

- 1) Almost all gamma radiography is performed with
  - a) Natural isotopes
  - b) Iridium-192 or cobalt-60
  - c) Radium
  - d) Thulium-170
- 2) The most common way to cooling the anode of a high power X Ray tube is
  - a) Cooling by radiator, in which a solid tungsten anode attains such high temp that it radiates an appreciable amount of heat
  - b) Cooling by means of circulating cooled air
  - c) Cooling by circulation of water or oil in anode
  - d) Cooling by means of external finned radiators
- 3) A general rule governing the application of the geometric principle of shadow formulation states that
  - a) The X rays should proceed from as large a focal spot as other consideration will allow
  - b) The distance between the radiation source and the material examined should be small as practical
  - c) The film should be as far as possible from the object being radio graphed
  - d) The central ray should be as nearly perpendicular to the film as possible, to preserve spatial relationship
- 4) Cobalt-59 becomes cobalt-60 when it is placed in a nuclear reactor where it captures
  - a) An electron
  - b) A neutron
  - c) A proton
  - d) Contamination
- 5) Source size, specimen thickness, and source to specimen distance are the three factors that determine the
  - a) Density of the radiography
  - b) Exposure of the radiography
  - c) Film size
  - d) Unsharpness recorded on the radiography
- 6) When radio graphing to the 2-2T quality level, an ASTM penetrometer for 2.5 inch steel has a thickness
  - a) One-half inch
  - b) 2.5 mils
  - c) 5 mils
  - d) 50 mils
- 7) Good cobalt -60 radiographs is made on a 3 inch steel casting using an exposure time of 10 minutes source to film distance of 36 inches. It is necessary to change the source to film distance to 24 inch exposure time would produce a similar radiograph if all other conditions remains the same?
  - a) 1.6 minutes
  - b) 4.4 minutes
  - c) 6.4 minutes
  - d) 8.8 minutes
- 8) When other operating conditions are held constant, a change in tube current cause a change in radiation intensity emitted from an X-ray tube, the intensity being approximately proportional to tube current. What is the primary factor that prevents this from being exactly proportional?
  - a) The voltage and voltage waveform of an X-ray machine transformer varies with load
  - b) Wavelength changes are not exactly proportional
  - c) Current cannot be changed at liner rate
  - d) Scatter radiation does not vary at a proportional rate
- 9) The X ray absorption of a specimen depends on
  - a) The thickness and density of the material
  - b) The atomic number of the material
  - c) Both a and b above
  - d) Neither a nor b
- 10) In comparison with lower voltage radiographs, high energy radiographs show
  - a) Greater contrast
  - b) Greater latitude
  - c) Greater amounts of scatter radiation relative to primary beam intensity
  - d) None of the above
- 11) The most important factor of determining the amount of X ray absorption of a specimen is the
  - a) Thickness of the specimen
  - b) Density of the specimen
  - c) Atomic number of the material
  - d) Young's modulus of the material

# Industrial Radiography Level Ii Test Questions

**R Sanford**



## Industrial Radiography Level II Test Questions:

Industrial Radiography and Non-destructive Testing, 1997      Materials Evaluation, 1997      **Energy Research Abstracts**, 1992-02      *Code of Federal Regulations*, 1999 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries      **Lloyd's Register Staff Association Transactions 1934-1935** Lloyd's Register Foundation, 1934-01-01 The Lloyd's Register Technical Association LRTA was established in 1920 with the primary objective of sharing technical expertise and knowledge within Lloyd's Register Publications have consistently been released on a yearly basis with a brief interruption between 1938 and 1946 These publications serve as a key reference point for best practices and were initially reserved for internal use to maximise LR's competitive advantage Today the LRTA takes a fresh approach focusing on collaboration by combining professional expertise from across LRF Group to ensure a frequent output of fresh perspectives and relevant content The LRTA has evolved into a Group wide initiative that identifies captures and shares knowledge spanning various business streams and functions To support this modern approach the LRTA has adopted a new structure featuring representatives and senior governance across the business streams and the LR Foundation The Lloyd's Register Technical Association Papers should be seen as historical documents representing earlier viewpoints and are not reflective of current thinking and perspectives by the current LR Technical Association The Lloyd's Register Staff Association LRSA changed its name to the Lloyd's Register Technical Association LRTA in 1973      The Code of Federal Regulations of the United States of America, 1999 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government      **Atomic Energy Commission reports v.5** United States Atomic Energy Commission, 1974      **Rules and Regulations** U.S. Nuclear Regulatory Commission, 1987      *Investigation of the Soundness of Wrought Zirconium* Verne Pulsifer, 1956      **Low-level Radiation** United States. Department of Energy. Technical Information Center, 1978      **Dual Axis Radiographic Hydrodynamic Test (DARHT) Facility, Los Alamos National Laboratory (LANL), Los Alamos County, Sante Fe County**, 1995      **Industrial Radiography**, 1942      **Atomic Energy Commission Reports** U.S. Atomic Energy Commission, 1972-07      **Board of Contract Appeals Decisions** United States. Armed Services Board of Contract Appeals, 1972 The full texts of Armed Services and other Boards of Contract Appeals decisions on contracts appeals      **Industrial Student Guide and Laboratory Exercises** United States. Education Office, 1968      British Journal of Non-destructive Testing, 1991      **Proceedings** Robert Winston Revie, 1984      *Illinois Register*, 2008      **Nuclear Science Abstracts**, 1975 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1-33 initially created by DOE's predecessor the U.S. Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U.S. Energy Research and Development Administration and its contractors plus other

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