

*Red tech official for radiographer*

***15 MCQs:*** PACS and RIS Systems

**1. PACS is primarily used for:**

A. Image compression

B. Image acquisition

C. Image storage and communication

D. Contrast injection

Correct answer: : C. Image storage and communication

PACS stores, retrieves, and distributes medical images electronically.

## 2. What is the main function of a Radiology Information System (RIS)?

- A. Acquiring radiographic images
- B. Managing patient and exam information
- C. Controlling MRI hardware
- D. Data encryption

Correct answer: : B. Managing patient and exam information  
RIS handles scheduling, reporting, and managing patient radiology data.

### 3. DICOM stands for:

- A. Digital Imaging and Communications in Medicine
- B. Digital Image Compression of Medicine
- C. Department of Imaging and Communication Module
- D. Dynamic Imaging and Clinical Organization Method

Correct answer: A. Digital Imaging and Communications in Medicine

DICOM is the standard format for handling, storing, and transmitting medical images.

#### 4. HL7 is used to:

- A. Transfer MRI scans
- B. Transfer clinical and administrative data
- C. Display ultrasound images
- D. Format radiology films

Correct answer: B. Transfer clinical and administrative data

HL7 is a standard for data exchange between healthcare information systems.



**5. Which component of PACS is responsible for long-term image storage?**

- A. Modality
- B. Archive server
- C. Workstation
- D. HL7 interface

**Correct answer: B. Archive server**

The archive server stores images and reports for long-term access.

## 6. A major advantage of PACS is:

- A. Slower processing time
- B. Limited access to data
- C. Improved image availability and sharing
- D. Only works with CT scans

Correct answer: C. Improved image availability and sharing

PACS enables instant access to images and reports from any connected workstation.

## 7. What role does the PACS workstation play?

- A. Archive raw image data
- B. Acquire images from the patient
- C. Display and interpret medical images
- D. Encrypt patient records

Correct answer: C. Display and interpret medical images

Workstations are used by radiologists for viewing, analyzing, and reporting images.



**8. In PACS, which of the following allows interoperability with other hospital systems?**

- A. File Transfer Protocol (FTP)
- B. DICOM and HL7
- C. JPEG and PNG
- D. DNS and DHCP

Correct answer: B. DICOM and HL7

DICOM and HL7 standards ensure smooth communication between systems.

## 9. What does "Modality Worklist" help with in PACS-RIS integration?

- A. Enhancing contrast resolution
- B. Reducing patient dose
- C. Automatically providing patient data to imaging devices
- D. Displaying only ultrasound images

Correct answer: C. Automatically providing patient data to imaging devices

Modality worklist allows automatic transfer of patient data from RIS to modalities like CT or MRI.

**10. RIS can directly generate which of the following?**

- A. MRI scan
- B. PACS storage paths
- C. Radiology reports
- D. DICOM headers

Correct answer: C. Radiology reports

RIS allows radiologists to generate and manage structured reports.

**11. Which system typically manages patient appointments and billing in Radiology?**

A. PACS

B. RIS

C. HIS

D. Modality console

Correct answer: B. RIS

RIS manages scheduling, billing, and workflow for radiology departments.



**12. Which of the following is a non-image data system?**

- A. PACS
- B. CT scanner
- C. RIS
- D. CR reader

Correct answer: C. RIS

RIS deals with patient records and scheduling, not image acquisition.

**13. A key reason for integrating RIS with PACS is to:**

A. Increase image resolution

B. Automate billing

C. Eliminate redundancy in patient information

D. Replace radiologists

**Correct answer:** C. Eliminate redundancy in patient information

Integration reduces data duplication and improves workflow.

**14. Which format do PACS images typically use for compatibility?**

- A. PNG
- B. BMP
- C. DICOM
- D. TIFF

Correct answer: C. DICOM

PACS systems use DICOM to ensure standardized medical imaging formats.

**15. The HIS, RIS, and PACS integration is essential for:**

- A. Managing parking at the hospital
- B. Streamlining clinical workflows
- C. Increasing X-ray dose
- D. Printing 3D films

Correct answer: B. Streamlining clinical workflows

The integration enables smooth data flow from registration to diagnosis and reporting.