



अखिल भारतीय आयुर्विज्ञान संस्थान, रायपुर (छत्तीसगढ़)
All India Institute of Medical Sciences Raipur (Chhattisgarh)

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No. NF/DR/2022/313

Dated: 29.07.2022

IMPORTANT NOTICE

COMPUTER BASED TEST (CBT) FOR GROUP 'A' AND 'B' NON-FACULTY POSTS ON DIRECT RECRUITMENT BASIS AT AIIMS RAIPUR

1. Advertisement for recruitment to the following 'Group A' and 'Group B' posts on direct recruitment basis at AIIMS Raipur was published on the website of AIIMS Raipur on 03.06.2022 for which the last date of online application was extended till 12.07.2022:-

Advt. No.	Name of the Post	Gr.	Pay Level	No. of Vacancies
NF/DR/1/22	Clinical Psychologist	A	Level-10	1 (UR)
NF/DR/2/22	Law Officer	A	Level-10	1 (UR)
NF/DR/3/22	Junior Engineer (A/C & R)	B	Level-6	2 (UR)
NF/DR/4/22	Medical Record Officer	B	Level-6	4 (UR-3, OBC-1)
NF/DR/5/22	Radiotherapy Technician Grade II	B	Level-6	1 (UR)

2. In the above-mentioned advertisement, at point-1 in Section III (page 4), the selection process for Group 'A' posts is, inter-alia, mentioned as under:-

'In case large numbers of applications are received, a 'Screening Test' (CBT or offline) may be conducted for shortlisting of candidates for interview. The details of 'screening test', if decided, will be published on the website of AIIMS Raipur.'

3. Considering the number of online applications received for Group 'A' posts, it has been decided to conduct a 'Screening Test' (i.e. CBT) for shortlisting of candidates for interview. The pattern of screening test (CBT) will be as under:-

Total No. of MCQs	Total Marks	Total Duration of CBT	Indicative Scheme of Screening Test (CBT) for Group 'A' posts
100	100	90 minutes	Questions will be based on the relevant discipline and field of the post. Syllabus of CBT is given in Annexure-1.

4. Candidates for Group 'A' posts will be shortlisted for interview in the ratio of 1:10 Candidates scoring equal to and above the cut off marks in the order of merit of CBT (screening test) will be shortlisted and called for document verification (DV) followed by interview, if found eligible in DV. As already mentioned in the advertisement dated 03.06.2022, final selection of candidate for Group 'A' posts will be made on the basis of his/her performance in interview.

5. In regard to Group 'B' posts, there is no change in the selection procedure.

6. The date of CBT will be published on the website of AIIMS Raipur in due course of time. It is reiterated that test centre will be decided on the basis of candidates' count on a particular test centre. The test centre once decided by the Institute shall be final and request for change of test centre will not be entertained.

7. Post-wise syllabi of computer based test (CBT) are given at Annexure-1.

8. Candidates are advertised to regularly visit the website of AIIMS Raipur (www.aiimsraipur.edu.in) for further updates.

**Sd/-
Dy. Director (Admin)
AIIMS Raipur**

Syllabi for CBT for recruitment to Group 'A' and 'B' Non-faculty Posts on Direct Recruitment Basis at AIIMS, Raipur

- I. Syllabus for Part-I of CBT:** Part-I of CBT will be common and applicable only for Group 'B' posts. The questions in this section will be from the following fields:-
- (a) General knowledge and awareness
 - (b) English comprehension
 - (c) General intelligence and reasoning ability.
 - (d) Quantitative aptitude
 - (e) Computer awareness
- II. Syllabi for Screening Test (CBT) for Group 'A' posts and Part-II of Group 'B' posts:** The post-wise syllabi are given below.

1. Name of the Post: **CLINICAL PSYCHOLOGIST**

PROPOSED SYLLABUS

- 1. Clinical Psychology: Assessment and Diagnosis
- 2. Personality Psychology
- 3. Socio-cultural Influences on Behaviour
- 4. Psychopathology I
- 5. Psychopathology II
- 6. Clinical Counselling-Skills and Ethics
- 7. Advanced Physiological Psychology
- 8. Statistics and Data Analysis
- 9. Clinical Neuropsychology
- 10. Psychotherapeutic Intervention Techniques
- 11. Research Methods in Behavioural Science
- 12. Neurocognitive and Neurodevelopment Disorders
- 13. Clinical-Community Psychology
- 14. Medicine and Behaviour Modification
- 15. Psychology of Health and Wellbeing
- 16. Applied Clinical Project/Thesis

2. Name of the Post: **LAW OFFICER**

PROPOSED SYLLABUS

1. Constitutional Law with reference to Preamble, fundamental rights, directive principle of state policy, writ petitions, special leave petition
2. Indian Contract Act, 1996- Part-I
3. Arbitration and conciliation Act, 1996 – Part-I
4. Consumer Protection Act, 2019
5. Important Latin terms and maxims
6. Provisions of companies Act, 2013 with reference to RPT, CSR, Doctrines of Ultra virus/constructive notice/Indoor Management
7. The Right to Information Act, 2005
8. Information Technology Act 2000
9. Intellectual Property Right related Laws such as Trade marks Act, 1999 and Copyright Act, 1957
10. Labour Laws such as contracts labour Regulation and Abolition ACT, 1970, Shops and Establishment Act, The Minimum Wages Act, 1948, and The Payment of Bonus Act, 1965 etc.
11. Rules made under Environment related laws to the extent applicable on RailTel such as e-waste Management Rules, 2016 and Battery Management & Handling Rules 2001, Biomedical Waste Management
12. Drafting of Legal Notice/Affidavit/Civil Petition on some legal issue (case specific)
13. Legal aspects of Service Matters (i.e. related to Caveat, Central Administrative Tribunal (CAT), Framing of Service Rules, Reservation, Disciplinary Proceedings and Suspension, Sexual Harassment of Women at Workplace etc.)
14. Indian Evidence Act, 1892.

3. Name of the Post: **JUNIOR ENGINEER (A/C & R)**

PROPOSED SYLLABUS

Electrical Engineering:

1. Fundamentals of electrical engineering:
DC/ AC series & parallel circuits, network theorems, transients in AC network, star delta transformation, solutions of balance & unbalance three phase circuits.
2. Electrical machines:
Basic Principles for Single/Three phase transformers, efficiency & regulation, parallel operations, auto transformers, single phase/three phase Induction

Motors & characteristics, motor starting methods, Control panels, Generators & AMF panels.

3. Power systems:
Basic power generation concept, transmission, distribution system & performance, cables, Insulation coordination, power factor, power tariffs, fault analysis of symmetrical & unsymmetrical systems, sources of harmonics, power quality problems & mitigations.
4. Electrical measurements:
Measuring instruments, types, analog & digital measurements of voltage, current, power parameters, instrument transformers, functions & uses of multi-meters, megger, earth tester.
5. LT distribution system:
Layout of sub-station, selection for indoor & outdoor equipments, LT panel basic design, RMUs, compact sub-station, sizing, selection & erection of bus bars, MCBs, LT breakers, Isolators, capacitors, lightning arresters, relays, CTs, cables, cable jointing, panel wirings, for different IT systems, earthing types and related Indian standards.
6. Pumps & pumping system:
Pumps types, performance characteristics & applications, efficient pumping system operation & maintenance, control valves & flow control strategies, energy conservation opportunities, pumping system for water/sewage/effluent, sizing of pumps, fans & compressors.
7. Lighting system:
Light source, choke of lighting, luminance requirement, energy conservation avenues, light emitting diodes, metal halides, fluorescent tube lights, compact fluorescent lights. Street lighting, lighting system design for different installations, Knowledge of lifts/escalators, DGs, UPS, batteries, different technologies, specifications, sizing calculations, maintenance, testing & commissioning, industrial, residential & commercial installation wirings, safety measures according to relevant norms/codes.
8. Switchgears & Protection:
Circuit breakers, types, applications & testing of breakers, protective relays, Protection of transformers & generators, static relays, fuses etc.
9. Energy Scenario:
Indian energy scenario. Conventional & non-conventional energy sources. Energy conservation act 2001 & its features, Electricity Act 2003, safety regulation 2010, Schemes of Bureau of Energy efficiency, Indian Electricity Rules 1956,

Mechanical Engineering:

1. Internal combustion engine:
Basic engine nomenclature, engine classification, working of engine, two stroke/four stroke, spark ignition/compression ignition engine, combustion of CI engine, ignition system, performance of SI & CI engine, cooling & lubrication system, fuel used, measurement of engine power, specific fuel consumption, thermal efficiency.

2. Refrigeration & Air conditioning:
Principles of refrigeration, system types, common refrigerants & properties, compressor types & application, selection of suitable refrigeration system, energy efficiency in refrigeration plant, energy saving opportunities.

4. Name of the Post: **MEDICAL RECORD OFFICER**

PROPOSED SYLLABUS

1. Medical Coding / International Classification of Diseases (ICD)

2. Medical Terminology:

- Objective and basics
- Elements of Medical Terms: Roots, Prefixes, Suffixes, Colors, Numerals, Symbols, Abbreviation
- Terms pertaining to Body as a whole.
- Terms relate to Investigations, and operation, treatment of conditions, disorders-Skin and Breast (integumentary system), Musculoskeletal, Neurological and Psychiatric, Cardio-vascular, Blood and blood forming organs, Respiratory, Digestive, Uro-genital, Gynecological, Maternal, Antenatal and Neonatal conditions, Endocrine and Metabolic, Sense organs of: Vision, Hearing Systemic: Infectious diseases, Immunological diseases, Diseases of the Connective Tissues,

3. Medical Record Science

- Introduction to Medical Record Science, Development, Analysis and Uses of Medical Record.
- Development Medical Record Forms, basic and special.
- Order of Arrangements:
- Ward, Medical Record Department, Source Oriented Medical Record, Problem oriented
- Medical Record, Integrated Medical Record.
- Analysis of Medical Record:
- Quantitative, Qualitative.
- Uses of Medical Records:
- As a personal document, As impersonal document.
- Values of the Medical Record

4. Legal Aspects of Medical Records

5. Biostatistics:

- Introduction to Statistics
- Methods of collection of data
- Measures of central tendency (Mean, Mode and Median)
- Measures of dispersion (Standard deviation, Range, variance, average deviation)
- Graphical presentation of data.

- Probability- concept and definition.
- Uses of statistics.
 - Sources of hospital statistics (In- Patient census, Out - Patient Deptt, and Special Clinics).
 - Definitions (live, birth, fetal death, immaturity, cause of death, underlying cause of death inpatient bed etc)
 - Analysis of hospital services and discharges.
 - Indices (Bed occupancy, average length of stay, bed turn - over internal, death rate birth rate etc.)
 - Vital statistics.

6. **Hospital and Patient-care Appraisal**

- Objectives of Hospital, Parameters of Good Medical Care/Patterns of Patient Care, Functions of Hospital
- History of Medical Audit, Tools and Techniques, Various Phases of Medical Audit

7. **Hospitals Organization and its analysis, Departmental Administration**

- Chart of Organization, Board and Committees, Duties and responsibilities thereof, Delegation, Decentralization

8. **Basic Anatomy**

- Definition of Anatomy & Physiology, Types of Anatomy (including systemic), Definition of topographic term/term used to describe the body, Descriptions of various regions of the body.

9. **Basic Physiology**

- Introductory Lectures or specialization of tissues, Homeostasis and its importance in mammals, Blood and lymphatic system Cardiovascular system, Excretory system, Skin and temperature regulation, Respiratory System, Digestive system and metabolism Endocrinology, Reproductive System, Digestive System and Metabolism Endocrinology, Reproductive System, Nervous System, Special Senses, Muscles

10. **Basic Pathology and Microbiology**

- Definitions and Classification of diseases: Inflammatory diseases- viral and fungal, Inflammatory diseases- Parasitic, Degenerative diseases, Fatty degeneration, Amyloid etc., Tumors- Definition, etiology&classification, Disturbances in blood flow, Pigment disorders, Hereditary diseases, C.V.S. Blood vessels, V.S. Heart, Respiratory System, G.I. tract, Liver Lymphatic System, Genitourinary System, Skeletal System, Blood, Central Nervous System, Endocrine System.
- Clinical Pathology: Normal Composition of blood, disease of RBCs, WBCs, Platelets, Coagulation factors and disorders, Blood groups and cross matching, Blood transfusion, Urine Composition: variation in common disease, CSP and body fluids, Gastris and Duodenal contents, Fasces, Parasites, Introduction and historical background, Classification special, Characteristics of organisms bacteria's, Asepis, Disinfection Antiseptics, Allergy study of pathogenic organisms, Non-pathology organisms, Virus and fungus, Parasitic diseases- their stance in India with lab Diagnosis.

5. Name of the Post: **RADIOTHERAPY TECHNICIAN GRADE II**

PROPOSED SYLLABUS

1. Anatomy
2. Physiology
3. Pathology
4. Generation and Properties of X-Ray
5. General Radiography
6. General Radiography 2
7. Radiation Hazards and Protection
8. Communication Skills and Personality Development
9. Ultrasound
10. CT-Scan 1
11. CT-Scan 2
12. Environmental Science
13. MRI-1
14. MRI-2
15. Organizational Behaviour
16. Doppler and Echography
17. Nuclear Medicine and PET Scan
18. Interventional in Diagnostic Radiology
19. Human Resource
20. Anaesthesia in Diagnostic Radiology
