Student Name:

Answer **all** of the following questions
Q1. Multiple Choices

1) Authentication means:
   a) The process of checking that the person attempting to gain access to a system is the person whose logon they are using.
   b) Giving user name and password
   c) Using Biometrics
   d) All of the above

2) In Fat-client access model:
   a) A user gets a local instance of the client software installed on their laptop or remote PC.
   b) A user does NOT get a local instance of the client software installed on their laptop or remote PC.
   c) Clients access the system via a web browser.
   d) All of the above

3) Examples of Standards:
   a). ICD -10 : International Classification of Diseases
   b). HL7
   c). DICOM
   d). All of the above

4) Feature detection means:
   a) Extracting useful parameters from the segmented regions.
   b) An automated classification procedure using useful parameters
   c) Spreading out the image gray levels throughout the visible range
   d) None of the above

5) In PACS Topology, core PACS sub-systems consists of:
   a) Image management and database management only
   b) users management and storage management only.
   c) Image management only.
   d) Image, database, users and storage managements

6) In Lossless compression,:
   a) It uses simple run-length encoding (RLE)
   b) It uses Huffman encoding
   c) It assigns shortest codes to most frequently occurring values.
   d) All of the above

7) In HIS, Managed Care System consists of:
   a). Care Plans
   b). Support Task list
   c). Support provision of care in unit
   d). All of the above

8) DICOM is:
   a). A codification of imaging information, such as information about the radiological examination, the patient and so forth;
   b). A protocol for the exchange of imaging data
   c). Intended to ensure that a wide variety of equipment can be interfaced with the network and data can be recognized by all nodes on networks
   d). All of the above

9) The following statement is **incorrect:**
   a) Px64 Compression is used to store images as mathematical equations rather than as pixel blocks.
   b). In fractal compression, the large image is compressed as a whole to allow more data to be compressed.
   c) Wavelet standard is used for codec interoperability to allow dissimilar codecs to interoperate and can be used for interactive real-time applications.
   d) All of the above

10) An example of Temporal subtraction is:
   a) Digital subtraction Angiography (DSA)
   b) Subtraction a reference image from later images that are registered to the first.
   c) Two images at different situations must be used
   d) All of the above.

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Q2. A) Draw a block diagram of a PACS system?

B) Design a computer – based infant apnea monitoring system (block diagram)?