

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

[AHS 0423]

APRIL 2023

Sub. Code: 2471

**BACHELOR IN PROSTHETICS AND ORTHOTICS**

**THIRD YEAR (Regulation 2017-2018 onwards)**

**PAPER I – COMPUTER SCIENCE AND GRAPHICAL COMMUNICATION**

*Q.P. Code : 802471*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. What are the various communication devices that are used to transmit information from one network to another? Explain each.
2. How Orthographic and isometric projections of P and O components are useful in fabrication procedures?
3. Explain any three 2D commands.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Spreadsheet
2. Explain various file formats.
3. Explain the classification of computers. What are the characteristics of computer that differentiate it from all other electronic devices?
4. What is computer graphics? Explain its uses and advantages.
5. Explain with simple sketch and syntax of Modify commands in 2D.
6. Why are domain names required? What is the relationship between domain names and I.P addresses?
7. What is the difference between a quadrilateral and a polygon?
8. What is an auxiliary view?

**III. Short answers on:**

**(10 x 3 = 30)**

1. Annotation.
2. Plotting.
3. Binary Numbers.
4. List the draw commands in 2D Auto CAD.
5. Differentiate the “copy” and “move” command in 2D.
6. State the function of CAD system.
7. Types of Lines.
8. Drawing Instruments.
9. Chamfering.
10. DOS.

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