TGT SCIENCE (CBZ) HINDI TEACHER, CLASSICAL (SANSKRIT) TEACHER, TELUGU TEACHER, URDU TEACHER	Group-B	LEVEL 9 of ORSP, 2017 35,400/- per month
PHYSICAL EDUCATION TEACHER	Group-C	LEVEL 8 of ORSP, 2017 29,200/- per month
Note- The above posts will carry usual DA and other allowances as admissible under Rules from time to time.		

- c. Candidates must possess a valid e-Mail Id and Mobile number while applying for the post and must keep the same active till the completion of this recruitment process, to receive important messages from the Commission.

- d. The prescribed age limit for the post is **21 years to 38 years as on 01.01.2024** with usual age relaxation for SC, ST, SEBC, Women, PwD, Ex-Serviceman.
- e. The examination fee has been exempted for all categories of candidates as per GA & PG Department Notification No.9897/Gen dated 11.04.2022.
- f. There shall be regular appointments carrying level of Pay as mentioned above. Appointment shall be guided by "Odisha Group-B (Repeal and Special Provisions) Rules, 2022 notified vide GA and PG Department Notification number 2946 dated 16th October 2022.
- g. Candidates should ensure that they fulfil all the eligibility criteria prescribed for the post as laid down in the advertisement. Admission of a candidate to the written examination & other tests shall be provisional and on the basis of information furnished by her/him in the Online Application Form.
- h. **Candidates may apply for more than one post**, if he/she is eligible for those posts in all respect i.e. he/she must have requisite educational qualification for those posts as mentioned in clause-3(b) of Advertisement & must have passed OSSTET in concerned subjects as applicable for those posts. If he/she fails to submit requisite documents/certificates & mark sheets for those posts his/her candidature for the post/posts shall be rejected/cancelled.
- i. For those eligible for and applying for more than one post/ service, the Commission will make the final allotment to post/ service on the basis of merit-cum-preference of post/ service given by the candidate and once a post is allotted, no change of posts will be made by the Commission due non-fulfilment of any post-specific requirements of Physical/medical/educational standards, etc. Candidates thus must ensure that they fulfil all the requirements of the posts before giving their preference/options for any post/ service.
- j. Online applications submitted to OSSC found to be incomplete in any respect are liable for rejection without entertaining any correspondence with the applicants on that matter.
- k. If at any stage of recruitment or thereafter, it is found that any information furnished by the candidate in her/his Online Application Form is false/incorrect or the candidate has suppressed any relevant information or the candidate otherwise does not satisfy the eligibility criteria prescribed for the post, her/his candidature for the posts shall be cancelled. She/ He may further be debarred either temporarily or permanently from the recruitment examination(s) conducted by the Commission.
- l. Commission will adopt a **"Normalisation Formula"** published in Commission's website vide Notice No.2444/ OSSC dated 02.09.2021 for processing the result where the examination is conducted through CBRE (Computer Based Recruitment Examination) mode in multiple batches using different sets of question papers so as to offset the difficulty level that may arise in such use of multiple set of question papers in the said examination, and such normalized score will be used to determine last selection marks.
- m. No Admission Letter for recruitment at any stage shall be sent to candidates by post. The candidates are therefore advised to access Commission's website www.osscc.gov.in regularly to know updates regarding the date of examination, downloading of Admission Letter and the status of their applications etc.

- n. The candidates are advised to submit the Online Application Form well in advance without waiting for the closing date to avoid the last-hour rush.

NOTE: Important instructions to candidates about filling up of Online Application and "How to Apply" is enclosed as Annexure-A to this advertisement.

2. a) Post-wise and Category-wise break-up of vacancy positions along with reservation thereof:

Sl. No.	Name of the Post	Category wise vacancy									
		UR		SEBC		SC		ST		Grand Total	
		Total	Out of which Female	Total	Out of which Female	Total	Out of which Female	Total	Out of which Female	Total	Out of which Female
1	TGT ARTS	993	328	223	74	322	106	446	147	1984	655
2	TGT SCIENCE PCM	510	168	115	38	166	55	229	76	1020	337
3	TGT SCIENCE CBZ	440	145	99	33	143	47	198	65	880	290
4	Hindi Teacher	356	117	80	27	115	38	160	53	711	235
5	Sanskrit Teacher	365	121	82	27	118	39	164	54	729	241
6	Telugu Teacher	3	1	1	0	1	0	1	0	6	1
7	Urdu Teacher	7	2	2	0	2	1	3	1	14	4
8	PET	341	113	76	25	111	37	153	50	681	225
Grand Total		3015	995	678	224	978	323	1354	446	6025	1988

UR-Unreserved

SEBC-Socially and Educationally Backward Class

SC-Scheduled Caste

ST-Scheduled Tribe

W-Women

NOTE:

1. Candidates belonging to the Transgender community are also eligible to apply.
2. The number of vacancies and other conditions of vacant posts to be filled up on the basis of this recruitment are subject to change without any prior notice as per discretion of the Commission, the Requisitioning Authorities and the Government.

- b) Out of the above vacancy position the special category reservation is given below:

Sl. No.	Name Of Post	Special Category		
		PwD	Ex-Serviceman	Sports Person
1	TGT ARTS	79 (w-27)	60	20 (w-07)
2	TGT SCIENCE PCM	41 (w-12)	31	10 (w-03)
3	TGT SCIENCE CBZ	35 (w-12)	26	9 (w-03)
4	Hindi Teacher	28 (w-9)	21	7 (w-2)
5	Sanskrit Teacher	29 (w-10)	22	7 (w-2)
6	Telugu Teacher	0	0	0
7	Urdu Teacher	1 (w-0)	0	0
8	PET	0	20	7 (w-03)
Total		213 (w-70)	180	60 (w-20)

- The special category (PwD/Ex-Servicemen/Sports Person) candidates must upload valid & clearly visible certificates supporting their claim failing which, their claim will not be considered.
- As per the Social Security & Empowerment of Persons with Disabilities Department, Govt. of Odisha Resolution No.1843/SSEPD Dtd.25.02.2021 the PwD candidates having disability of permanent nature not below 40% in the following categories and Benchmark disability & Functional Requirements shall be eligible to apply for the post.

Sl. No.	Name of the post	Category I		Category II		Category III		Category IV		Grand Total	Total Women
		Total	Women	Total	Women	Total	Women	Total	Women		
1	TGT ARTS	20	7	20	7	20	7	19	6	79	27
2	TGT SCIENCE PCM	11	3	10	3	10	3	10	3	41	12
3	TGT SCIENCE CBZ	9	3	9	3	9	3	8	3	35	12
4	Hindi Teacher	0	0	10	3	9	3	9	3	28	9
5	Sanskrit Teacher	0	0	0	0	15	5	14	5	29	10
6	Telugu Teacher	0	0	0	0	0	0	0	0	0	0
7	Urdu Teacher	1	0	0	0	0	0	0	0	1	0
8	PET	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL		41	41	13	49	16	63	21	60	20	213

Exemption of Posts from reservation for PwD has been approved by the Competent Authority as per provision contained in Para 11 of Resolution No 1843/SSEPD, Dt. 25.02.2021 of Govt. in SSEPD Department.

****POST-WISE DETAILS OF TYPES OF BENCHMARK DISABILITY FROM CATEGORY-I TO IV ELIGIBLE TO APPLY FOR THE ABOVE POSTS WILL BE COMMUNICATED SHORTLY.**

N.B.:

- PwD candidates are not eligible to apply for the post of Physical Education Teacher.
- For vacancies not earmarked as PwD reservation for a particular post, candidates are not allowed to apply for the said post in their respective caste category. However, PwD category who are able to perform as per the physical requirements mentioned below may only be considered to apply in their respective caste category without PwD reservation.

Physical Requirements required to perform the work:

H	Work Performed by Hearing/Speaking
R&W	Work performed by Reading and Writing

S/ST	Work Performed by Standing only
SE	Work performed by seeing/ seeing with assistive aid
Must be able to write on Black Board/ White Board/ Smart Board and able to use chalk, pen, pencil by hand.	

c) Provision of assistance of Scribe

PwD candidates with disabilities not less than 40% of permanent nature and limitations in writing have the option to use her/his own scribe with prior permission of the Commission separately for each stage of examination. The intending candidates must give option for scribe in the appropriate place while filling up the Online Application Form.

- d) She/ He must submit the following documents as mentioned in the Advisory Notice No.3453/OSSC Dt.24.10.2019, available on the website of the Commission, to the Commission within the stipulated duration.
- Copy of the undertaking Form in Appendix -II duly filled and signed by both the candidate and the scribe.
 - Copy of the disability Certificate of the candidate.
 - Certificate in Appendix-I given by Medical Authority for physical limitation in writing in respect of the candidates having disabilities.
 - Copy of the admission letter of the candidate.
 - Copy of ID proof of the scribe duly signed by the candidate.
 - Copy of the highest educational qualification certificate of the scribe duly signed by the candidate. Educational qualification of the scribe must be lower than prescribed educational qualification of the recruitment.
- e) PwD candidates must ensure that they possess permanent disability certificate and must upload the scanned copy of the original (not photocopy) UDID card issued by the competent authority.
- f) In case of non-availability of eligible/suitable women candidates belonging to the respective categories; the unfilled vacancies of that category shall be filled up by eligible or suitable male candidate(s) of the same category.

3. Eligibility:

(a) General criteria of eligibility: -

Candidates applying for the above posts should be

- a citizen of India,
- of good character,
- of sound health, good physique and free from organic defects or bodily infirmity
- If married, must not have more than one spouse living
- Be able to read and write Odia with any of the following qualification:-

- i. Have passed HSC Exam conducted by the Board of Secondary Education, Odisha or any equivalent examination with Odia as a Language Subject i.e. First / Second or Third Language. or
- ii. Have passed +2 / Higher Secondary Examination conducted by the Council of Higher Secondary Education, Odisha with Odia as an examinable subject. or
- iii. Have passed Odia Examination of HSC (10th) standard conducted by the BSE, Odisha.

(b) Minimum Educational Qualification:

Minimum educational qualifications prescribed for the posts of Trained Graduate Teachers ARTS, Science (PCM), Science (CBZ), Hindi Teacher, Classical (Sanskrit) Teacher, Urdu Teacher, Telugu Teacher and Physical Education Teacher in Govt. Secondary Schools.

SL. NO.	POST NAME	MINIMUM ACADEMIC AND PROFESSIONAL QUALIFICATION
1	TGT ARTS	Bachelor Degree in Arts/ Commerce or a Shastri (Sanskrit) Degree from a recognised university with two school subjects (school subjects as defined in the proviso here under) from a recognized university having 50% marks in aggregate (45% for SC/ST/PwD/SEBC candidates) and Bachelor in Education (B. Ed)/ 3-year integrated B.Ed. - M.Ed. from any NCTE recognized institution. OR Four-year integrated B.A. B.Ed. from any NCTE recognized institution with two school subjects (school subjects as defined in the proviso here under) having 50% marks in aggregate (45% for SC/ST/PWD/SEBC candidates) Provided that: In any case the candidate must have passed the Bachelor Degree with any two school subjects offered as pass/ honours / elective/ optional/ compulsory/foundation subject out of the following: English, Odia, Hindi, Sanskrit, History, Geography, Economics, Political Science, Indian Economy, Landmarks in Indian History, Indian Geography, Indian Polity, *Business Economics and *Communicative English.

		* Candidates possessing a Pass/ Hons/ Elective/ Optional/ Compulsory/ Foundation subject in Communicative English and/or Business Economics are provisionally allowed to participate in the recruitment process. However, their candidature shall be subject to the result of the SLP Dairy No.27260/2023, 27251/2023, 27254/2023, 27259/2023, 18321/2023, 29175/2023, 32557/2023, 44871/2023, 38752/2023 and other similar cases pending before Hon'ble Court.
2	TGT SCIENCE (PCM) OR TGT SCIENCE (CBZ)	Bachelor Degree in Science/ B. Tech/ B.E. with two school subjects (school subjects as defined in the proviso here under) from a recognized university having 50% marks in aggregate (45% for SC/ST/PWD/SEBC candidates) and Bachelor in Education (B. Ed)/ 3-year integrated B.Ed. - M.Ed. from any NCTE recognized institution. OR Four-year Integrated B. Sc. B.Ed. from any NCTE recognized Institution with two school subjects (school subjects as defined in the proviso here under) having 50% marks in aggregate (45% SC/ST/PWD/SEBC Candidates) Provided that: In any case the candidate must have passed the Bachelor Degree with any two school subjects offered as Pass/ Hons/Elective/Optional/Compulsory subject out of the following: a) For Trained Graduate Teacher-Science (PCM): Physics, Chemistry, Mathematics. b) For Trained Graduate Teacher-Science (CBZ): Chemistry, Botany, Zoology, Biology, Biotechnology, Life Science. Provided "Candidates possessing a Pass/ Hons./Elective/Optional/Compulsory subject in Life science are provisionally allowed to participate in the recruitment process. However, their candidature shall be subject to the result of the SLP Dairy No.27263/2023, 32864/2023, 36595/2023, 31501/2024 and other similar cases pending before the Hon'ble Court."
4	TELUGU TEACHER	Bachelor Degree in Arts having Telugu as a subject with minimum 50% marks in aggregate (45% for SC/ST/PWD/SEBC candidates) and Telugu B.Ed./ B.Ed. from any NCTE recognized institution.
5	CLASSICAL	1. Bachelors Degree with Sanskrit as one of the elective/ optional/

	(SANSKRIT) TEACHER	Hons./ pass subject from a recognized university with minimum 50% marks in aggregate (45% for SC/ST/PWD/SEBC Candidates) And Shiksha Shashtri (Sanskrit) a course prescribed by NCTE, from a recognized University/ Institution/ B.Ed from any NCTE recognized institution. Or 2. Shashtri in Sanskrit with minimum 50% of marks in aggregate (45% for SC/ST/PWD/SEBC Candidates) from a recognised University/ Institution with 50% marks in aggregate (45% for SC/ ST/PWD/SEBC Candidates) And Shiksha Shastri (Sanskrit) a course prescribed by NCTE, from a recognised University/ Institution/ B.Ed. from any NCTE recognised Institution.
6	HINDI TEACHER	1. Bachelors Degree with Hindi as one of the Elective/ Optional/ Hons./ Pass subject from a recognized university with minimum 50% marks in aggregate (45% for SC/ST/PWD/SEBC Candidates) and One of the following Training qualifications: - Hindi Shikshan Parangat from Kendriya Hindi Sansthan, Agra. - B.H.Ed, a course prescribed by NCTE, from a recognized University/ Institution. - B.Ed in Hindi, a course prescribed by NCTE, from Dakhin Bharat Hindi Prachar Sabha, Madras. - B.Ed. from NCTE recognised institution. OR 2. Bachelor's Degree from a recognized University with minimum 50% marks in aggregate (45% for SC/ST/PWD /SEBC candidates) with One of the following qualifications: - Rastrabhasa Ratna from Rastrabhasa Prachar Samiti, Wardha. - Shastri (Hindi) from Orissa Rastrabhasa Parishad, Puri. - Snataka (Acquired by June-2005, the date upto which the temporary recognition has been granted) from Hindi Shiksha Samiti, Orissa, Cuttack. and One of the following training qualifications; - Hindi Shikshan Parangat from Kendriya Hindi Sansthan, Agra. - B.H.Ed, a course prescribed by NCTE from a recognised

		University/ Institution. iii. B.Ed in Hindi, a course prescribed by NCTE, from Dakin Bharat Hindi Prachar Sabha, Madras. iv. B.Ed. from NCTE recognised institution.
7	URDU TEACHER	1. Alim/ Fazil with 50% of marks in aggregate (45% for SC/ST/PWD/SEBC Candidates) And B.Ed / Urdu B.Ed from any NCTE-recognized University/ Institution. Or 2. B.A. (Persian) with 50% of marks in aggregate (45% for SC/ST/PWD/ SEBC Candidates) And B.Ed/ Urdu B.Ed from any NCTE recognized University/ Institution.
8	PHYSICAL EDUCATION TEACHER	+2 or its equivalent examination from a recognized institution and C.P.Ed./ D. P.Ed / B.P.Ed./ M.P.Ed from a recognized Board/ University.

N.B.:

1. Candidates must have requisite qualifications for the post on the last date of submission of Online Application Form.
2. Candidates having Special B. Ed are not eligible for any of the above posts.
3. Round off percentage of marks will not be acceptable under any circumstances for consideration for appointment i.e. 49.99% will be treated as less than 50%, likewise 44.99% will be treated as less than 45%.
4. Candidates possessing Academic / Training qualifications from Boards/ Universities / Institution outside Odisha shall have to produce the following documents failing which she/he shall not be considered eligible for selection.
 - i. proof of equivalency from any recognised Universities of the State of Odisha,
 - ii. affiliation of their institution to a recognised University and
 - iii. recognition of such training course and institute by NCTE.
5. A candidate furnishing certificates, mark-sheets with grades and grade-point shall have to also furnish numerical equivalence of grades/ grade points from the examining bodies failing which he/ she shall not be treated as eligible for selection.
6. Candidate must have passed Odisha Secondary School Teacher Eligibility Test (OSSTET) in concerned category and concerned subject conducted by the Board of Secondary Education, Odisha.

Provided that, candidates who will appear/have appeared the OSSTET- 2024 can also apply and appear the competitive examination to be conducted for this recruitment, provided they produce the OSSTET Pass Certificate at the time of verification of documents, failing which he/ she shall not be considered as eligible for selection.

(c) Age:

- i. To be eligible for the post a candidate must have attained the age of 21 (Twenty-one) years and must not be above the age of 38 (Thirty-eight) years as on **1st January 2024**. The upper age limit is relaxable by 5 years for candidates belonging to SEBC, SC, ST & all Women candidates, 10 years for candidates belonging to PwD category & the total period of service rendered in Defence Service in case of Ex-servicemen. PwD candidates in the ST & SC category shall be entitled to cumulative age relaxation of ten years over & above the normal relaxation specified for the category. However, a candidate who comes under more than one category shall be eligible for only one benefit of age relaxation as per rule which will be more beneficial to her/him. To be eligible, candidates not enjoying any relaxation of upper age limit, must not have been born earlier than **2nd January 1986** and not later than **1st January 2003**.
- ii. **Note for Ex-Servicemen-** Once an Ex-Serviceman has joined the Govt. Service in civil side after availing the benefit as an Ex-Serviceman for his re-employment, his ex-serviceman status for the purpose of re-employment in Govt. Jobs shall cease to exist. He can avail age relaxation only. However as per clause-4 of the O.M. No. 36034/2014-Estt. (Res) dt.14 August 2014 of Ministry of Personnel, Public Grievances and Pensions, Department of Personnel & Training, Government of India, if an Ex-Serviceman applies for various posts before joining any civil employment, he/she can avail of the benefit of reservation as ex-serviceman for any subsequent employment, provided the applicant as soon as joins any civil employment, should give self-declaration/ undertaking to the concerned employer about the date-wise details of application for various posts for which he/ she had applied for before joining. The applicant should furnish the copy of above declaration duly endorsed by the employer on the date of Document Verification for consideration of the claim under Ex-Serviceman category.
(NOTE: Border Security Force, Indian Coast Guard, CRPF and other Para Military Forces are not within the definition of Ex-Servicemen.)
- iii. The persons in Defence Forces who are to retire within six months from the last date of Online Application form are eligible to **apply on obtaining NOC from the Appropriate Authority indicating there in the date of enrolment and expected date of discharge**

and year of service rendered in Defence Forces. They should note that they must submit the discharge certificate on the date of certificate verification for considering their claims of age relaxation under Ex-Serviceman category (**NOTE: Border Security Force, Indian Coast Guard, CRPF and other Para Military Forces are not within the definition of Ex-Servicemen.**)

- (d) Date of Birth entered in the High School Certificate Examination by the Board of Secondary Education, Odisha or equivalent Certificate issued by the recognised Board/Council/ by an Indian University as equivalent there to shall be acceptable by the Commission.
- (e) A candidate who claims change in her/his name after having passed the High School Certificate Examination is required to furnish copy of publication of the changed name in local leading daily newspaper as well as copy of notification in the Odisha Gazette in support of her/his change of name.

[For important instructions about filling up online application and “How to Apply” refer to Annexure “A’ enclosed].

4. Plan and Pattern of Examination:

Stages of Exam	Type of Exam	No of Paper	Marks allotted	Remarks
Stage-I	Preliminary Examination (Objective Type, MCQ)	One paper	100	It is qualifying in nature. Prelim exam will only be conducted for such posts where number of valid applications are more than five times the advertised vacancies. Based on marks obtained in Preliminary examination approximately 05 times the number of candidates will be shortlisted (post wise & category wise) for appearing in Main written exam.
Stage-II	Main Written Examination (Objective Type, MCQ)	One paper (Different for different Posts)	150	Candidates will be called for certificate verification on the basis of marks secured in Main examination. If vacancies in post/ category are 50 or less than 50 two times, if vacancies in post/ category are 51 or more, 1.5 times the number of vacancies will be called for certificate verification.
Stage-III	Certificate verification		--	The eligibility of candidates shortlisted shall be determined through verification of all relevant documents in support of age, qualification and other eligibility conditions as laid down in the advertisement. The candidate, who fails to attend the document verification, will not be considered

				for the post.
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* There will be negative marking @0.25 per 1 marks for each wrong response.

(a) Indicative Syllabus for Preliminary Examination.

- **General Studies-** (Indian Constitution, Indian Economy, Indian and World Geography, History of India, History of Odisha, General issues of Environment or Climate change – 10th Standard) -30 Questions / 30 Marks.
- **Arithmetic** -10th Standard-20 Questions/20 Marks.
- **Logical Reasoning and Analytical Ability, General Mental Ability-** 20 Questions / 20 Marks.
- **Computer/ Internet Awareness** - 20 Questions / 20 Marks.
- **Current events of National / International Importance** - 10 Marks.

N.B.: 10th standard covers the syllabus upto 10th standard not syllabus of only 10th class.

(b) Details of Main written examination is shown below:

Name of the Post	Type of Questions	Number of Questions	Full Marks	Level	Subjects	Languages (Medium)
TGT Arts	MCQ	150	150	Graduation	a) History + Political Science b) Geography+ Economics c) English d) Pedagogy & Evaluation.	English / Odia (English subject-English only)
					e) Odia	Odia only
TGT Science PCM	MCQ	150	150	Graduation	a) Physics b) Chemistry c) Mathematics d) Pedagogy & Evaluation.	English / Odia
TGT Science CBZ	MCQ	150	150	Graduation	a) Chemistry b) Botany c) Zoology d) Pedagogy & Evaluation.	English / Odia
Hindi Teacher	MCQ	150	150	Graduation	a) Hindi	Hindi (Devnagari)
					b) Pedagogy & Evaluation.	English & Hindi (Roman script & Devnagari script)
Sanskrit Teacher	MCQ	150	150	Graduation	a) Sanskrit	Sanskrit (Devnagari)
					b) Pedagogy & Evaluation.	English & Sanskrit (Roman script & Devnagari script)
Telugu	MCQ	150	150	Graduation	a) Telugu	Telugu

Teacher					b) Pedagogy & Evaluation.	
Urdu Teacher	MCQ	150	150	Graduation	a) Urdu b) Pedagogy, & Evaluation.	Urdu
Physical Education Teacher	MCQ	150	150	Intermediate (+2)	a) Physical Education b) Pedagogy, & Evaluation.	English / Odia

Note:-The detail syllabus of Main written examination is enclosed at Annexure-C.

In pursuance of GA & PG Department Notification No-29246, Dated-18th October 2022, the Preliminary Examination/ Main written examination except language paper, shall be conducted both in Odia and English. The candidate shall exercise his/her option in the online application form.

- (c) All may note that the option once given in the online application form cannot be changed. Options are available in the online application form. The question paper will be distributed to candidates as per their option of language.
- (d) The candidates who fail to appear in any stage of the recruitment process will not be considered for final selection and their names will be deleted from the merit list.
- (e) Any complaint on the conduct of examination must be sent to the commission by email "support.osscc@gov.in" within 05(five) days of completion of examination.

5) Place and Date of written examination:

- a) The Date of Preliminary Examination/ Main written Examination will be conveyed to the candidates in due course of time through Notice, which will be published in two leading Local dailies as well as website of the Commission and in Admission Letter.
- b) The **preliminary examination** is likely to take place in the **first quarter** (January-March) of the year **2025**.
- c) The exact Date, Time and Venue of Main written examination will be conveyed to the candidates in the Admission Letter(s) in due course. The Admission Letters can be downloaded by the eligible candidates by accessing the Commission's website from time to time.

6) Certificate verification and submission of Detailed Application Form (DAF):

Basing on the marks secured in the Main Written Examination, Candidates numbering two times of the vacancies advertised (If vacancies in post/ category are 50 or less than 50) & 1.5

times of the vacancies advertised (if vacancies in post/ category are 51 or more) in order of merit, post wise & category-wise shall be shortlisted for Certificate Verification.

The candidates will be required to produce their Original Certificates & Mark sheets of Academic qualification & Training qualification, caste certificate, NOC of Govt./PSU servant, special category certificate and other documents as intimated in the admission letter for verification along with a set of self-attested photocopy of the same and OSSC copy of the application form duly signed by the applicant. **(Details enclosed in Annexure-B).**

Candidates who fail to appear in the document verification will not be considered for final selection and their name will be deleted from the merit list.

NOTE: In case during the stage of Certificate verification, the Commission observes that the vacancy(ies) for a particular category of post(s) is/are not getting filled completely, an additional number of candidates who have qualified in order of merit shall be called only for one more time, at the discretion of the Commission for filling up the no. of vacancies not getting filled up.

7) Admission Letter:

- a) The Commission shall upload the admission letter in its Website www.osscc.gov.in for the convenience of the candidates. Applicants should click on the button "Candidate's login" and then provide "User Id" and "Password" upon which the status of the application will be displayed on the screen. The eligible applicant may click on "Download Admission Letter" to download the Admission Letter and take print out.
- b) Admission of a candidate for the preliminary examination/ Main written examination & other tests shall be provisional and shall be on the basis of the information furnished by her / him in the online application form.
- c) The admitted candidates will have to produce the printout of the admission letter at the venue/exam centre allotted for appearing in the examination /test.
- d) The admission letter contains issue date, time and venue of the examination and bears the photo and signature of the candidate and facsimile signature of the Secretary of Commission.

8) Merit/Select list:

The Merit list shall be prepared in order of merit post-wise and category wise basing on the marks secured by candidates in the Main Written Examination (out of 150 marks) and found suitable in Certificate Verification. The select list will be published equal to number of vacancies advertised.

Resolution of Tie Cases: If two or more candidates have obtained equal marks in the aggregate, the order of merit shall be determined in accordance with the marks secured by such candidates

in their respective academic career and if the marks thus secured are equal then the merit shall be decided according to their seniority in age. (As per clause-14(iv) of OSSC Rules, 1993)

Note:

- i. Inclusion of the name of a candidate in merit/select list furnished by OSSC shall confer no right on the candidate to appointment, unless the Director Secondary Education, Odisha or the appointing authority are satisfied after such inquiry or re-verification of documents, as may be considered necessary, that a candidate is suitable and eligible in all respects for appointment to the post.

9) Action against candidates found guilty of misconduct/malpractice:

- (a) If a candidate is found to indulge at any stage in any of the malpractices/misconduct (listed below an illustrative, not exhaustive list) before/during/after conduct of examination, his/her candidature for this examination will be cancelled and they will be debarred from the examinations of the Commission for a specified period or permanently. Criminal proceeding may be started in appropriate places.
 - Taking away any Examination related material such as OMR sheets/Question-cum-Answer Booklets, Rough Sheets, Answer Sheet etc. from the examination hall or passing it on to unauthorized persons during the conduct of examination.
 - Leaving the Examination Venue uninformed during the Examination
 - Misbehaving, intimidating or threatening in any manner the examination functionaries' i.e. Supervisor, Invigilator, Security Guard or Commission's representatives etc.
 - Obstruct the conduct of examination/ instigate other candidates not to take the examination.
 - Making statements which are incorrect or false, suppressing material information, submitting fabricated documents, etc.
 - Obtaining support/ influence for his candidature by any irregular or improper means.
 - Possession of Mobile Phone in either 'switched on' or 'switched off' mode.
 - Appearing in the same examination more than once in contravention of the rules.
 - A candidate who is working on examination related matters in the same examination.
 - Damaging examination related infrastructure/ equipment.
 - Appearing in the Exam with forged Admit Card, identity proof, etc.
 - Possession of firearms/ weapons during the examination.
 - Assault, use of force, causing bodily harm in any manner threatening/ intimidating to the examination functionaries i.e. Supervisor, Invigilator, Security Guard or the Commission's representatives etc.

- Using unfair means in the examination hall like copying from unauthorized sources such as written material on any paper or body parts, etc.
 - Possession of Bluetooth Devices, spy cameras, and any other electronic gadgets in the examination hall.
 - Impersonate/ procuring impersonation by any person.
 - Taking snapshots, making videos of question papers or examination material, labs, etc.
 - Sharing examination terminal through remote desktop software's/ Apps/ LAN/ VAN, etc. or attempting the same.
 - Filling up and submitting more than one application form for the same recruitment examination.
 - Attempt to hack or manipulate examination servers, data and examination systems at any point before, during or after the examination.
- (b) The Commission may also report the matter to Police/ Investigating Agencies, as deemed fit and the Commission may also take appropriate action to get the matter examined by the authorities/ forensic experts concerned.

10) Commission's Decision Final: The decision of the Commission in all matters relating to eligibility, acceptance or rejection of the applications, penalty for false information, mode of selection, conduct of examination(s), allotment of examination centers and preparation of merit list & post allocation, debarment for indulging in malpractices will be final and binding on the candidates and no enquiry/ correspondence will be entertained in this regard.

11) Important Instruction/Information to the Candidates: -

- (a) Marks scored by candidates in Computer-based Preliminary Examination/Main written examination, if such examination is conducted in more than one Sitting/Batch, will be normalised by using the formula published by the Commission vide Notice No.2444/OSSC, dt.02.09.2021 and such normalized scores will be used to determine last selection marks.
- (b) There shall be no provision for re-evaluation/ re-checking of scores in the Examination. No correspondence in this regard shall be entertained.
- (c) **Sharing of marks with candidate:**
- i) If the Preliminary Examination/Main written Examination is conducted offline, then marks obtained by an applicant in those examination are proposed to be shared with him/her after final merit list is published.

- ii) If the Preliminary Examination/Main written Examination is conducted in CBRE mode, then the candidate's answer sheet along with marks awarded for each question will be provided to the candidates who appeared the examination through their Candidate login while inviting objection to answer key/final answer key. They have to keep a print copy of the answer sheet for future reference. Answer sheet & marks secured by the candidates in CBRE exam will not be provided again.
- (d) This is a State Cadre post. The candidate, on selection, may be asked to serve anywhere in Odisha.
- (e) If a candidate scoring more than last selection marks at any Tier/stage of the examination is not qualified for the subsequent stage/ final selection due to any reason, he must submit representation to the Commission 15 days of the declaration of the result.
- (f) **Applicants who are Government servants or working under PSUs of the State Government/ Central Government or Servants of Govt. Autonomous Bodies/Govt. Universities should obtain a "No Objection Certificate" from their controlling authority and upload the same with the Online Application Form failing which their candidature for the post will be rejected. At the certificate verification stage, they must produce the original "No Objection Certificate". Those who were not Government Servants/ working in PSUs at time of submission of application but became Government Servants subsequently must submit No Objection Certificate at stage of certificate verification. Those Government Servants/ working in PSUs who are unable to produce No Objection Certificate during Certificate Verification will not be included in the Merit List. Similarly, if any candidate hides his/her Govt. Servant/ PSU employee and found to be Government servant/ PSU employee on the day of Certificate Verification or before, will not be included in the Merit List.**

By order of the Commission


22.10.2024
Secretary

Annexure-A

Important Instructions to Candidates about filling up Online Application:

- Before applying, candidates must go through the instructions given in the notice of examination very carefully.
- Candidates in their own interest should submit online applications much before the closing date and not to wait till the last date to avoid the possibility of disconnection/inability or failure to login to the OSSC website on account of heavy load on the website during the closing days or for any other reason.
- The Commission is not likely to undertake detailed scrutiny of applications for the eligibility and other aspects at the time of written examination and, therefore, candidature will be accepted only provisionally. Candidates must go through the requirements of educational qualification, age, physical and medical standards (if any) etc. and satisfy themselves that they are eligible for the post(s). Copies of supporting documents will be sought at the time of Certificate Verification. When scrutiny is undertaken, if any claim made in the application is not found substantiated, the candidature will be cancelled and the Commission's decision shall be final.
- Candidates seeking reservation benefits available for SC/ ST/ SEBC/ PwD/ ESM/Sports Person must ensure that they are entitled to such reservation as per eligibility prescribed in the Government rules in force. They should also be in possession of the certificates in the prescribed format in support of their claim.
- Candidates with only **benchmark physical disability** mentioned in Clause-2(b) of Advertisement will be considered as Persons with Disabilities (PwD) and entitled to age-relaxation/ reservation for Persons with Disabilities.
- PWD Candidates must submit the Self-attested Xerox copy of their permanent disability certificates issued by competent Authority/UDID having disability not less than 40% for availing Compensatory time at the examination center.
- PwD candidates availing the facility of scribe must opt for scribe in the Online Application Form at the prescribed place. She/ He shall have to take prior permission of the Commission separately for each examination for which a notice will be published on the website of the Commission before conduct of examination.
- She/ He must submit the following documents as mentioned in the Advisory Notice No.3453/OSSC Dt.24.10.2019, available on the website of the Commission, to the Commission within the stipulated duration.
 - vii. Copy of the undertaking Form in Appendix -II duly filled and signed by both the candidate and the scribe.

- viii. Copy of the disability Certificate of the candidate.
 - ix. Certificate in Appendix-I given by Medical Authority for physical limitation in writing in respect of the candidates having disabilities.
 - x. Copy of the admission letter of the candidate.
 - xi. Copy of ID proof of the scribe duly signed by the candidate.
 - xii. Copy of the highest educational qualification certificate of the scribe duly signed by the candidate. Educational qualification of the scribe must be lower than prescribed educational qualification of the recruitment.
- When the application is successfully submitted, it will be accepted 'Provisionally'. Candidates should take printouts of the online Application Form for their own records.
 - **Only one online application is allowed to be submitted by a candidate for any recruitment Examination.** Therefore, the candidates must exercise due diligence at the time of filling their online Application Form. In case, more than one application of a candidate with different registration numbers is detected, all the applications will be rejected by the Commission and his/her candidature for the examination will be cancelled. If a candidate submits multiple applications and appears in the examination (at any stage) more than once, his candidature will be cancelled, and he may be debarred from the examinations of all Commission.
 - **The candidate can exercise option for more than one post**, if he/she is eligible for those posts in all respect i.e. he/she must have requisite educational qualification for those posts as mentioned in clause-3(b) of Advertisement & must have passed OSSTET in concerned subjects as applicable for those posts. If he/she fails to submit requisite documents/ certificates & mark sheets for those posts his/her candidature for the post/posts shall be rejected/ cancelled.
 - The candidates should ensure that they have filled in the correct data in the online application before submission. However, in case any data or information has been wrongly extended, they may correct the same in the Online Application Form (except the data filled in Registration) at any time before closing date of the online application. After the closing date of the online application, no correction /modification/changes in the online application form shall be allowed under any circumstances. Any request reviewed in any form in this regard through e-mail/ by hand shall not be entertained.
 - The candidates must write their name, Date of Birth, father's name and mother's name as given in the Matriculation Certificates otherwise their candidature may be cancelled at the time of Document Verification or as and when it comes into the notice of the commission.

- Female candidates who have changed first/last/surname post marriage must produce Gazette Notification/ Marriage Certificate/ Affidavit to appear for the examination.
- Applications with blurred/ illegible Photograph/ Signature will be rejected.
- Candidates must fill in their correct and active e-mail addresses and mobile number in the online application as correspondence may be made by the Commission through e-mail/ SMS.
- Candidates must carry two passport size recent colour photographs and one original valid Photo ID Proof such as Aadhaar Card/ printout of E-Aadhaar, Driving License, Voter Card, PAN Card, Identity Card issued by University/ College/ Government, Employer ID Card, ESM Discharge Book issued by Ministry of Defence, or any photo bearing ID card issued by Central/ State Government to the Examination Venue, failing which they will not be allowed to appear for the same. If Photo Identity Card does not have the Date of Birth printed in it, then the candidate must carry an additional original certificate in support of his/her Date of Birth. In case of a mismatch in the date of birth mentioned in the Admission Letter and Photo ID/ Certificate brought in support of the date of birth, the candidate will not be allowed to appear in the examination.
- In case of fake/ fabricated application/ registration by misusing any dignitaries name/ photo, such candidate/ cyber cafe will be held responsible for the same and liable for suitable legal action under cyber/ IT act.

How to Apply:

- The applicants should go through this detail advertisement before filling up the online application form.
- The candidate may apply for the post(s) as per her/his eligibility as per terms of the advertisement.
- All eligible candidates must register themselves by clicking on “APPLY ONLINE” button on the home page of the Commission’s website www.osscc.gov.in.
- Those candidates who are applying for the first time have to register for the post by clicking on “NEW USER” button shown on the screen. On submitting the registration form a User Id and Password will be generated.
- On clicking “New User” or “Registered User”, instruction for filling up the Online Registration/ Re-registration and Application Forms shall appear on the computer screen. These instructions should be read carefully before proceeding with filling up the Application Form.

- Step by step procedure for registration/re-registration can be viewed by clicking on "Instruction to fill up Online Application Form".

Pre-requisites for filling up online Application Form:

- Applicants should possess and maintain an e-Mail Id and Mobile Number for accessing the OSSC web portal and to make Online Registration/Re-Registration and Application Form. Candidates should keep that e-mail Id and Mobile Number (used by them during registration) active so as to receive all important communication from the Commission till publication of the final result of this recruitment examination.
- Recent Passport size Colour Photograph of the Applicant, scanned in "jpg/jpeg" format with file size range of 20 kb to 100kb may be kept handy for uploading during Registration.
- Full Specimen Signature & Left /Right Thumb Impression of the Applicant, scanned in "jpg/jpeg" format between ranges of 20 kb to 50kb shall be kept handy for uploading during Registration.
- Scanned document must be in "Pdf" format between ranges of 100kb to 500 kb.
- Applicant may keep their required Certificates, Mark sheets, Aadhar Number & other documents ready while filling up the details of the educational qualification & other fields of Online Application Form.
- SC/ST/SEBC category candidates need to submit detail information of the valid online Caste Certificate issued by competent Authority in the online application form. If the valid online Caste Certificate issued by the competent Authority is not in possession of the applicants at the time of submission of the online application form, she/he must give a self-declaration in the format appended in the online application form.
- Candidate claiming age relaxation under "Ex-Serviceman" category need to upload any one of the Ex-Servicemen Documents i.e. Discharge Certificate/ Identity card/ PPO (wherein the date of entry, date of discharge and period of service rendered in Defence Forces have been reflected). Ex-Servicemen who going to retire within six months from the closing date of online application may apply for the post by obtaining "No Objection Certificate" from the appropriate authority mentioning therein the date of appointment, date of retirement and years of service rendered in Defence Forces. However, such candidates have to submit the discharge certificate on the date of certificate verification for considering their claims under Ex-Serviceman category. The scanned document must be in "Pdf" format between ranges of 100 kb to 500 kb.

- Candidates claiming reservation/ age relaxation under "PwD (Persons with Disabilities)" category need to upload a valid & clearly visible (Permanent disability of 40% or more) online PwD certificate having benchmark disability mentioned at clause-2(b)(iii) of the advertisement, issued by Unique Disability Identification (UDID) Portal. The scanned document must be in "Pdf" format between ranges of 100kb to 500 kb.
- Candidates claiming reservations under Sports Person Category need to upload Sports Identity Card issued by Director of Sports and Youth Service Department. The scanned document must be in "Pdf" format between ranges of 100kb to 500 kb.
- The special category (PwD/Ex-Servicemen/Sports Person) candidates must upload valid & clearly visible certificates supporting their claim failing which their claim will not be considered but they will be considered to compete in their own category (UR/SEBC/SC/ST).
- The candidate should ensure that the scanned Photograph and full Signature, Left/Right Hand Thumb Impression and other relevant documents as uploaded by the candidate are clearly identifiable/ visible. Otherwise, the registration and application shall be liable for rejection. No correspondence on this account shall be entertained.
- Applicants who are Government servants or working under PSUs of the State Government/ Central Government should obtain a "No Objection Certificate" from their controlling authority and upload the same with the Online Application Form failing which their candidature for the post will be rejected. At the certificate verification stage, they must produce the original "No Objection Certificate". Those who were not Government Servants/ working in PSUs at time of submission of application but became Government Servants subsequently during the recruitment process must submit No Objection Certificate at stage of certificate verification. Those Government Servants/ working in PSUs who are unable to produce No Objection Certificate during Certificate Verification will not be included in the Merit List. Similarly, if any candidate hides her/his Govt. Servant/ PSU employee and found to be Government servant/ PSU employee on the day of Certificate Verification or before, will not be included in the Merit List.
- The Candidate shall be allowed for the examination at different stages provisionally basing on the information furnished in the Online Application. As such they must submit correct data /information in the Online Application Form. If at any stage of recruitment or thereafter, it is found that any information furnished by the candidate in her/his online application is false/incorrect or the candidate has suppressed any relevant information or

the candidate otherwise does not satisfy the eligibility criteria prescribed for the post, her/his candidature for the post will be cancelled forthwith.

Annexure-B

Documents to be submitted at time of Certificate Verification:

- a. Downloaded copy of Admission letter for Document Verification.
- b. Downloaded copy of Bio-Data-cum-Attestation form duly filled in.
- c. Copy of the Online Application form legibly signed by the candidate at appropriate place.
- d. **HSC certificate** & mark sheet or equivalent certificate in support of Date of Birth issued by the concerned Board/Council. (In case a candidate passed any other examination equivalent to HSC, the candidate should submit equivalence of such examination issued by BSE Odisha).
- e. **+2 or equivalent** examination pass Certificate & Marksheet issued by the concerned Board/Council.
- f. **Bachelor's Degree** Certificate & Marksheet and other academic Certificate & Marksheet (as applicable for different posts mentioned in clause-3(b) of the advertisement) issued by the concerned University.
- g. **Certificate & Marksheet of B.Ed** or other training pass Certificate & Marksheet (as prescribed for different posts mentioned in clause-3(b) of the advertisement) issued by NCTE recognised college/ Institution.
- h. Candidates possessing academic/ training qualifications from Boards/ Universities/ Institution outside Odisha shall have to produce following documents (as mentioned in N.B. of clause-3(b) of the advertisement).
 - (i) Proof of equivalency from any recognised Universities of the State of Odisha,
 - (ii) Affiliation of the institution to a recognised University
 - (iii) Recognition of such training course and Institute by NCTE.
 - (iv) Candidates are advised to produce online Teacher Recognition Management System (**OTRMS**) certificate issued by NCTE for verification of Recognition status for NCTE recognised Institutions.
- i. OSSTET Pass Certificate and Marksheet issued by Board of Secondary Education, Odisha for respective post (s) and category (UR/SEBC/SC/ST) for which shortlisted.
- j. Candidates who have not been awarded percentage of marks, but only awarded CGPA/Grade point in Degree level/Training (B.Ed), etc., they must submit the conversion certificate from the concerned University indicating the actual equivalent percentage of mark and conversion formula as per clause-3(b) of the advertisement.

- k. **Caste certificate** issued by the competent authority **through Online** for the purpose of employment/service. (In case of ST, SC& SEBC Candidates only) SEBC category candidates must submit photocopy of valid SEBC certificate issued by the competent authority which must be within one year prior to the closing date of online application.
 - l. Certificate either of passing HSC examination with Odia as a compulsory subject, or in lieu thereof a certificate of passing Odia of HSC standard issued by competent authority.
 - m. Photocopy of permanent disability certificate not less than 40% issued online by UDID (by Appropriate Medical Authority) in case of PwD candidates.
 - n. Sports Identity Card issued by Director of Sports & Youth Service Department, Govt. of Odisha in case of sports person candidates.
 - o. Discharge certificate, identity card and document indicating the period of service rendered in defence forces in case of Ex-Servicemen candidates claiming age relaxation.
 - p. NOC in case of candidates working in Government Service/ working under PSUs of State Government as well as Central Government or Servants of Govt. Autonomous Bodies/Govt. Universities.
 - q. An ID Proof such as Voter's Identity Card/Driving License/Aadhar Card etc. issued by Government Authority.
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ANNEXURE-C

**SYLLABUS FOR MAIN WRITTEN
EXAMINATION FOR RECRUITMENT OF
LEAVE TRAINING RESERVE (LTR)
TEACHERS IN GOVT. SECONDARY
SCHOOLS.**

Syllabus for Pedagogy & Evaluation
(For all posts except PET)
(Total Marks 20)

A. Learning Process / Pedagogy

1. Understanding the Learning Process
 - Learning as a process and an outcome
 - Approaches – Humanistic (Karl Rogers)
 - Constructivist (Piaget and Vygotsky)
 - Basic conditions of learning: Readiness, Maturation, Motivation, Task and Methods
2. Organizing Learning
 - Teacher-Centric, Learner –Centric, Learning-Centric
 - Characteristics and Process
3. Addressing Classroom Diversity
 - Using varieties of TLMs and AV Aids
 - Using context of the learner
 - Using variety of activities while group learning, small group learning and self learning
 - Learner in the context of Inclusive Education

B. ASSESING THE LEARNER / PERFORMANCE (EVALUATION)

1. Assessment and Evaluation
 - Assessment and evaluation in constructive perspective
 - Concept, Continuous and Comprehensive Evaluation , Formative, Summative and Diagnostic Assessment
2. Assessment and Learning
 - Assessment of Learning, Assessment for learning, Assessment as Learning
 - Subject-based learning in a constructivist perspective
 - Assessment tools and techniques –Projects, Assignments, Observation, Teacher made Tests
 - Self-assessment, Peer-assessment
3. Test Construction
 - Steps and Principles of Test Construction
 - Development of blue print
 - Preparation of test items
 - Standardized and Teacher made Test

(For the post of PET)
(Total Marks 20)

Pedagogy, Planning & Evaluation

1. Pedagogy

- Teaching Techniques (Lecture method, Demonstration Method, Discussion method and Project method etc)
- Important devices and methods of teaching
- Teaching Procedure-Whole method, Part method, Whole and Part method
- Difference between teaching methods and Teaching Aids

2. Programme Planning & Evaluation

- Programme planning, principles of programme planning in Physical Education
- Function of planning organisation of school sports, coordination and conducting of Physical Education activities
- Evaluation of School Physical Education activities and School Health Education Programme

TGT Science: (PCM)

PHYSICS (40 Marks)

Unit-1 Motion

Newton's laws of motion, Kinematic Equations of motions with acceleration, Graphical representation of Kinematics Equations of motion, Relative velocity and relative acceleration, work energy and power, conservation of energy, collision problem and conservation of linear momentum, forces of nature, friction force.

Circular motion, Rotational Kinematics, Conservation of angular momentum, Moment of Inertia.

Motion under Gravity, project motion, Simple harmonic motion, and Kinematics of simple harmonic motion, simple pendulum.

Unit-2 Gravitation

Kepler's law of planetary motion, Newton's law of gravitation, Acceleration due to gravity, Gravitational field and potential, Escape velocity and satellite motion, Geo stationary Satellites.

Unit-3 Properties of Matter

Inter- atomic and intermolecular force, Elasticity, Stress, Strain and Hook's law , Elastic module

Kinetic theory of gases, concept of heat, pressure and temperature, specific heat, law of equipartition of energy, Universal Gas laws, measurement of Pressure

Surface tension, surface energy, angle of contact, excess pressure, capillarity, viscosity, Poiseuille's law, Stokes's Law, Bernoulli's Equation of fluid motion.
Hydrostatics, Buoyancy, Archimedes Principle, Laws of flotation.

Unit-4 Sound

Waves, Progressive and stationary waves, mechanical waves, equation of a progressive wave, transverse vibration of a string, speed of sound waves, Newton's formula, Super-position of sound waves, Beats, Echo, Doppler's effect, Musical sound and its characteristics.

Unit-5 Optics

Laws of reflection and refraction in transparent medium, total internal reflection, refraction through prisms, Dispersion, Reflection and image formation plan and spherical mirrors, equation for object and image distances for spherical mirrors, image formation in convex and concave lenses, lens equation for convex and concave lenses, power of single and combination of two lenses. Image formation in the eye and defects of vision, microscope and astronomical telescope.

Wave optics, Huygens's principle, Coherent sources and interference, Young's double slit, Bi-prism, Newton's ring experiments, Diffraction of light through single slit and plane transmission grating.

Unit-6 Electrostatics

Coulomb's law and unit of charge, force on charge due to discrete and continuous charge distributions, lines of force and electric field, field due to a point charge and a dipole, electrostatic potential, potential due to a point charge and an electric dipole, electric potential energy of a group of point charges, electric flux, Gauss law and applications, Capacitor, capacitance of parallel plate and spherical capacitors, combinations of capacitors in series and parallel.

Unit-7 Current Electricity

Ohm's law, current and voltage measurements, resistance and Resistivity, combination of resistances in series and parallel, electromotive force, grouping of resistors and cells. Kirchhoff's laws and their applications.

Electric energy and power, heating effect of electric current, Faraday's law of electrolysis.

Magnetic field and magnetic induction, Biot-Savart law, magnetic field due to a straight conductor, a circular coil and a solenoid carrying current. Ampere's circuital law, Lorentz force on a charge particle in uniform electric and magnetic fields. Force between two parallel conductors carrying current.

Unit-8 Electromagnetic Induction

Faraday's law of electromagnetic induction, Lenz's law, eddy current, self and mutual induction, emf induced in a rotating coil. Alternating current, average and RMS values of alternating currents, simple AC circuits (RC, RL and RLC), concept of admittance and impedance. Transformers and simple AC devices (motor, dynamo).

Section-II

CHEMISTRY (40 Marks)

Unit-1 Basic Concepts

Atomic, molecular and equivalent masses, mole concept, types of chemical reactions, calculations based on stoichiometry. Equivalent mass of acid, salt, oxidant and reductant.

Unit-2 States of Matter

Gas laws- Boyle's law, Charles' law, combined gas equation, ideal gas equation, Graham's law of diffusion/ effusion, Dalton's law of partial pressure.

Characteristics of Liquids: Vapour pressure, viscosity and surface tension. Colligative properties of solutions (solute and solvent forming binary solution).

Unit-3 Structure of Atom

Bohr's model and its limitations, concept of shells and sub-shells, dual nature of matter and light. De Broglie's relationship, Heisenberg uncertainty principles, concepts of orbital's, quantum

numbers, shape of s,p and d orbital, rules of filling electrons in orbitals- Aufbau principle and Hund's rule, electronic configuration of atoms, stability of half filled and completely filled orbitals.

Unit-4 Classification and elements and periodicity in properties

Modern periodic law and the present form of periodic table, periodic trends in properties of elements- atomic radii, ionic radii, ionization enthalpy, electron gain enthalpy, electro negativity, valency.

Unit-5 Chemical bonding and molecular Structure

Ionic bond, covalent bond, polar character of covalent bond, covalent character of ionic bond, concept of hybridization, VSEPR Theory and shapes of some simple molecules, hydrogen bond and metallic bond.

Unit-6 Chemical reactions

Types of chemical reactions, redox reaction, Oxidation number calculations, balancing of redox equations by oxidation number and ion electron methods, neutralization reactions and volumetric analysis.

Unit-7 Chemical Equilibria and Ionic Equilibria

Equilibrium in physical and chemical processes, law of mass action, equilibrium constants (K_c , K_p , K_x) relation among them, the reaction quotient and its relation with equilibrium. Le-Chateliers principle and its applications.

Theories of acids and bases, ionization of weak acids and bases, ionic product of water pH and other logarithmic terms, common- ion effect, solubility product and its application in salt analysis.

Unit- 8. General Principles of extraction of metals

Occurrence of metals, ores and minerals, concentration, calcinations, roasting, smelting, reduction methods (carbon reduction, aluminothermic process, electrolytic and self- reductions) and metal extraction, flux and slag refining of metal. Reactions involved in the Blast furnace for extraction of iron.

Unit-9 Some basic principles of organic chemistry

- a) Classification and IUPAC nomenclature of organic compounds
- b) Electronic displacement in covalent bond: inductive effect, electronic effect, resonance and hyper conjugation
- c) Homolytic and heterolytic fission of a covalent bond: free radicals, carb-cations, carbanions, electrophiles and nucleophiles, types of organic reactions.

Unit-10 Hydrocarbons

Classification of Hydrocarbons.

- a. Aliphatic Hydrocarbons: general methods of preparation, properties and uses of alkanes, alkenes and alkynes.
- b. Aromatic Hydrocarbons: benzene, resonance aromaticity, chemical properties, directive influence of functional group in mono-substituted benzene.

MATHEMATICS (50 Marks)

- 1. Set Theory and its Application**
 - Union, intersection, difference, complement, power set, number of elements in union and intersection of finite sets.
- 2. Relations and Functions**
 - Reflexive, Symmetric, transitive and equivalence relations, injective, surjective and bijective functions, inverse of a function.
- 3. Number System**
 - Natural numbers, integers, rational numbers, irrational number, real number, absolute values of numbers, triangle inequality.
- 4. Quadratic & Linear Equations**
 - Fundamental theorem of Algebra, roots, discriminates, nature of the roots, relation between the roots and coefficients.
- 5. Calculus of One Variable**
 - Limit, continuity, derivative, tangent, normal, increasing and decreasing functions.
- 6. Sequence and Series**
 - Arithmetic and Geometric progressions, monotonic sequence, exponential series, logarithmic series, Taylor's series, Maclaurin's series.
- 7. Coordinate geometry**
 - Distance formula, section formula, area of a triangle, locus and its equation, straight line, circle, conic section.
- 8. Analytical Solid Geometry**
 - Plane, straight line, Sphere
- 9. Probability**
 - Trial, Sample point, Sample Space, Event, Addition Theorem, Binomial Distribution.
- 10. Statistics**
 - Mean, Mode, Median, Mean Deviation, Standard Deviation, Variance
- 11. Trigonometry**
 - Angles associated with 90, 180, 270, 360 compounded angle formula, sub-multiple angle formula, Trigonometry Equations, Inverse trigonometric functions, Height and Distance.
- 12. Mensuration**
 - Circumference of a circle, length of the arc of a circle, area of a circle, sector and segment, area of a circle annulus, area of a sectional region, area of segment, surface area and volume of a prism, right circular cylinder, cone and sphere.

TGT Science: (CBZ)

Chemistry (40 Marks)

(Same as in TGT PCM Syllabus)

BOTANY (45 Marks)

1. Plant Diversity and Conservation

- Nomenclature and classification of plant kingdom, plant divisions- Thallophyta, Bryophyte, Pteridophyta, Gymnosperms and Angiosperms, their habitat and complexity in their structural organization. Endangered plant species and their conservation measure.

2. Tissue System

- Meristematic and permanent tissues: their types, organization and functions.
- Tissue System: Epidermal, ground and vascular tissue system, internal structure of dicot and monocot stems and roots secondary growth in plants.

3. Photosynthesis

- Structure and photosynthetic pigments, Light reaction: light absorption, electron transport and photophosphorylation, Dark reaction- CO_2 fixation by C_3 , C_4 and CAM plants, photorespiration.

4. Growth in Plants

- Photoperiodism, Phototropism, Auxins, Gibberellins, Cytokinins, Ethylene and Abscissic acid, their role in plant growth regulation.

5. Reproduction in plants

- Vegetative reproduction: Fission, budding and cutting(grafting) and propagation in angiosperms.
- Asexual Reproduction: Sporulation, Conidia formation and other special structure formation.
- Sexual Reproduction: Isogamy, Anisogamy and Oogamy, double fertilization and triple fusion in angiosperms.
- Parthenogenesis: Tissue culture and micropropagation

6. Mendelism

- Mendelian factors, Monohybrid cross and principles of dominance and segregation.
- Dihybridcross: Laws of independent assortment.
- Deviations from Mendelian principles

7. Plant Diseases and Control Measures

- Causal Organisms, symptoms, life cycle and control measures of following diseases: Late blight of potato, powdery mildew, Rust and Smut of Wheat, Leaf Sport and blast disease of rice.

ZOOLOGY (45 Marks)

1. Taxonomy

- Five kingdom classification, Characteristics and Examples of each animal phylum (in case of phylum Chordate up to Classes)

2. Cytology

- Cell structure and cell division (mitosis and meiosis), DNA and RNA

3. Genetics

- Linkage, Crossing over, Mutation, Chromosomal aberration and chromosomal mechanism of sex determination

4. Evolution

- Darwinism, Modern Synthetic theory of evolution (variation, selection and isolation)

5. Ecology

- Eco-system, Food Chain and Food Web, Energy Flow, Ecological Pyramids, Renewable and Non-renewable energy resources, Biodiversity (meaning and conservation), Causes, Effects and Control of Air pollution.

6. Nutrition

- Types of food and types of nutrition,

7. Respiration

- Types of respiration (aerobic and anaerobic) Glycolysis and Krebs Cycle

8. Circulation

- Blood (Composition and function) in man, structure and working of human heart

9. Excretion

- Human Kidney (structural details), mechanism of urine formation

10. Control and Coordination

- Structure of neuron, synaptic transmission, structure of human brain and function of its different parts, names of endocrine glands and secreted hormones with their specific functions

11. Reproduction and Development

- Structure of Gonads (ovary and testes) and Gametes in man, Fertilization. Types of cleavage.

TGT ARTS

HISTROY + POLITICAL SCEINCE (20 Marks)

HISTORY

1. Great Rulers of Ancient India
 - Ashoka – Conquests, administration and missionary activities
 - Kharavela – Achievements as mentioned in Hatigumpha inscription
 - Samudragupta – Conquests
 - Harshavardhana – Conquests, administration and religious activities
2. Development of Art and Architecture during Maurya Age, Gupta Age and Kushana Age
3. Development of Literature and Science in Ancient India
4. Administration during Delhi Sultanate with special reference to Balban, Alauddin Khilji and Feroze Shah Tughlaq.
5. Mughal architecture and painting during the reign of Akbar, Jahangir and Shahjahan
6. Rise of British power in India from 1757 to 1856
 - Robert Clive and foundation of British Power
 - Administrative and judicial reforms of Warren Hastings
 - Revenue reforms of Lord Cornwallis
 - Subsidiary alliance
 - Reforms of Lord William Bentinck
 - Doctrine of Lapse
7. Growth of India Nationalism, 1857-1905
 - Revolt of 1857
 - Development of press and literature
 - Education
 - Formation of Political associations
8. Indian National Movement, 1905-1947
 - Swadeshi movement
 - Non-cooperation movement
 - Civil Disobedience movement
 - Quit India movement
 - Indian National Army
 - Partition and Independence
9. First World War and Russian Revolution
 - Causes and consequences of First World War
 - Causes Progress and Effects of Russian Revolution
10. Second World War- Causes and Consequences

POLITICAL SCIENCE

1. Salient features of Indian Constitution
2. Preamble, Fundamental Rights, Directive Principles of State Policy, Fundamental Duties
3. Union Government – President, Prime Minister, Council of Ministers, Parliament and Supreme Court
4. State Government – Governor, Chief Minister, Council of Ministers, Legislative Assembly and High Court.
5. Local Governance – Urban and Rural
6. Electoral Process and Election Commission

7. India's Foreign Policy and its relation with neighbours
8. United Nations – General Assembly, Security Council Human Rights
9. Socialism, Liberalism, Democracy, Authoritarianism, Welfare State and Globalization
10. Kautilya, Raja Ram Mohan Roy, Bal Gangadhar Tilak, Swami Vivekananda, Mahatma Gandhi, Nehru, B.R. Ambedkar

GEOGRAPHY + ECONOMICS (20 Marks)

GEOGRAPHY

1. Physical Geography of India
 - Physiography
 - Drainage
 - Climate
2. Resources with Special Reference to India
 - Types and Classification, Land Resources; Biotic Resources
 - Mineral, Energy, Water Resources
 - Agriculture and Industrial Resources
3. Physical Geography
 - First, Second and third order and forms; Development of land forms – work of rivers, wind and glaciers. Interior of the earth, rocks and their types
 - Structure and composition of the atmosphere, insolation and temperature; Pressure and Winds; Humidity and Rainfall
 - General relief of ocean floor: Salinity and temperature of the ocean water. Oceanic circulation – waves, tides currents
4. Globe and Maps
 - Basic features; types of maps; map scale; contours of relief features
 - Concept of latitude and longitude; International dateline Time Zones; Local and Standard Time.

ECONOMICS

1. Indian Economy
 - Features and broad demographic characteristics; Need and Policies for facing the challenges of over population
2. Current Challenges of Indian Economy
 - Poverty – Measures of poverty; causes, consequences, policy and programmes adopted for poverty eradication; Remedies.
 - Unemployment – Types and measures of unemployment; Causes, consequences and programmes adopted for reducing unemployment.
 - Inflation – Meaning and types; Demand pull and cost push inflation; Causes and consequences and measures taken to control inflation.
3. Economic Development
 - Meaning and Indicators – National Income, Physical Quality of Life Index(PQLI), Human development Index (HDI); concept of and need for sustainable development.

4. Money and Banking

- Meaning, types and functions of money; Banking: Commercial Banks – Meaning, functions; Credit creation by commercial banks; Central Banking – Meaning and functions; Monetary Policy.

ENGLISH (45 Marks)

1. Comprehension:

- a) An unseen passage in about 150 words. Questions testing factual, understanding, inferential and interpretive aspects including vocabulary and usage.
- b) A poem (neither very old nor very absurd but a simple one). Questions testing factual, understanding, referential, appreciative aspects including vocabulary in context)

2. Grammar and usage

Testing of grammar and usage in the following areas:

- a. Prepositions
- b. Direct and indirect speech
- c. Passives
- d. Tense
- e. Identification of error in a sentence
- f. Phrasal verbs
- g. Clause patterns
- h. Punctuations
- i. Types of sentences
- j. Spelling
- k. Agreement of verbs with subjects

3. Speaking (Commonly mis-pronounced words, common errors)

4. **Teaching of English**

- a) Importance of Teaching English/learning English in the present context
- b) Objectives of Teaching English/learning English with reference to Language Skills & Sub-skills
- c) Strategies of Teaching/learning English with special reference to NCF 2005
- d) Stages of planning for a Text (pre-reading, while reading and post-reading)
- e) Assessment of language skills, :Tools and Techniques with reference to Continuous and Comprehensive Assessment

ODIA (45 Marks)

ନିମ୍ନ ପ୍ରଦତ୍ତ ବିଷୟମାନଙ୍କରୁ ପ୍ରଶ୍ନ ପ୍ରସ୍ତୁତ କରାଯିବ ।

୧. ଅବବୋଧ ପରୀକ୍ଷଣ : ପ୍ରାୟ ୧୫୦ ଶବ୍ଦ ବିଶିଷ୍ଟ ଏକ ଗଦ୍ୟ ଅନୁଚ୍ଛେଦ ପ୍ରଦାନ ନରାଯାଇ ତା'ର ଆଧାରରେ ୫ଟି ପ୍ରଶ୍ନକରାଯିବ । ପ୍ରତିପ୍ରଶ୍ନର ୪(ଋତ୍ତି)ଟି ଲେଖାଏଁ ସମ୍ଭାବ୍ୟ ଉତ୍ତର ପ୍ରଦତ୍ତ ହୋଇଥିବ । ପରୀକ୍ଷାାର୍ଥୀ ତା'ଉପରେ ସବୁଠାରୁ ଉତ୍ତରଟିକୁ ବାଛିବାକୁ ହେବ । ପ୍ରତି ଉପଯୁକ୍ତ ଉତ୍ତର ପାଇଁ ୧ ନମର ରହିବ ।
୨. ଲେଖା ଓ ଲେଖକ : ସାରଳା ଦାସ, ଜଗନ୍ନାଥ ଦାସ, ଉପେନ୍ଦ୍ର ଭଞ୍ଜ, ଚାମରତାର, ଫକୀରମୋହନ, ଗୋପାଳଚନ୍ଦ୍ର ପ୍ରହରାଜ, ଗୋପାଳୀୟ ମହାନ୍ତି - ଏହି ଲେଖକଙ୍କର ଗୋଟିଏ କୃତିର ନାମ ଉଲ୍ଲେଖ କରାଯାଇ ଲେଖକଙ୍କ ନାମ ପ୍ରଶ୍ନ କରାଯିବ କିମ୍ବା ଲେଖକଙ୍କ ନାମ ଦିଆଯାଇ ଭିନ୍ନ ଭିନ୍ନ ଋତ୍ତିର ରଚନା ମଧ୍ୟରୁ ଠିକ୍ ଉତ୍ତରଟି ବାଛିବାକୁ କୁହାଯିବ ।
୩. ପଦନିର୍ଣ୍ଣୟ : ଗୋଟିଏ ନିର୍ଦ୍ଦିଷ୍ଟ ବାକ୍ୟ ଦିଆଯାଇ ତହିଁରୁ ଗୋଟିଏ ପଦକୁ ଚୟନକରି ନାମ ଦେଇ ପଦଟିକୁ ଚିହ୍ନଟକରି ପ୍ରଶ୍ନ କରାଯିବ । ଏଥିପାଇଁ ୪ଟି ସମ୍ଭାବ୍ୟ ଉତ୍ତର ଦିଆଯିବ । ପରୀକ୍ଷାାର୍ଥୀ ଠିକ୍ ଉତ୍ତରଟିକୁ ବାଛିବେ । ଏଥିପାଇଁ ବିଶେଷ୍ୟ / ସର୍ବନାମ / ବିଶେଷଣ / ଅବ୍ୟୟ କ୍ରିୟାପଦ ଇତ୍ୟାଦି ୫ ପ୍ରକାର ମଧ୍ୟରୁ ୩(ତିନି) ପ୍ରକାରର ୩ଟିକୁ ଚିହ୍ନଟକରିବାକୁ ହେବ ।
ଏଥିପାଇଁ ଭିନ୍ନ ଭିନ୍ନ ୩(ତିନି)ଟି ବାକ୍ୟ ମାଧ୍ୟମରେ ୩ଟି ପ୍ରଶ୍ନ କରାଯିବ ।
୪. କୃତ୍ୟ: ଦୁଇଟି କୃତ୍ୟ ନିଷ୍ପନ୍ନ ପଦର ଗଠନ କିମ୍ବା ପ୍ରତ୍ୟୟ ଚିହ୍ନଟକରି ପ୍ରଶ୍ନ କରାଯିବ । ପ୍ରତ୍ୟେକରୁ ୪ଟି ପ୍ରତ୍ୟୟ ନାମ ଦିଆଯାଇ ଠିକ୍ ଉତ୍ତରଟି ବାଛିବାକୁ ନିର୍ଦ୍ଦେଶ ରହିବ ।
୫. ତତ୍ତ୍ୱ: ଦୁଇଟି ତତ୍ତ୍ୱ ନିଷ୍ପନ୍ନ ପଦ ଦିଆଯାଇ ପ୍ରତ୍ୟେକ ନିର୍ଣ୍ଣୟ କିମ୍ବା ୪ଟି ଭିନ୍ନଭିନ୍ନ ଶବ୍ଦ ମଧ୍ୟରୁ ତତ୍ତ୍ୱ ନିଷ୍ପନ୍ନ ପଦ ଠିକ୍ ଶବ୍ଦଟିଏ ରଖି ତାକୁ ଚିହ୍ନଟକରିବାକୁ କୁହାଯିବ ।

୬. ବାକ୍ୟ ପରିଚିତି: ସରଳ, ଯୌଗିକ, ଜଟିଳ ବାକ୍ୟ କିମ୍ବା ଦୁଇ ପ୍ରକାର ବାକ୍ୟର ମିଶ୍ରରୂପ ଭିତରୁ ଯେକୌଣସି ବାକ୍ୟଟିଏ ପ୍ରଶ୍ନରେ ଦେଇ ତା'ର ପ୍ରକାର ଚିହ୍ନଟକାରୁ କୁହାଯିବ । ସମାବେଶୀ ସ୍ୱରୂପ ୪ ପ୍ରକାର ଉତ୍ତର ଦିଆଯିବ, ତା'ଗିତରୁ ପରୀକ୍ଷାର୍ଥୀ ଠିକ୍ ଉତ୍ତରଟିକୁ ବାଛିବେ ।
୭. ସାଧାରଣ ଅଶୁଦ୍ଧି : ଶବ୍ଦ ଓ ବାକ୍ୟ ପ୍ରତ୍ୟେକରୁ ୨ଟି ଲେଖାଏଁ ପ୍ରଶ୍ନ ଦିଆଯାଇ ସେଥିରୁ ଠିକ୍ ଶବ୍ଦ କିମ୍ବା ବାକ୍ୟ ବାଛିବାକୁ କୁହାଯିବ । ଏଥିରେ ୩ଟି ଅଶୁଦ୍ଧ ଶବ୍ଦ କିମ୍ବା ବାକ୍ୟ ଓ ଗୋଟିଏ ଶୁଦ୍ଧ ଶବ୍ଦ ବା ବାକ୍ୟ ଥିବ, ସେଥିରୁ ଶୁଦ୍ଧଟିକୁ ବାଛିବେ । ଶବ୍ଦ ଓ ବାକ୍ୟ ପାଇଁ ଅଲଗା ପ୍ରଶ୍ନ ପଡ଼ିବ ।
୮. ସନ୍ଧି : ଦୂରସନ୍ଧି, ବ୍ୟଞ୍ଜନ ସନ୍ଧି ଓ ବିସର୍ଗସନ୍ଧି ମଧ୍ୟରୁ ଯେକୌଣସି ଗୋଟିଏ ସନ୍ଧି ନିଷ୍ପନ୍ନ ପଦଦେଇ ତା'ର ଠିକ୍ ବିଚ୍ଛେଦ ବାଛିବାକୁ ୪ (ଚାରି)ଟି ସମାବେଶ ଉତ୍ତର ଦିଆଯିବ । ପରୀକ୍ଷାର୍ଥୀ ଠିକ୍ ବାଛିବେ ।
୯. କାରକ : ବାକ୍ୟଟିଏ ଦେଇ ଗୋଟିଏ ପଦକୁ ଲେଖାକିତ କରି ତାହା କେଉଁ କାରକ ଚିହ୍ନଟକାରୁ ୪ଟି ସମାବେଶ ଉତ୍ତର ମଧ୍ୟରୁ ଠିକ୍ ବାଛିବାକୁ କୁହାଯିବ ।
୧୦. ବିଭକ୍ତି: ବାକ୍ୟଟିଏ ଲେଖା ଦେଇ ଗୋଟିଏ ପଦକୁ ଲେଖାକିତ କରି ତାହା କେଉଁ ବିଭକ୍ତି, ଦିଆଯାଇଥିବା ୪ଟି ସମାବେଶ ଉତ୍ତର ମଧ୍ୟରୁ ବାଛିବାକୁ କୁହାଯିବ । ଏହିପରି ଦୁଇଟି ଜିନ୍ଦୁ ଜିନ୍ଦୁ ପ୍ରଶ୍ନ ପ୍ରଦାନ କରାଯିବ ।
୧୧. ସମାସ: ଚଉପୁରୁଷ, କର୍ମଧାରୟ, ବହୁବ୍ରୀହି, ଦ୍ୱିଗୁ, ଦ୍ୱୟ, ଅଲୁକ, ଅବ୍ୟୟୀକା-୭ଟି ସମାସ ମଧ୍ୟରୁ ଦୁଇଟି ପ୍ରଶ୍ନକରାଯାଇ ସମାସ ଚିହ୍ନଟକାରୁ କିମ୍ବା ବ୍ୟାସବାକ୍ୟ ଦିଆଯାଇ ସମାସ ନିଷ୍ପନ୍ନ ପଦ ନିର୍ଣ୍ଣୟ କରିବାକୁ ଦିଆଯିବ । ପ୍ରତିଟି ପାଇଁ ୪ଟି ସମାବେଶ ଉତ୍ତର ପ୍ରଦାନକରି ଠିକ୍ ଠିକ୍ ବାଛିବାକୁ ହେବ ।
୧୨. ରୂପି : ଗୋଟିଏ ରୂପି ଦିଆଯାଇ ତା'ର ୪ଟି ସମ୍ପୂର୍ଣ୍ଣ ଅର୍ଥ ମଧ୍ୟରୁ ଠିକ୍ ଅର୍ଥଟି ବାଛିବାକୁ କୁହାଯିବ ।
୧୩. ଛନ୍ଦ : ଛନ୍ଦ ପାଇଁ ଗୁଜରୀ, ନଟ ବାଣୀ, ବଜ୍ରଜାୟା, ଡାଣ୍ଡିକୃତ, ଲେଖ-୫ଟି ମଧ୍ୟରୁ ଗୋଟିଏ ଛନ୍ଦର ଉଦାହରଣ ଉଦାହରଣ ଛନ୍ଦ ଚିହ୍ନଟକାରୁ କୁହାଯିବ । ଏଥିପାଇଁ ୪ଟି ସମାବେଶ ଉତ୍ତର ଦିଆଯିବ ।
୧୪. ଅଳଙ୍କାର: ଅନୁପ୍ରାସ, ଉପମା, ରୂପକ, ବ୍ୟତିରେକ, ଉତ୍ପ୍ରେକ୍ଷା, ଅର୍ଥାନ୍ତରାଧ୍ୟାୟ - ୬ଟି ମଧ୍ୟରୁ ଗୋଟିଏର ଉଦ୍ଧୃତି ଦେଇ ଅଳଙ୍କାର ଚିହ୍ନଟକାରୁ କୁହାଯିବ । ଏଥିପାଇଁ ଚାରିଟି ସମାବେଶ ଉତ୍ତର ଦିଆଯିବ ।
୧୫. ଏକ ପଦାବଳୀ : ବ୍ୟାଖ୍ୟା ପ୍ରଦାନ କରାଯାଇ ଏହାକୁ ଏକପଦରେ ପ୍ରକାଶ କରିବାକୁ କୁହାଯିବ ଏବଂ ଏକପଦ ରୂପ ଦିଆଯାଇ ଏହା ଅର୍ଥ ବ୍ୟାଖ୍ୟା ଚିହ୍ନଟକାରୁ ପ୍ରଶ୍ନକରାଯିବ । ଏଥିପାଇଁ ଦୁଇଟି ଜିନ୍ଦୁ ଜିନ୍ଦୁ ପ୍ରଶ୍ନ କରିବା ଓ ପ୍ରତିଟି ପାଇଁ ୪ଟି ଲେଖା ସମାବେଶ ଉତ୍ତର ଦିଆଯିବ; ସେଥିରୁ ଠିକ୍ ଠିକ୍ ବାଛିବାକୁ ହେବ ।
୧୬. ଅବବୋଧ ପରୀକ୍ଷଣ: ଚାରି/ ପାଞ୍ଚ ପଦ ବିଶିଷ୍ଟ ଏକ କ୍ଷୁଦ୍ର କବିତା ଆଧାରରେ ୫ଟି ପ୍ରଶ୍ନ କରାଯାଇ, ପ୍ରତି ପ୍ରଶ୍ନର ୪ଟି ଲେଖାଏଁ ସମାବେଶ ଉତ୍ତର ପ୍ରଦାନ ହେବ ଏବଂ ପ୍ରତି ଉତ୍ତର ପାଇଁ ୧ ନମ୍ବର ରହିବ ।

Telugu Teacher

Telugu (130 Marks)

1. Language – Mother tongue, Aims of teaching through mother tongue, Language teaching skills, Language – Methodology.
 2. Teaching Methods, Teaching Practice; Teaching Aids, Literature works – Teaching Methods.
 3. Education – Technology, Assessment of Learning, Planning and Designing Achievement Tests, Other Tools for Assessment, Utilization of Educational Sources, Evaluation
 4. Unseen poetry passage, unseen prose passage with test items, vocabulary, opposite words, identification of parts of speech; identification of genders
 5. Gramatical Items : Pronunciation – voice – words formation, words, pratyayamulu, Kalalu, Drutaprakrutikalulu, Parusha, Saralalu, Parts of Speech; Sentences, Tense, Genders, Figures of Speech, Punctuation marks, Meanings, Synoniums, Antoniums, Deviations, Clauses, Phrases, Subjective and non-subjective sentences; different types of sentences, active voice – passive voices, direct – indirect speech, formation of sentences, foreign, country and village words; Sandhi, Samas, Idioms, Phrases and other meanings; Chandhassu, Alankara etc.
 6. Contributions of famous literates for development of Telugu language
 - Nannaya – “Mahabharat” Chapter 4 (120 – 165)
 - Karivi / Goparaju – Salivahana Vidyam. Chapter – 1 (115-165)
 - Garimella Satyanarayan – We do not want British ruling
 - Shri Shri – Mahaprastanam
 - Vimala – Vantillu Enta Adbutam
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Hindi Teacher

Hindi (130 Marks)

UNIT-I (हिन्दी गद्य साहित्य)

(i) निबंध - निम्नलिखित पाठ्य विषयों से प्रश्न किए जायेंगे ।

- बालमुकुंद गुप्त - बनाम लार्ड कर्जन
- रामचन्द्र शुक्ल - क्रोध
- हजारी प्रसाद द्विवेदी - अशोक के फूल
- हरिशंकर परसाई - भोलाराम का जीव

(ii) उपन्यास -

- प्रेमचन्द - कर्मभूमि
- भगवती चरण वर्मा - चित्रलेखा
- मन्नू भण्डारी - आपका बंटी

(iii) कहानी -

- प्रेमचन्द - कफन, पूस की रात
- प्रसाद - पुरस्कार, आकाशदीप
- अज्ञेय - तत्सत्
- भगवती चरण वर्मा - प्रायश्चित्त
- कमलेश्वर - गर्मी के दिन
- जैनेन्द्र कुमार - पत्नी

- उषा पिवम्बदा - चापसी
- भीष्म साहनी - चीक की दावत
- (iv) माटक -
 - जय शंकर प्रसाद - चन्द्रगुप्त
 - लक्ष्मीनारायण मिश्र - सिंदूर की होली
 - मोहन राकेश - आषाढ़ का एक दिन

- (v) संस्मरण / स्मृतिचित्र
 - महादेवी वर्मा - गीत
 - रामवृक्ष बेनीपुरी - रज़िया
 - विष्णु प्रभावकर - अंशुवक्र

UNIT- II (पद्य विभाग)

- (i) कबीर दास - दोहे - गुरु गोविन्द दोउ खड़े, पानी केरा बुद बुदा, माटी कहे कुम्भारसे, जलमें कुंभ, कस्तूरी कुंठल बरी, पासी आवन, कल करी सो आज कर, बाबु ऐसा चाहिए... । पद - माया महा ठमिनी ।
- (ii) सूरदास - बाल वर्णन - मैया मैं नहीं माखन, मैया मोहि राज बहुत खिझानी, जसुमति हरि पालनै, मैया कबहुं चढ़ेगी चोटी ।
भ्रमर गीत - अंधो मन मानेकी बात, ऊधो मन वहि बस बीस, निगुन कौन देसफौ, अधा मोहि ब्रज विसरत नहि ।
- (iii) तुलसी दास - केवट प्रसंग, भरत-महिमा
- (iv) बिहारी - मेरी सब बाधा हरी, कनक कनक तैं, बतरस लालच, कहत मटल रोझत.. ।
- (v) मैथिलीशरण गुप्त - यशोधर
- (vi) दिनकर - कुत्क्षेत्र (प्रथम तीन वर्ष)
- (vii) बच्चन - पक्षकी पहचान, जुगनू
- (viii) सुभद्राकुमारी - झाँसी की रानी

(ix) प्रसाद - भारतवर्ष, हिमाद्रि हुंग...

(x) पंत - प्रथम रश्मि, ताज

(xi) निराला - संध्यासुंदरी, सोइती पत्था

(xii) केदारनाथ सिंह - अक्ताल में दूब

(xiii) नगार्जुन - बहुत दिनों के बाद

UNIT- III (प्रत्येक पाठ्य - बिन्दु से दो प्रश्न)

भाषा अध्ववन :

- i) हिन्दी और ओड़िआ ध्वनियों (स्वतंत्रिकी ज्ञान)
- ii) शब्द निर्माण - प्रचलित उपसर्ग और प्रत्यय
- iii) संधि तथा समास
- iv) विलोम और पर्यायवाची शब्द
- v) शब्दों की सही वर्तनी और उच्चारण
- vi) संज्ञा : लिंग, वचन
- vii) कारक विभक्ति और विशेषण के मुख्य प्रकार
- viii) क्लिया : (क) भेद (सकर्मक, अकर्मक, सरल, मिश्र, वौगिक, प्रेरणार्थक)
(ख) काल- तीन कालों का मुख्य भेद
- ix) वाक्य : मुख्य भेद और परिवर्तन
- x) अति प्रचलित मुहावरें और कलावर्तें

UNIT- IV (भाषा प्रयोग)

- i) गद्य पाठ विधि - परिचयात्मक प्रश्न, बाधन, लेखन, बोध प्रश्न, ज्ञान, और चिन्तामूलक प्रश्न ।

- ii) पद्य पाठ विधि - सामान्य परिचयात्मक प्रश्न, व्याख्या की पद्धति, आत्मीकरण, काव्यानन्दका स्वाद ।
- iii) व्याकरण पाठ विधि - आगमन / निगमन प्रणाली
- iv) अनुवाद - ओडिआ से हिन्दी पाँच सरल वाक्य या वाक्यांश
- v) अपठित गद्य/पद्यांश - (छोटे-छोटे दो अंश)

उसमें से बोध / ज्ञान मूलक प्रश्न होंगे

- 0 -

Sanskrit Teacher

Sanskrit (130 Marks)

शिक्षादान पद्धतिः

UNIT- 1 : Learning Sanskrit: संस्कृतशिक्षणम्

- संस्कृतशिक्षणस्य सामीन्यम् उद्देश्यं महत्त्वं च
- माध्यमिकस्तरे संस्कृत शिक्षायाः महत्त्वम्
- संस्कृतशिक्षायाः सुगमं कौशलम्
- श्रवणम् पाठनम्, वाचनम्, पठनकौशलम् लेखनकौशलम्

UNIT- 2 : भाषाप्रशिक्ष

- व्याकरणानुवाद पद्धतिः : (Formal Grammar, Functional Grammar)
 - प्रत्यक्षपद्धतिः : (Preparation, Presentation, Comparison, Assimilation, (Directmethod) Application)
 - परोक्षपद्धतिः : (Indirect Method) - अन्वय पद्धति Teaching Poetry,
 - आरोह पद्धतिः : अस्या पद्धतेः गुणाः दोषाः च
- Indirective Method - From Example to approach the sutra method in grammar.
- अवरोह पद्धतिः : (deductive method) Interpretation of the sutra and justification through the examples.

UNIT- 3 : भाषासाहित्यशिक्षण पद्धतिः :

Method of assessment learning sanskrit language and literature.

गद्य-पद्य प्रशिक्षण परीक्षण योजना

Planning of assessment of teaching prose and poetry.

परीक्षणस्य योजना साफल्यं च परीक्षणस्य अवान्तर साधनानि

श्रवणम्, भाषणम् पठनम्, वाचनम्, लेखनम्

Group-B (CONTENT)

UNIT- 4 : Elements of Sanskrit Language

संस्कृतभाषायाः मौलिकं ज्ञानम्

(अदृष्ट सन्दर्भगिता: प्रश्ना: (Comprehensiment to unseen passage)

One Passage from Prose (within 150 words)

गद्यभागस्य एकः सन्दर्भः (१५० शब्दमध्ये)

पञ्चतन्त्रतः हितोपदेशतः (From Panchatantra and Hitopadesha)

One verse from Purvamegha or Abhijnana sakuntalam

Word meaning, Sandhi, Karaka Vibhukti Samasa, Prakriti Pratyaya

UNIT- 5 : Language Item, भाषागता विषयाः

Parts of Speech - भाषा विभाग

शब्दरूपम्, धातुरूपम्, विशेषणम्, सर्वनाम, संख्यावाचक विशेषणम्

शब्दरूपम् - बालक, फल, लता, मुनि, पति, मति, वारि, नदी, भानु, धेनु, मधु,

वधू, पितृ, मातृ, गो, गुणिन् राजन्, गच्छत्

विशेषण सर्वनाम - सर्व, तद्, यद्, किम्, इदम्, अस्मद्, युष्मद्

संख्यावाचक - एक, द्वित्रि, चतुर, पञ्च, षड्

पूर्णवाचक - प्रथम, द्वितीय इत्यादि

शब्द निर्माणम् - उपसर्गः, कृदन्तः स्त्रीप्रत्ययः

शब्दज्ञानम् - व्यञ्जकगताः पारिभाषिकाः शब्दाः

सन्धिः, णत्वविधिः, धत्वविधिः

शब्दरूपधातुरूपगतजगशुद्धिः :

Unit - 6 : Contributions of famous poet and authors to Sanskrit literature
(Prose, Poetry, Drama and composition.

Bhasa, Kalidas, Bhababiti, Dandin : Banabhatta

Bhartrihari - Jayadev Trivikrambhatta Sriharsa

Physical Education Teacher

PHYSICAL EDUCATION (130 Marks)

1. Principle and History of Physical Education

- Meaning, Objectives, Aims of Physical Education
- Relationship of Physical Education to General Education, Health Education and Recreation.
- Importance of Physical Exercise, Physical Training and Physical Culture.
- Physical Education as a Socializing agencies.
- Leadership and its importance, qualification and qualities of a Physical Education Teacher
- Contribution of Physical Education Teachers to General Education
- Scout and Guides, NCC, JRC, SGFI, NFC and its contributions
- Contribution of Yoga in modern civilization
- Olympics and Asian Games
- Teachers Training and Professional preparation in Physical Education

2. Sports Psychology

- Meaning and importance in Physical Education
- Mental Process Body, Mind, Relationship and Neuro-muscular Coordination
- Transfer of training, Theories of Play, Learning processes and play way in education.
- Individual differences as personality, mental hygiene and child guidance
- Discipline and behaviour: Nature and Development

3. Organization, Administration and Recreation

- Importance, objectives and guiding principles, Construction and care of gymnasium and swimming pools, Preparation of different playground
- Need, purchase and maintenance of sports equipment's and maintenance of different registers and records,
- Preparing time-table and factor affecting time table in physical Education and Sports
- Scheduling school sports, Problem in school sports, Intramural and extramural competitions.
- Preparation of Budget, accounting and auditing
- Importance of Recreation in human life

4. Anatomy Physiology and Health Education

- Joints structure, Types and Movements Of the Joints, Importance of Good Posture and Remedies of Bad Posture
- Effect of regular- activities on muscles, heart and respiratory System
- Fatigue, Its causes and remedies
- Blood pressure, oxygen debt, second wind
- Importance of health education and the role of Physical Education Teachers in School Health Programme
- Medical Examination, effects of narcotics and drugs
- Nutrition and importance of diet for players and athletes
- Different diseases and their symptoms, detection, care and prevention of diseases like Cholera, Diarrhea, Chicken POX, Measles, Tetanus, Diphtheria and Malaria

5. Methods of Physical Education

- Meaning, Scope and Importance of Methods in Physical Education
- Drill and Marching Commands, Teaching aids, various methods of teaching physical activities, Games, Sports and Indigenous activities.
- Various Tournaments and Competitions
- Test, Measurement and Evaluation in Physical education, National Physical Efficiency Test.
- Layout of the track and field events and different playgrounds
- Demonstration and Exhibitions, Awards and incentives.
- Lesson Planning — General and Specific

6. Officiating and Coaching

- The qualities of a good official, relation of officials with management, coaches, players and spectators
- Duties of the officials
- Promoting and maintaining different games, publicity, arrangement of training camps and schedules
- Conditioning of players and teams - General, Fundamental, Workload
- Warming up - Types and Values
- Various training methods - Isometric and Isotonic exercises, Circuit training, Weight Training, Fartlek Training and Interval Training
- Play of various positions in Games
- Officiating of different games and track and field events - its rules, signals and positional play
- Track and Field events, Major games like Kho-Kho, Kabaddi, Volleyball, Football, Basketball, Soft ball, Cricket, Hockey and Badminton

Urdu Techer

Urdu (130 Marks)

- Prose
- Poetry
- Drama, Novel & Short story
- Grammar
- Pedagogy
- Comprehension and contribution of Famous Urdu Writers

Unit-1 (Prose) :

- Hindustani Tahzib Ke Anasir (Syed Ehtesham Hosen)
- Qaumi Yakjehati (Prem Chand)
- Hamari Azadi (Abul Faiz Sahr) – NCERT
- Odisha Men Urdu Zaban Ka Irteqa (BSE, Odisha)

Unit-2 (Poetry) :

- Banjara (Nazir Akberabadi)
- Jalwa-e-Darbar-e-Delhi (Akbar Allahabadi)
- Ek Arzoo (Dr. Mohammed Iqbal)
- Einstein Ki Wafat Per (Dr. Karamat Ali Karamat)
- Makhli Choos (Faizi Sambalpur)
- Ghazaliyat (Meer, Dard, Ghalib, Hasrat)

Unit-3 (Drama, Novel & Short Story) :

- Khana Jangi (Prof. Mohammed Mujeeb)
- Umrao Jan e Ada (Mirza Hadi Ruswa)
- Urdu Ke Tera Afsane (Athar Parwez)
(Kafan, Anandi)

Unit-4 (Grammar) :

- Ism, Fel, Harf
- Zameer
- Sifat
- Jumla Sazi
- Sabeqa-o-Laheqa
- Imla
- Mutashabih Aur Mutazad Alfaz
- Mohaware Aur Zarbulamsal
- Izafat
- Ghalat Jumle Aur Unki ^{Islah} Istemat

Unit-5 (Pedagogy) :

- Urdu Parhne Ke Agraz O Maqasid
- Madri Zaban Ke Taleem Ki Ahmiyat
- Ijmalī Aur Tafsīlī Motallā Per Maharat
- Tadrīs-e-Nasr-O-Nazm
- Qawāid
- Dars-O-Tadrīs Men Zimnī Motallā
- Isharaat-e-Sabaq
- Janch Ke Mukhtalif Tarīqe
- Tahreef Maharat

Unit-6

Question from Unseen Passage and contribution of Famous Urdu Writers :

- Altaf Hosen Halli
- Neyaz Fateh Puri
- Ali Sardar Jafri
- Amir Khusroo
- Majrooh Sultanpuri

یونٹ ۱۔ نثر

- ہندوستانی تہذیب کے عناصر (سید احتشام حسین)
- قومی یکجہتی (پریم چند)
- ہماری آزادی (ابوالفیض سحر)
- اڈیشا میں اردو زبان کا ارتقاء (بورڈ آف سیکنڈری ایجوکیشن)

یونٹ ۲۔ نظم

ڈراما، ناول، مختصر افسانے

- بنجارا (نظیر اکبر آبادی)
- جلوہ دربار دہلی (اکبر الہ آبادی)
- ایک آرزو (ڈاکٹر محمد اقبال)
- آئین سائن کی وفات (ڈاکٹر کرامت علی کراکت)
- مکھی چوس (فیض سہیل پوری)
- غزلیات (میر، درد، غالب، حسرت)
- خانہ جنگی (پرفیسر محمد مجیب)
- امراؤ جان ادا (مرزا احادی رسوا)
- اردو کے تیرہ افسانے (کفن، آئندگی، اطہر پروین)

پنٹ ۴ قواعد

- اسم، فعل، حرف • ضمیر • صفت • جملہ سازی
- سابقہ و لاحقہ • الما • تشابہ اور تضاد الفاظ • غلط جملے اور ان کی اصلاح
- اضافت • محاورے اور ضرب الامثال

پنٹ ۵ پڑا کوئی

- اردو پڑھنے کے اغراض و مقاصد
- مادری زبان کے تعلیم کی اہمیت
- اجماعی اور تفصیلی مطالعہ پر مہارت
- تدریس تشریح و نظم
- قواعد
- درس و تدریس میں ضمنی مطالعہ
- اشارات سبق
- جانچ کے مختلف طریقے
- تحریری مہارت

پنٹ ۶ ناخواندہ مہارت سے سوال اور مشہوراد ہا کی خدمات

- ناخواندہ مہارت سے سوال
- مشہوراد ہا کی خدمت
- الطاف حسین حالی، نیاز فتح پوری، علی سردار جعفری، سید خورشید، محمود حسن دہلوی