

Pre-Test

Yudthaphon Vichianin

Q1

Indicate the "correct" statements about the IP address? *

1 point

- A) Addresses assigned to network devices in a network.
- B) IP version 4 uses 32 bits.
- C) IP version 6 users 128 bits.
- D) Class C IP addresses usually apply to home use.
- E) All correct.

Q2

Indicate the incorrect statements about the private IP address? *

1 point

- A) 192.168.2.1 is class C IP address.
- B) 172.16.1.1 is class B IP address.
- C) 10.0.0.1 is class A IP address.
- D) 8.8.8.8 is private IP address.
- E) All choices.

Q3

Indicate the incorrect statements about the DICOM service class role in PACS? * 1 point

- A) Service class provider is SCP.
- B) Service class user is SCU.
- C) Service class is a role that can be changed depending on specification of the modality.
- D) One modality can be SCU and SCP at exactly the same time.
- E) All choices.

Q4

What is the technique that use for computer (server) clustering in PACS? * 1 point

- A) High Availability (HA) cluster.
- B) Load balancing cluster.
- C) High performance cluster.
- D) Redundant Array of Independent Disk.
- E) Storage Area Network.

Q5

On a medium size hospital with 250 beds, what kind of a storage system and RAID configuration should be best suitable for (limited resources)? * 1 point

- A) A server with NAS + RAID Level 0
- B) A server with NAS + RAID Level 1
- C) A server with NAS + RAID Level 3
- D) A server with NAS + RAID Level 5
- E) A server with NAS + RAID Level 6

Q6

Indicate the incorrect statements regarding the security threats? *

1 point

- A) Social engineering aims to convince a user to disclose secrets such as passwords.
- B) Phishing is typically carried out by email spoofing and it often directs users to enter details at a fake website.
- C) Denial of service attacks (DoS): are designed to make a machine or network resource unavailable to its intended users.
- D) Privilege escalation: describes a situation where an attacker with some level of restricted access is able to, without authorization, elevate their privileges or access level.
- E) None of above.

Base on the image, indicate the concept of this image representing for. *

1 point

Q7

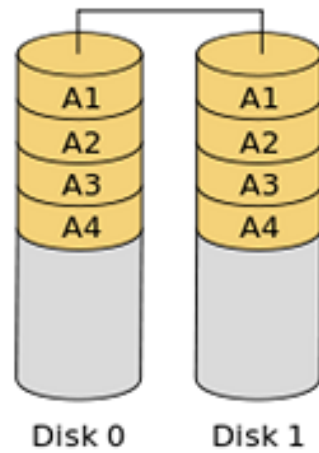


- A) Multi-factor authentication
- B) User password
- C) Network based Intrusion Prevention System
- D) Antivirus rules
- E) Firewall recommendations

Q8

Please indicate the RAID level of the diagram below, the two drives store the same copy of data. This type of RAID is mostly use for database storage for fact access and 100 redundant data.

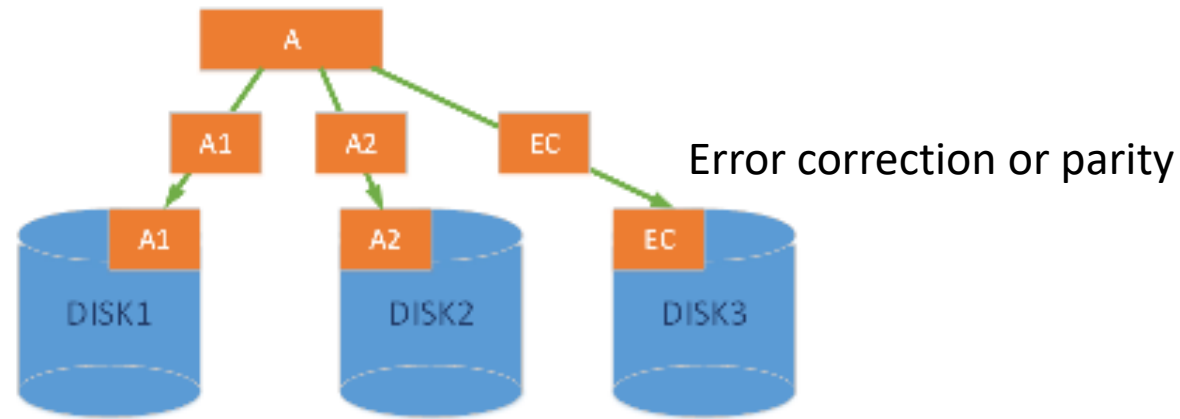
* 1 point



- A) RAID level 0
- B) RAID level 1
- C) RAID level 3
- D) RAID level 5
- E) RAID level 6

Q9

Please indicate the RAID level of the diagram below, the three drives (2 data * 1 point drive+ 1 parity drive). This type of RAID is mostly use for PACS images storage.

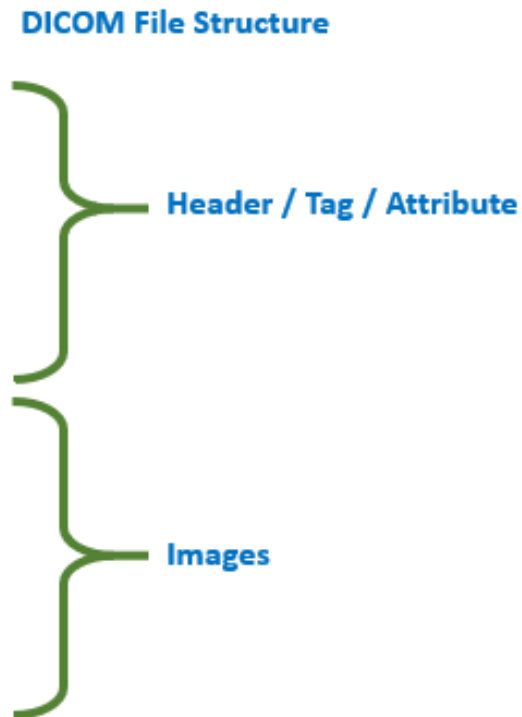


- A) RAID level 0
- B) RAID level 1
- C) RAID level 3
- D) RAID level 5
- E) RAID level 6

Q10

From the diagram below, which part of a DICOM file takes the biggest part of the file size. * 1 point

Preamble (128 bytes)
Prefix - 'D','I','C','M'
Header: Data Set - Group 1 (0002) - Element 1 (0002,0000) - Element 2 (0002,0001) - Element 3...etc. - Group 2 (0008) - Group 3...etc.
Image Pixel Intensity Data: 10011010011001011010100 01011010100100110100110 10100110010110101001001 10011010011001011010100 01011010100100110100111 10100110010110101001.....

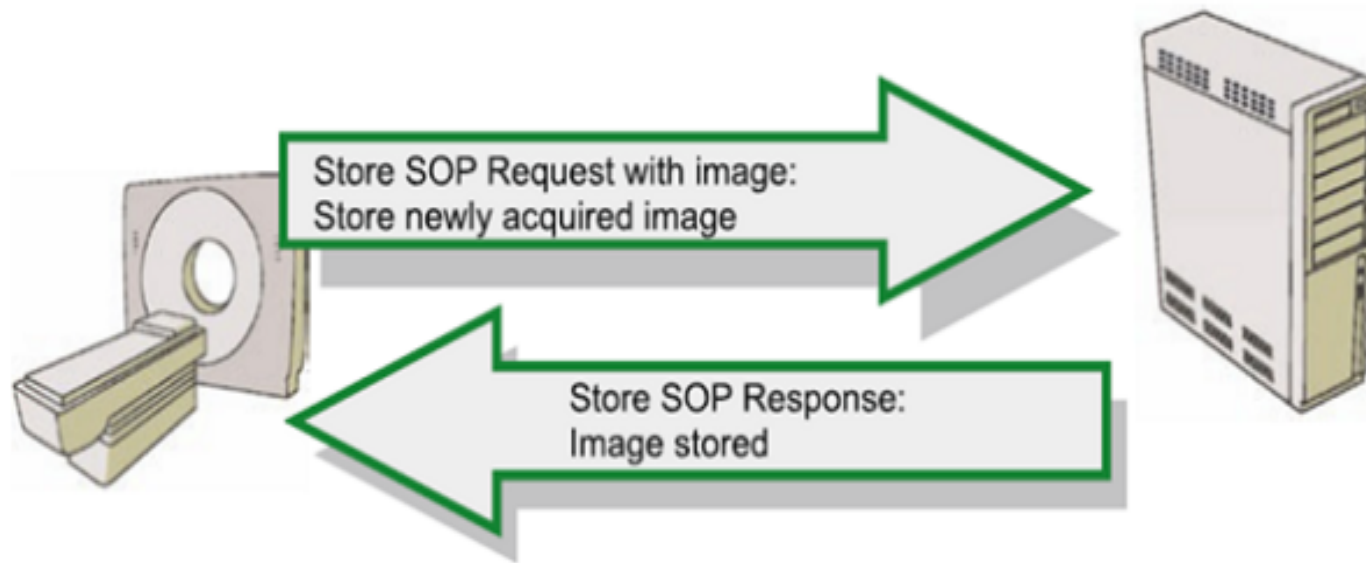


- A) DICOM Tag
- B) Header
- C) Image part (image data)
- D) Attribute
- E) DICOM object definition

Q11

From the diagram below, please identify the DICOM service class the diagram represents in DICOM communication.

★ 1 point



- A) Storage Service Class
- B) Print Management Service Class
- C) Query/Retrieve Service Class
- D) Verification Service Class
- E) Modality Worklist Service Class

Q12

From the diagram below, please identify the DICOM service class the diagram represents in DICOM communication.

* 1 point

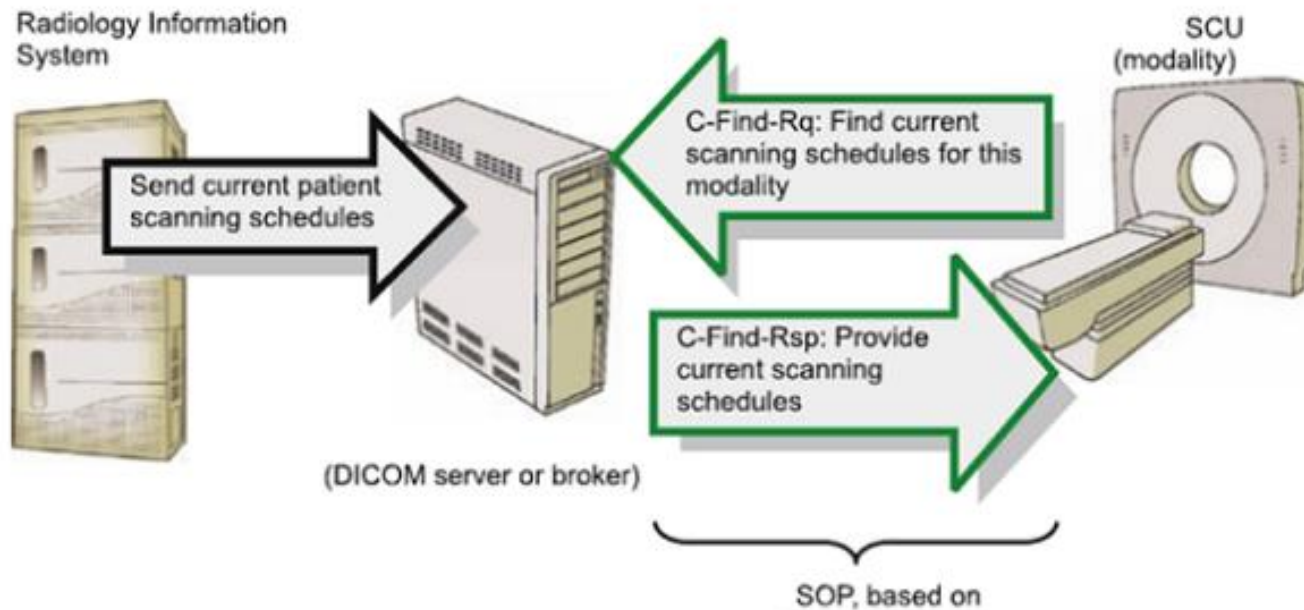


- A) Storage Service Class
- B) Print Management Service Class
- C) Query/Retrieve Service Class
- D) Verification Service Class
- E) Modality Worklist Service Class

Q13

From the diagram below, please identify the DICOM service class the diagram represents in DICOM communication.

* 1 point

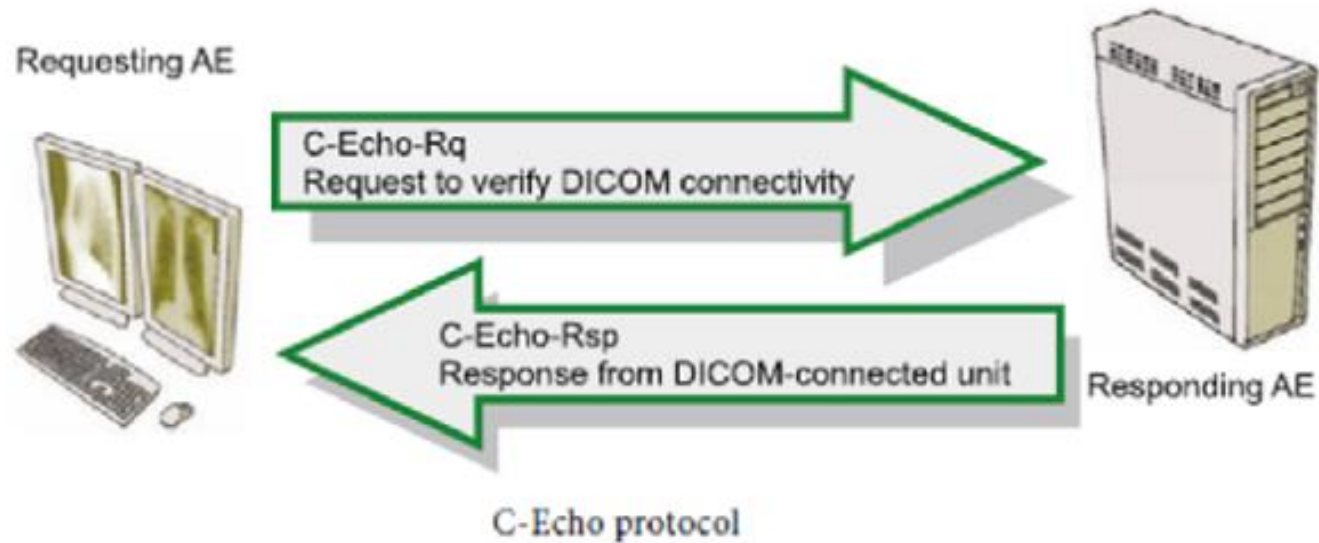


- A) Storage Service Class
- B) Print Management Service Class
- C) Query/Retrieve Service Class
- D) Verification Service Class
- E) Modality Worklist Service Class

Q14

From the diagram below, please identify the DICOM service class the diagram represents in DICOM communication.

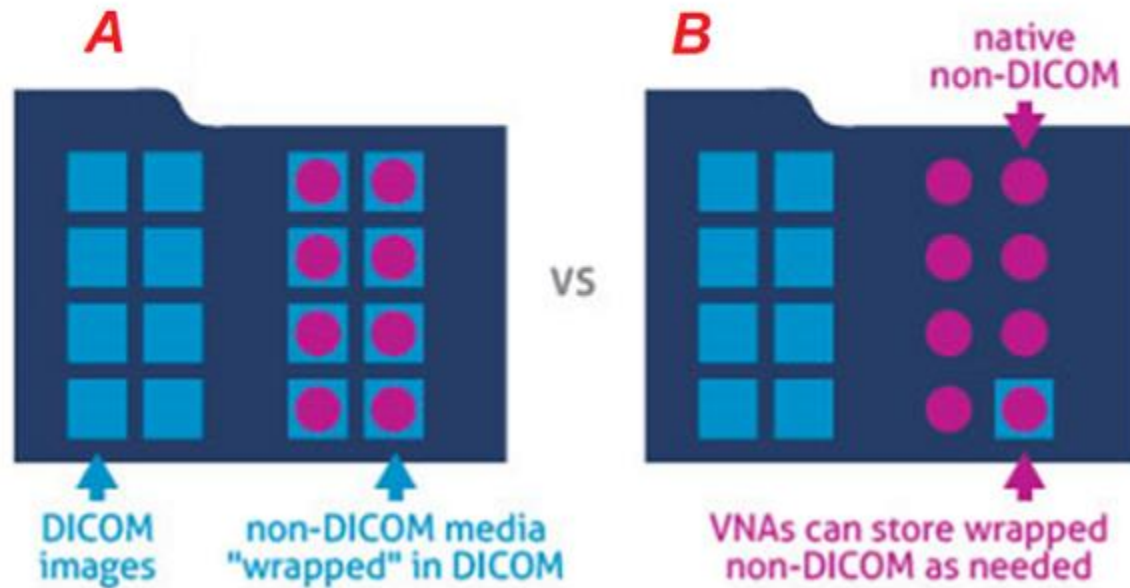
* 1 point



- A) Storage Service Class
- B) Print Management Service Class
- C) Query/Retrieve Service Class
- D) Verification Service Class
- E) Modality Worklist Service Class

Q15

From the Diagram, please indicate the "correct" concepts of PACS and VNA. * 1 point



- A) A is PACS, B is VNA
- B) A is VNA, B is RAID
- C) A is PACS, B is RAID
- D) A is VNA, B is PACS
- E) None of Above