BACHELOR IN PROSTHETICS & ORTHOTICS (BPO)
THIRD YEAR
PAPER I – COMPUTER SCIENCE
Q.P. Code: 802431

Time: Three Hours   **Maximum : 100 Marks**
Answer all Questions

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. What do you understand by primary and secondary storage devices in computers? Name any five of each.
3. Explain the advantages and disadvantages of CNC, List the major parts of CNC machine tools.

II. Write notes on: (8 x 5 = 40)

1. Explain on Input and output devices.
2. Draw and explain laser printer.
3. Explain the classification of computers. What are the characteristics of computer that differentiate it from all other electronic devices?
4. What is word processing? Describe any five features of word processor.
5. Explain CAD-CAM technologies. Describe product cycle with detailed diagram.
6. Explain various dimensioning commands in 2D Auto CAD with syntax.
7. Write the difference between "rectangular array" and "polar array" commands.
8. List the variety of CNC machines available for product machining.

III. Short answers on: (10 x 3 = 30)

1. Describe different ways for creating presentation using MS-PowerPoint
2. Explain on spreadsheet and its features.
3. Write a short note on Central Processing Unit.
4. Write the role and application of fillet and chamfer commands in 2D?
5. Explain about NC / CNC / DNC systems.
6. Advantages of CNC machine tools.
7. Explain various options available in ZOOM command.
8. Explain with simple component that the CAD/CAM be the best application software for your prosthetics and Orthotics.
9. Explain in brief solid modeling.
10. Explain Autoscanner and its uses in prosthetics.

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Answer All questions

I. Elaborate on: **(3 x 10 = 30)**

1. What are the advantages and disadvantages of CAD CAM system in Prosthetic and Orthotic?
2. Explain about five function keys of Auto Cad.
3. Explain about input and output device of computer system.

II. Write notes on: **(8 x 5 = 40)**

1. Characteristics of computer.
2. Input Devices.
3. Operating system and its function.
4. Network topology.
5. Application and benefit of CAD.
6. Chamfer and fillet.
7. CNC Milling.
8. Computer virus.

III. Short answers on: **(10 x 3 = 30)**

1. Write three usages of computer.
2. What is bar code reader?
3. What do you understand by system software?
4. Write down the features of Microsoft Excel.
5. What is Modem?
6. Write about secondary devices with example.
7. What is difference between Cartesian and polar coordinate system?
8. What are the modifying tools used in Auto CAD software?
9. What you mean by UCS and WCS?
10. Write about Characteristics of digitizer.

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THIRD YEAR

PAPER I – COMPUTER SCIENCE

Q.P. Code: 802431

Time: Three Hours   **Maximum : 100 Marks**

Answer All questions

I. Elaborate on: (3 x 10 = 30)

1. Describe stepwise facility in CAD CAM system.
2. What you understand by operating system? Write about its function types and features.
3. Explain about CPU and its function in Computer.

II. Write notes on: (8 x 5 = 40)

1. Memory Unit.
2. Window Operating System.
3. Internet and Intranet.
4. Dimensioning in Auto Cad.
5. Function Key in Auto Cad.
6. Scanning system in Prosthetics.
7. Advantage and Disadvantage of CAD CAM.
8. Difference between Mini and Micro Computer.

III. Short answers on: (10 x 3 = 30)

1. Write three types of Printer.
2. What is super Computer?
3. Write three commands used in Unix OS.
4. What you understand by LAN?
5. Write about Automation.
6. Write about scaling.
7. What is an array?
8. What is NC and CNC Machine?
9. What you understand E mail?
10. What is antivirus software?

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THIRD YEAR

PAPER I – COMPUTER SCIENCE

Q.P. Code: 802431

Time: Three Hours   **Maximum : 100 Marks**

Answer All questions

I. Elaborate on: (3 x 10 = 30)

1. Modern Computers.
2. Computer Numeric Control (CNC).
3. Computer Network and Internet.

II. Write notes on: (8 x 5 = 40)

1. MS Power Point.
2. Read Only Memory (ROM).
3. Types of Display Unit.
4. Automation.
5. Arithmetic Logic Unit (ALU).
6. Types of Mouse.
7. Inkjet printers.
8. Compact Disc (CD).

III. Short answers on: (10 x 3 = 30)

1. Define CAM.
2. Uses of Master slide in MS Power Point.
3. Monitors.
4. Steps to insert image in MS Excel.
5. Uses of Printers.
6. Windows OS.
7. List few alignment commands in MS Excel.
8. How to draw a circle in AutoCAD?
9. Uses of group command in AutoCAD.
10. Uses of CAD/CAM in P & O field.

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