M. Sc. (Electronics) (Sem. IV) (CBCS) Examination

April / May - 2018

Computer Aided Designing : Paper-15

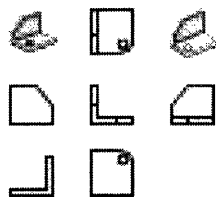**Faculty Code : 003**
Subject Code : 1154003

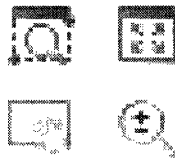Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

1 Answer any **seven** from the following :   **14**

1. Write the names of the different environments available in NX. What do you understand by the group or gallery ?

2. In the symbol of Work Coordinate System (WCS) what colours are assigned to XC, YC and ZC coordinate axis ? If WCS symbol is not displayed in the drawing window, what should be done to display it ?

3. What different items are available in Resource Bar ? Write the names.

4. What are the input modes of a Profile tool ?

5. Which different Rectangle Methods are available in Rectangle tool ? Explain any one.

6. What is the use of Exploded View? What are its types ? Mention the difference of the types.

7. The Chamfer tool is available in Direct Sketch group and Feature group of Home tab. What is the difference between these two? Explain with one example.

8. Identify from the following symbols the different types of views :

9. Identify the following symbols :

10. While drawing different entities, you want to display their dimensions also. What you should do for this? How will you do it ?

2 Answer any **two** from the following :
(A) Explain any seven geometric constraints with example.   7
(B) Write on the following :   7
    1.   Trimming sketched entities.
    2.   Creating a corner between sketched entities.
    3.   Extending sketched entities.
(C) Explain in detail how you can move the sketched entities using the Move Curve tool.   7

3 Answer the following :
(A) Write in detail on the Extrude dialog box.   7
(B) Write on how to create Linear and Circular sketch patterns.   7

OR

3 Answer the following :
(A) Discuss Draft and Chamfer features.   7
(B) Explain how one can create a solid revolved body using Revolve tool.   7

4 Answer the following :
(A) Write a note on how to create relative datum planes.   7
(B) Explain in detail how one can create grooves.   7

5 Answer any **two** from the following :
(A) Explain how to create Helix and Threads.   7
(B) Write on creating the Pockets and Drafts.   7
(C) Write a note on different constraints applied while creating assembly.   7
(D) Write all options of moving a component in an assembly.   7

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