

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**  
**B.Sc(NUCLEAR MEDICINE TECHNOLOGY) DEGREE**  
**EXAMINATIONS - September 2021**  
**Second Year**  
**COMPUTER & IMAGING PROCESSING TECHNIQUES IN NUCLEAR**  
**MEDICINE**

Three Hours

Maximum: 75 marks

**SECTION - A**

**I. Choose the Best Answer :**

**(10 x 1 = 10)**

1. Who is the father of Computer science?  
a.Allen Turing  
b.Charles Babbage  
c.Simur Cray  
d.Augusta Adaming
2. The first computers were programmed using  
a.assembly language  
b.machine language  
c.source code  
d.object code
3. CD-ROM stands for  
a.Compactable Read Only Memory  
b.Compact Data Read Only Memory  
c.Compactable Disk Read Only Memory  
d.Compact Disk Read Only Memory
4. Who is the chief of Microsoft  
a.Babbage  
b.BillGates  
c.BillClinton  
d.none of these
5. Which of the following is also known as brain of computer  
a.Control unit  
b.Central Processing unit  
c.Arithmetic and language unit  
d.Monitor
6. \_\_\_\_\_ is commonly used for hardener
7. Single coated film is common used in\_\_\_\_\_.
8. Drawroom is called\_\_\_\_\_
9. The\_\_\_\_\_Mas.
10. Place the patient in kneeling portion on the film incase of\_\_\_\_\_

(p.t.o.)

**II. Write Short Answers on any FIVE of the following:** (5 x 5 = 25)

11. What is the difference between scatter and attenuation correction?
12. Picture Archiving and Communication System.
13. List mode acquisition.
14. Gray scale.
15. Image acquisition interface.
16. Image storage in scan format.
17. CPU.

**III. Write Short Essays on any TWO of the following:** (2 x 10 = 20)

18. What is CPU in computer? Write about its components
19. Explain various steps involved in the manual wetfilm processing.
20. Explain the Nuclear Medicine Image Acquisition process.
21. The parameters related to optimum viewing of nuclear medicine images.

**IV. Write Essays on any ONE of the following:** (1 x 20 = 20)

22. The various methods of display of nuclear medicine images.
23. Define a Computer and its main compartments, input and output devices.

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(S.No.M21317)



