



DAH-003-1154003

Seat No. _____

M. Sc. (Sem. IV) (CBCS) (W.E.F. 2016) Examination

April - 2022

Electronics : Paper - 15

(Computer Aided Designing)

(New Course)

Faculty Code : 003

Subject Code : 1154003

Time : $2\frac{1}{2}$ Hours]

[Total Marks : **70**

Instruction : All questions carry equal marks.

1 Answer the following : (any **seven**) **14**

- (1) Briefly explain “Modelling environment”.
- (2) Briefly explain chamfer feature.
- (3) Briefly explain “drafting environment”.
- (4) What are the system requirements for NX 10.0 ?
- (5) What different stages of “Constrains” a sketch attain after applying the constraints to it ?
- (6) How to lock the “automatically applied dimensions” ?
- (7) How to edit Dimension value and other parameters ?
- (8) What are geometric constraints ?
- (9) Write the various form of hole.
- (10) What are grooves ? What is the prerequisite for making the grooves ?

2 Answer the following : (any **two**) **14**

- (1) Explain any four tools of direct sketch group from fig. 1. **7**

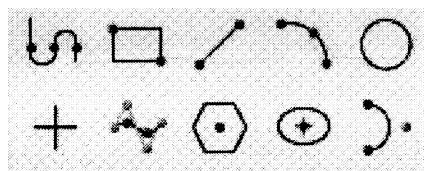


Fig. 1: Direct sketch group

(2) Explain geometric constraints from the Fig. 2.

7



Fig. 2: Geometric constraints

(3) How one can use “Resize curve” tool and “Offset Move Curve” tool ?

7

3 Answer the following :

14

(1) Consider Fig. 3 and explain “Offset Curve” tool.

7



Fig. 3: Offset Curve tool

(2) What does the “Quick Trim” tool do ? What are the types of trimming ? Explain each one.

7

OR

Answer the following : 14

(1) What is a Datum plane ? What are its types ? 7
Explain how to create relative Datum plane ?

(2) Explain the Boolean Operations available in Extrude 7 tool.

4 Answer the following : 14

(1) Consider the Fig. 4 and explain “Revolve” tool. 7

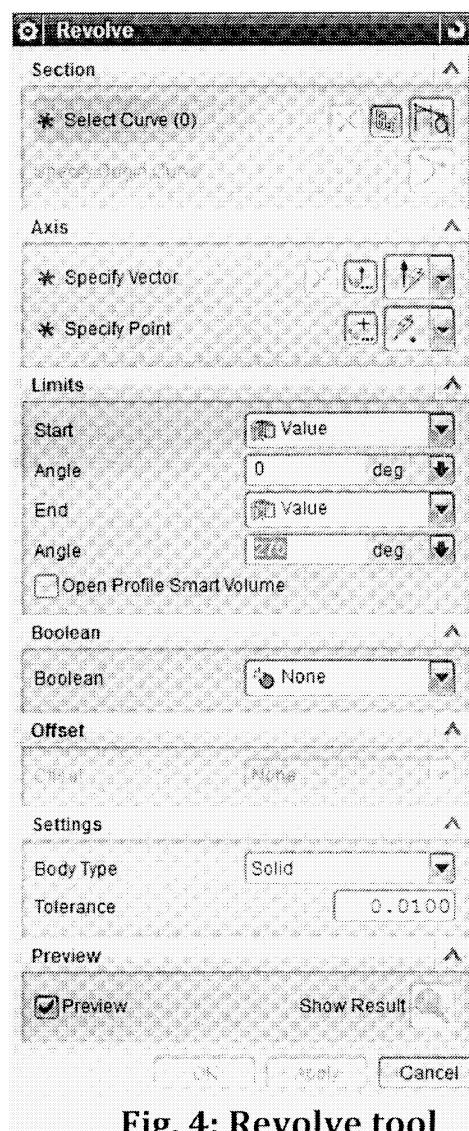


Fig. 4: Revolve tool

(2) Explain that how one can create rectangular slot ? 7

5 Answer the following : (any two) 14

(1) What are Ribs ? Explain the Rib tool in detail. 7

(2) What is Edge Blend ? Explain in detail Edge Blend tool. 7

(3) Consider Fig. 5 and explain how one can create a circular pattern using Pattern feature tool. 7

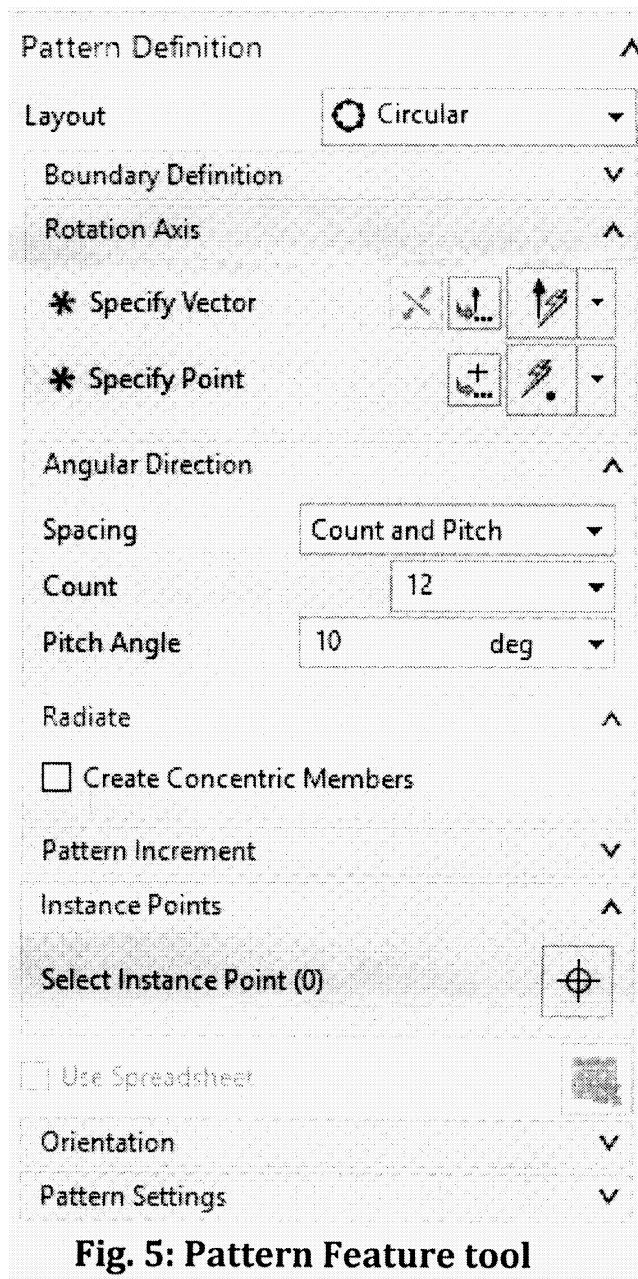


Fig. 5: Pattern Feature tool

(4) Explain Mirror feature tool. 7