



भारत सरकार, रेल मंत्रालय
रेलवे भर्ती बोर्ड
केंद्रीकृत रोजगार सूचना
सीईएन संख्या 04/2024



अनुलग्नक - सी

पारा -मेडिकल श्रेणियों के विभिन्न पदों के लिए पाठ्यक्रम, सीईएन संख्या 04/2024

क्र.सं.	कोटि सं.	पदों का नाम	पाठ्यक्रम
1	19	Audiologist & Speech Therapist	Speech and Language development & disorders, Basic Anatomy & Physiology related to Speech & Hearing, Diagnostic & Rehabilitation Audiology, Psychology related to Speech & Hearing, Basic Acoustic, Pathology of Hearing and Hearing System, Phonetics + Phonology electives, Speech Language diagnostics and therapeutics, Paediatric Audiology, Management of the Hearing Impaired, Voice & Laryngectomy, Hearing Conservation, Aural Rehabilitation & Its Instrumentation.
2	2	Cardiac Technician	General Anatomy & Physiology (Cytology, Histology, Osteology and basics of all organ systems of body), basics of relevant Pathology, Pharmacology & Microbiology, Basic Physics related to cardiology, Detailed Cardiovascular system's Anatomy & Physiology (Heart & Blood vessels), Basics of Vital monitoring, ECG, TMT, Echo- Cardiography, Hand hygiene & prevention of cross infection, Basic Life Support (BLS) & Cardio-pulmonary resuscitation (CPR)
3	3	Clinical Psychologist	(i) PSYCHOSOCIAL PERSPECTIVES OF MENTAL DISORDERS:-Clinical Psychology & Mental Health, Models of Mental Disorders, Family Influences, Social Pathology, Psychopathology of specific conditions, Disability, Rehabilitation(ii)COUNSELING AND THERAPY:- Psychotherapy and Counseling, Interviewing, Behavior Modification and Therapy, Cognitive Therapies, Crisis Intervention, Family Counseling/Therapy, Therapy with children and special conditions(iii)PSYCHIATRY:- Nomenclature, Psychoses, Neurotic, Stress-related and Somatoform disorders, Disorders of personality and behavior, Organic mental disorders, Behavioral, emotional and developmental disorders of childhood and adolescence, Mental health policies and legislation.
4	16	Dietician (Level 7)	Introduction to Human Biology and Body Functions, Nutrients (Role and Significance), Understanding Nutrition (Basic diets for normal conditions/RDA) , Advanced Nutrition, Introduction to Nutraceuticals, Introduction to Special Conditions and Diet Therapy, Introduction to Clinical Nutrition, Food Microbiology, Recommend Approaches to Disease and Nutrition, Nutritional Biochemistry, Research Method Statistics, Medical Nutrition management, Path Physiology and Metabolism in Disease, Public Nutrition and Health, Pediatric and Geriatric Nutrition, Food Allergies and Diet Management
5	1	Nursing Superintendent	Anatomy, Physiology, Nutrition, Biochemistry, Nursing Foundations, Psychology, Microbiology, Sociology, Pharmacology, Pathology, Genetics, Medical-Surgical Nursing , (Adult including Geriatrics)-I, Community Health Nursing, Child Health Nursing, Mental Health Nursing, Midwifery and Obstetrical Nursing, Nursing Research & Statistics, Management of Nursing Services and Education
6	15	Dental Hygienist	Dental Hygiene AND Oral Prophylaxis, Community Health Dentistry, Operative Room Technique and Chir Side Assistance, Dental Ethics and Jurisprudence, Dental Materials, Anatomy (General & Dental), Physiology (General & Oral), Pharmacology (General & Dental), Pathology & Bacteriology (General & Dental), Dental Radiology
7	12	Dialysis Technician	Anatomy, Biochemistry & Pharmacology, Physiology, Introduction to Kidney diseases, Principles and practice of Dialysis
8	6	Health & Malaria Inspector Gr III	Food & Nutrition, Environmental Sanitation and Sanitary Engineering, Communicable and Non-Communicable Diseases (Prevention and Control), Health and Death Statistics
9	14	Laboratory Superintendent	Sociology & Psychology, PHYSIOLOGY, Basic Chemistry and Biochemistry, General Methodology, PHYSICS, Histopathology and cytology techniques, Clinical pathology & basic haematology, PARASITOLOGY & ENTOMOLOGY, Clinical biochemistry, Coagulation & transfusion medicine, Immunohaematology, VIROLOGY, MYCOLOGY, ADVANCED SEROLOGY
10	13	Optometrist	Physical and Geometrical Optics, General Anatomy and General Physiology, Ocular Anatomy and Ocular Physiology, Basic Biochemistry, Nutrition, Principles of Lighting, Hospital Procedures, Optometric Optics, Ocular Diseases, Visual Optics, Pharmacology, Pathology and Microbiology, Optometric Instruments, Clinical Examination of Visual System, Clinical Psychology, Clinics, Binocular vision, Glaucoma, Low Vision Aids, Dispensing Optics, Pediatric Optometry and Geriatric Optometry, Contact Lens , Law & Optometry and Occupational Optometry, Systemic Diseases , Epidemiology and Bio Statistics, Public Health and Community Optometry
11	8	Perfusionist	Basics of Anatomy, Basics of Physiology, Basics of Biochemistry, Basics of Bio-statistics, Basics of Pathology, Basics of Blood Banking, Basics of Microbiology, Basics of Central Sterilization Services, Hospital Awareness, Familiarization of different tables/tubes in surgical department, Surgical Awareness, preparation of patient for surgery, Patient related services, Anatomy, Physiology, Basics of Diagnostic techniques, Angiography, Oxygenators, Theory of Blood Pump, Gross Anatomy and Structural Features of Heart, Oxygenation, Monitoring, Instrumentation and measurements, Patho Physiology and Pharmacology & Perfusion Techniques, Adequacy of Perfusion, Applied Perfusion Technology, Introduction to Perfusion Technology, Perfusion Equipments, Biomedical Electronics, Perfusion problems during radio pulmonary bypass, Cardio Pulmonary By-Pass, Clinical Application of Bypass Techniques, Occupational Aspects of Perfusion, Postoperative Intensive Care unit Management, Instrumentation Study, Instrument Measurement & Critical Care equipment.
12	9	Physiotherapist Grade - II	Psychology & Sociology, Anatomy, Physiology, Applied Physiology, Basic and Applied Physics for Physiotherapy, Basic Nursing & First Aid, Orientation to Physiotherapy, General Medicine/General Surgery/Paediatrics/ Geriatrics, Biomechanics, Applied Anatomy & Kinesiology, Exercise Therapy, Microbiology and Pathology, Electrotherapy (low & medium frequency), Electrotherapy (high freq & Actinotherapy), Community Medicine, Clinical Orthopaedics, Clinical Cardio-Respiratory Diseases, Bio Statistics & Research Methodology, Physical Modalities Maintenance, PT in Orthopaedics, PT in Neurology, Pt in Cardio Respiratory Conditions, Rehabilitation Medicine, Advanced Physiotherapeutics, Physical Education
13	11	Pharmacist (Entry Grade)	Human Anatomy and Physiology, Pharmaceutical Analysis, Pharmaceutics, Pharmaceutical Inorganic Chemistry, Remedial Biology/Remedial Mathematics, Pharmaceutical Organic Chemistry, Biochemistry, Pathophysiology, Computer Applications in Pharmacy, Environmental sciences, Physical Pharmaceutics, Pharmaceutical Microbiology, Pharmaceutical Engineering, Medicinal Chemistry, Pharmacology, Pharmacognosy and Phytochemistry, Industrial Pharmacy, Pharmaceutical Jurisprudence, Herbal Drug Technology, Biopharmaceutics and Pharmacokinetics, Pharmaceutical Biotechnology, Quality Assurance, Instrumental Methods of Analysis, Pharmacy Practice, Novel Drug Delivery System, Biostatistics and Research Methodology, Social and Preventive Pharmacy, Pharma Marketing Management, Pharmaceutical Regulatory Science, Pharmacovigilance, Quality Control and Standardization of Herbals, Computer Aided Drug Design, Cell and Molecular Biology, Cosmetic Science, Experimental Pharmacology, Advanced Instrumentation Techniques, Dietary Supplements and Nutraceuticals
14	10	Radiographer X-Ray Technician	Human Anatomy & Physiology, Radiology Physics, General Physics, Radiation Physics & Physics of Diagnostic Radiology, X-Ray Machines & Accessories, Maintenance, X-ray Film / Image processing Techniques (Dark Room Techniques), Clinical Radiography-Positioning, Medical Ethics and patient care, Principles of Medical Emergencies, Equipments, Techniques of modern Imaging Modalities, Contrast & Special Radiography procedures, Quality Control at Radiology & Radiation Safety
15	20	Speech Therapist	Sound and Hearing, Anatomy and Physiology of ear, Hearing loss, Evaluation of hearing, Early identification and prevention, Speech & Language Pathology, Anatomy and physiology of speech mechanism, Disorders of speech and language, Assessment of speech disorders, Assessment of language disorders, Hearing aids and earmolds, Auditory learning, Speech reading, Education of children with hearing impairment, Rehabilitation, Disability issues, Management of speech disorders, Management of language disorders, Educational issues, General issues in management

16	4	ECG Technician	Anatomy, Physiology, Biochemistry, Pharmacology, Introduction to Cardiovascular Diseases, Basic Cardiovascular Investigations, Advanced Cardiovascular Investigations
17	7	Laboratory Assistant Grade II	Anatomy, Physiology, Biochemistry, Fundamentals of Medical laboratory Technology, Microbiology, Clinical biochemistry, Pathology & Histopathology, Haematology and Blood and bank
18	5	Field Worker	Physiology of Conception, Contraception-various methods, National Immunization Schedule, Nutrition, Antenatal and Postnatal Care, Target groups for Family Planning, Incentives for accepting small family norm-Special, Personal Hygiene, Communicable and Non-Communicable Diseases, HIV/AIDS, Vital Statistics-Birth Rate, Death Rate, etc., Organizational Chart for Family Welfare Branch and the Medical Department, Record Keeping-Maintenance of Various records viz. registers, Health cards, Reports.
19	18	Occupational Therapist	FUNDAMENTALS OF Occupational Therapy: Human Anatomy, Musculoskeletal system, Human Physiology related to CNS / Respiratory System. Cardiovascular System / Neuromuscular function, Physiology of exercise & Acclimatization, Occupational Therapy, Human development and its Activities of daily living Occupational therapy as Diagnostic & prognostic procedure, Steps involved in preparing the client for return to work / Prevocational evaluation/ Evaluation of work capacity, Evaluation of physical capacity/ Evaluation of functional capacity, Different types of tools & equipment & their uses in Occupational Therapy, General principles of splinting, describe material used. Hand function & evaluation methods, Physiology of Exercise & Work in relation to different organ functions, Disability prevention and rehabilitation.
20	17	Cath Laboratory Technician	Cardiac Catheterization, Equipment and Technology, Catheterization Procedures, Patient Preparation and Care, Safety and Infection Control, Clinical Skills and Practice, Professional and Ethical Issues.

सभी पदों के लिए सामान्य:

क्र.सं.	विषय	पाठ्यक्रम
1	सामान्य अंकगणित	Number systems, BODMAS, Decimals, Fractions, LCM and HCF, Ratio and Proportion, Percentages, Mensuration, Time and Work, Time and Distance, Simple and Compound Interest, Profit and Loss, Algebra, Geometry, Trigonometry, Elementary Statistics, Square Root, Age Calculations, Calendar & Clock, Pipes & Cistern
2	सामान्य बुद्धिमत्ता और तर्क	Analogies, Alphabetical and Number Series, Coding and Decoding, Mathematical operations, Relationships, Syllogism, Jumbling, Venn Diagram, Data Interpretation and Sufficiency, Conclusions and Decision Making, Similarities and Differences, Analytical reasoning, Classification, Directions, Statement – Arguments and Assumptions etc.
3	सामान्य जागरूकता	Knowledge of Current affairs, Indian geography, culture and history of India including freedom struggle, Indian Polity and constitution, Indian Economy, Environmental issues concerning India and the World, Sports, General scientific and technological developments etc.
4	सामान्य विज्ञान	Physics, Chemistry and Life Sciences (up to 10th Standard CBSE syllabus).

अनुलग्नक- I

अजा/अजजा के लिए जाति प्रमाणपत्र

1. यह प्रमाणित किया जाता है कि श्री श्रीमती / कुमारी..... सुपुत्र/सुपुत्री गाँव/ शहर /जिला/ मंडल..... राज्य/ संघ गाँव/ राज्य क्षेत्र*..... जाति/ जनजाति से संबंधित हैं, जिसे अनुसूचित जाति / अनुसूचित जनजाति के तहत मान्यता प्राप्त है:-

- * संविधान अनुसूचित जाति आदेश 1950.
- * संविधान अनुसूचित जनजाति आदेश 1950.
- * संविधान (अनुसूचित जाति) (संघ राज्य क्षेत्र) (भाग ग राज्य) आदेश 1951;
- * संविधान (अनुसूचित जनजाति) (संघ राज्य क्षेत्र) (भाग ग राज्य) आदेश 1951;

[अनुसूचित जाति तथा अनुसूचित जनजाति सूची (संशोधित आदेश 1956. मुंबई पुनर्गठन अधिनियम 1960, पंजाब पुनर्गठन अधिनियम 1966, हिमाचल प्रदेश राज्य अधिनियम 1970, पूर्वोत्तर क्षेत्र (पुनर्गठन) अधिनियम 1971 तथा अनुसूचित जाति व अनुसूचित जनजाति आदेश, (संशोधन) अधिनियम 1976 द्वारा यथा संशोधित]

- * संविधान (जम्मू व कश्मीर) अनुसूचित जाति आदेश, 1956
- * संविधान (अंडमान व निकोबार द्वीपसमूह) अनुसूचित जनजाति आदेश, 1959 जो अनुसूचित जाति व अनुसूचित जनजाति आदेश (संशोधन) अधिनियम, 1976 द्वारा यथा संशोधित, संविधान (दादर व नगर हवेली) अनुसूचित जाति आदेश, 1962.
- * संविधान (दादर व नगर हवेली) अनुसूचित जनजाति, आदेश, 1962
- * संविधान (पुदुचेरी) अनुसूचित जाति आदेश, 1964
- * संविधान (उत्तर प्रदेश) अनुसूचित जनजाति आदेश, 1967
- * संविधान (गोवा, दमन व दीव) अनुसूचित जाति आदेश, 1968
- * संविधान (गोवा, दमन व दीव) अनुसूचित जनजाति आदेश, 1968
- * संविधान (नागालैंड) अनुसूचित जनजाति आदेश, 1970.
- * संविधान (सिक्किम) अनुसूचित जाति आदेश, 1978
- * संविधान (सिक्किम) अनुसूचित जनजाति आदेश, 1978
- * संविधान (जम्मू व कश्मीर) अनुसूचित जनजाति आदेश, 1989.
- * संविधान (अजा) आदेश (संशोधन) अधिनियम, 1990
- * संविधान (अजजा) आदेश (संशोधन) अध्यादेश अधिनियम, 1991
- * संविधान (अजजा) आदेश (संशोधन) अध्यादेश अधिनियम, 1996
- * संविधान (अनुसूचित जाति) आदेश (संशोधन) अधिनियम, 2002
- * संविधान (अनुसूचित जाति) आदेश (द्वितीय संशोधन) अधिनियम, 2002.
- * अनुसूचित जाति व अनुसूचित जनजाति आदेश (संशोधन) अधिनियम, 2002.

2. एक राज्य/ संघ राज्य क्षेत्र प्रशासन से प्रवास करने वाले अनुसूचित जाति/अनुसूचित जनजाति व्यक्तियों के मामले में लागू।

यह प्रमाणपत्र श्री/ श्रीमती"..... पिता / माता"..... के श्री श्रीमती / कुमारी निवासी गाँव/शहर...../जिला/ मंडल"..... राज्य / संघ राज्य क्षेत्र

को अनुसूचित जाति / अनुसूचित जनजाति प्रमाणपत्र के आधार पर जारी किया गया है, जो जाति जनजाति से संबंधित हैं, जिसे राज्य/संघ राज्य क्षेत्र में अनुसूचित जाति/अनुसूचित जनजाति*(निर्धारित प्राधिकारी का नाम) द्वारा उनकी संख्यादिनांकद्वारा जारी किया गया।

3. श्री/श्रीमती/कुमारी और/ अथवा उसका परिवार राज्य/संघ राज्य क्षेत्र के जिला/मंडल गाँव/शहर में सामान्यतः निवासी करता है।

स्थान

हस्ताक्षर

दिनांक

पदनाम

(कार्यालय की मुहर सहित)

राज्य/ संघ राज्यक्षेत्र

* जो लागू नहीं है, कृपया उसे काट दें।

* लागू न होने वाले पैराग्राफ को हटा दें।

@कुपया विशिष्ट राष्ट्रपति आदेश का हवाला दें

% लागू न होने वाले पैराग्राफ को हटा दें

टिप्पणी: (क) यहाँ इस्तेमाल किए गए पद "सामान्यतः निवास" का अर्थ लोकप्रतिनिधित्व अधिनियम, 1950 की धारा 20 के अनुसार ही है। जाति / जनजाति प्रमाणपत्र जारी करने वाले प्राधिकृत अधिकारी।

(1) जिला मजिस्ट्रेट / अतिरिक्त जिला मजिस्ट्रेट / उपायुक्त / अतिरिक्त उपायुक्त / प्रथम श्रेणी स्टाइपेंडरी मजिस्ट्रेट / उप प्रभागीय मजिस्ट्रेट / तालुका मजिस्ट्रेट / कार्यकारी मजिस्ट्रेट / अतिरिक्त सहायक आयुक्त। (2) मुख्य प्रेसीडेंसी मजिस्ट्रेट / प्रेसीडेंसी मजिस्ट्रेट / अतिरिक्त मुख्य प्रेसीडेंसी मजिस्ट्रेट। (3) राजस्व अधिकारी जो तहसीलदार के पद से नीचे के न हों। (4) उस क्षेत्र के उपविभागीय अधिकारी, जहाँ उम्मीदवार और या उनका परिवार सामान्य रूप से रहता है। (5) केंद्रीय या राज्य सरकार के राजपत्रित अधिकारी द्वारा जारी प्रमाणपत्र, जिसे संबंधित जिला मजिस्ट्रेट द्वारा प्रतिहस्ताक्षरित किया गया हो। (6) प्रशासक / प्रशासक के सचिव (लक्ष्यदीव , अंडमान और निकोबार द्वीप समूह)।