EXAM SYLLABUS

AIIMS CRE Radiographer Syllabus 2026 Darkroom Portion PDF

1 subjects · 20 topics · 90 min · 400 marks

AIIMS CRE Radiographer Darkroom Syllabus 2026: Comprehensive guide on film processing, darkroom design, quality control, and image characteristics. Prioritize key topics for optimal preparation.

WHAT TO STUDY FIRST

To excel in the AIIMS CRE Radiographer exam, prioritize the darkroom portion as it forms a fundamental base for conventional radiography. Start by understanding the principles of film processing, darkroom components, and their impact on image quality. Since domain-specific subjects comprise 80 questions, mastering these topics ensures a strong foundation and helps in addressing related concepts effectively.

EXAM PATTERN

90 min · 100 questions · 400 marks · MCQ / Objective

AIIMS Competitive Recruitment Examination (CRE) for Radiographer

Marking: +4 marks for each correct answer, -0.25 marks for each incorrect answer. Minimum qualifying marks: 40% for UR/EWS, 30% for SC/ST, 35% for OBC.

Negative: Yes, 1/4 mark is deducted for each wrong answer.

General Knowledge, Aptitude, and Computer Knowledge

20 Q · 80 marks · 18 min

MCQ

Post-Specific Domain Subject (Radiography)

80 Q · 320 marks · 72 min

MCQ

· Computer-Based Test (CBT)
· Bilingual exam (English/Hindi)
· Multiple Choice Questions (MCQs)
· Sectional time limit of 18 minutes per section

SUBJECT-WISE SYLLABUS

01 Radiographic Darkroom Technology and Film Processing

20 topics · Part of 80 domain-specific questions (approx. 10-15 questions are likely from th

RECOMMENDED BOOKS

— Textbook of Radiographic Positioning and Related Anatomy by Kenneth L. Bontrager & John Lampignano

— Merrill's Atlas of Radiographic Positioning and Procedures

— B.Sc. Radiography Course Material (AIIMS/Government Institutions)

1. X-Ray films and film processing
2. Dark room definition, purpose, and layout
3. Dark room design and accessories

4. Site, layout, and safe light compatibility (filters, lighting conditions)
5. Loading and unloading of cassettes and their care/maintenance
6. Film storage, handling
7. Radiographic film types and characteristics
8. Image characteristics (radiographic image contrast, density, resolution, sharpness, magnification and distortion of image, noise and blur)
9. Factors affecting image quality (exposure parameters, focal spot size, screen/film, patient motion, processing quality)
10. Film processing: Manual vs. Automatic process (difference, steps)
11. Developer and Fixer: Composition and function
12. Effects of kV and mA on variation of emitted radiation intensity
13. Determination of relative speeds, film contrast, film screen contact
14. Radiographic illuminators and viewing conditions, visual acuity and resolution
15. Quality assurance of the related equipment (darkroom, processor) and its benefits w.r.t visual assessment
16. Carry out quality control for automatic film processing, evaluate and act on results
17. Silver recovery methods from fixer (electrolysis, metallic replacement)
18. Common processing artifacts, faults, and remedies
19. Specific applications: Mammography film processing
20. Specific applications: Dental Radiography film types and processing

1 subject(s), 20 topics listed above. Verify critical details with the official exam notification before applying.