



**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

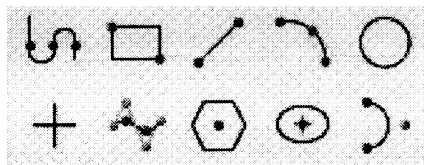
**Instruction :** All questions carry equal marks.

**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 ?

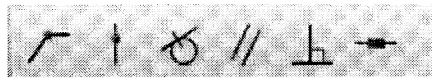
**2** Answer the following : (any two) **14**

- (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

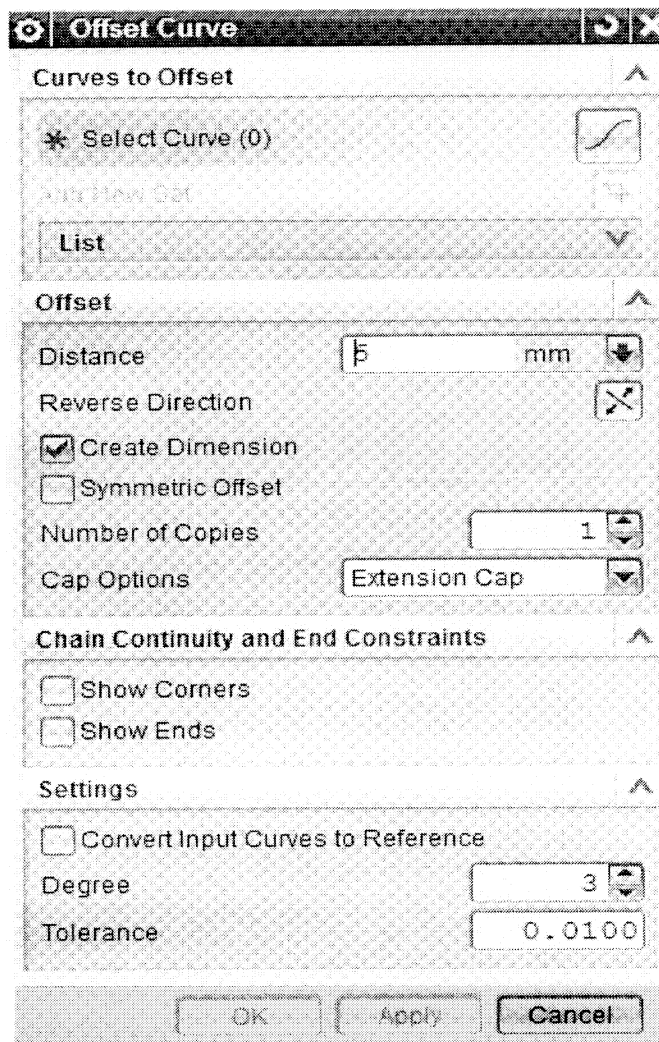


**Fig. 2: Geometric constraints**

- (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

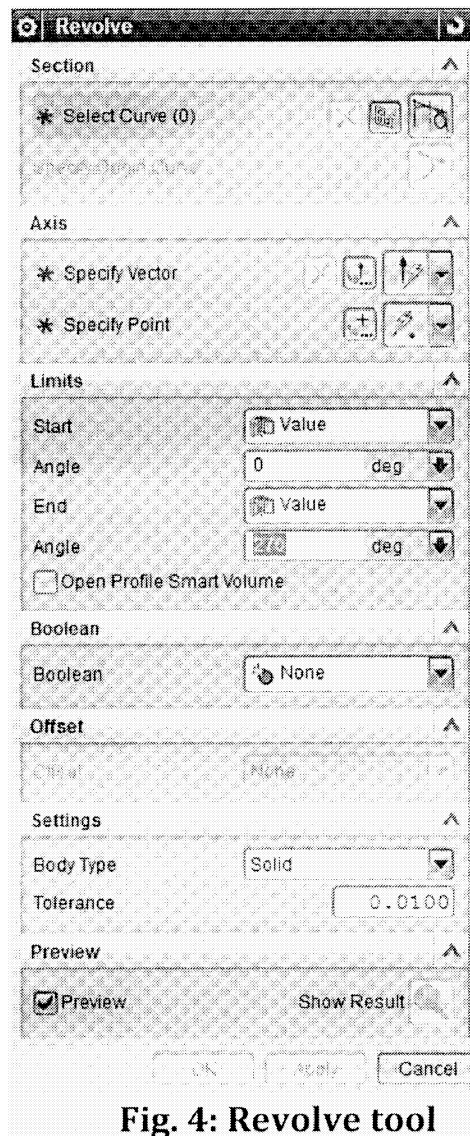
**OR**

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.

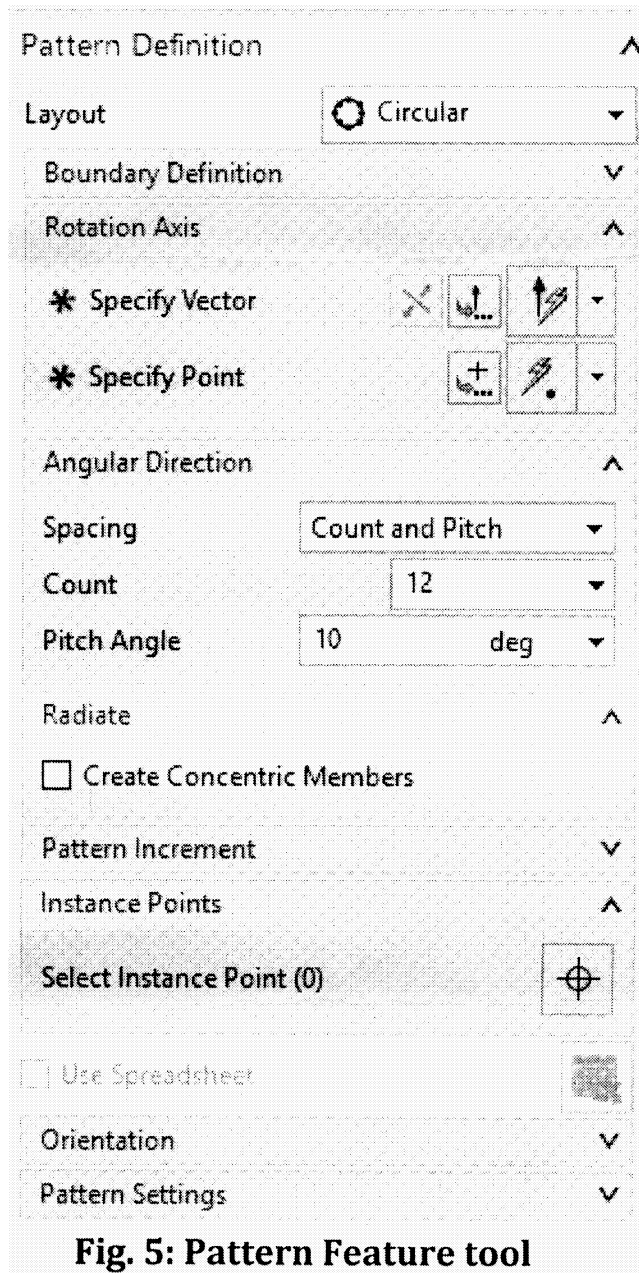
4 Answer the following : 14

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



- (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 on can create a circular pattern using Pattern feature tool. 7



**Fig. 5: Pattern Feature tool**

- (4) Explain Mirror feature tool. 7