

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0321]**

**MARCH 2021**

**Sub. Code: 2302**

**(OCTOBER 2020 EXAM SESSION)**

**M.Sc. NUCLEAR MEDICINE TECHNOLOGY**

**FIRST YEAR (From 2019-2020 onwards)**

**PAPER II – COMPUTERS, FUNDAMENTALS OF ELECTRICITY AND  
ELECTRONIC**

***Q.P. Code : 282302***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. Explain about Gamma camera.
2. Write in detail about different types of semiconductors.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Components of computer.
2. Types of Network.
3. Database and its types.
4. List out the high level languages.
5. FTP protocol.
6. Logic AND, OR and NOT.
7. Full wave rectifier.
8. Metal oxide field effect transistor.
9. Photomultiplier tubes.
10. Coincidence & Anti coincidence circuits.

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**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 0222]

**FEBRUARY 2022  
(OCTOBER 2021 EXAM SESSION)**

**Sub. Code: 2302**

**M.Sc. NUCLEAR MEDICINE TECHNOLOGY  
FIRST YEAR**

**(Candidates admitted from 2019-2020 onwards – Paper II)**

**(Candidates admitted from 2020-2021 onwards – Paper III)**

**PAPER II & III – COMPUTERS, FUNDAMENTALS OF ELECTRICITY AND  
ELECTRONIC**

***Q.P. Code : 282302***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on: (2 x 20 = 40)**

1. Write in detail about applications of computer in Nuclear Medicine.
2. Explain different types of Power Supply.

**II. Write Short Notes on: (10x6 = 60)**

1. Functional units of computer.
2. Networking software.
3. How to insert table in word application.
4. Types of Operating system.
5. TCP/IP Protocol.
6. Ohm's law and the triangle.
7. Half wave rectifier.
8. Field effect transistor.
9. Filter circuits.
10. Pulse height analyser.

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