HB-003-1154003

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

April - 2023

Computer Aided Designing : Paper - XIV
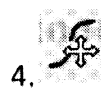
Faculty Code : 003
Subject Code : 1154003

Time : $2\frac{1}{2}$ Hours / Total Marks : 70

1 Answer any seven from the following : 14

(1) Write on "Assembly Environment" of NX and talk about its types.

(2) What is "Hello Lines"? How one can use them?

(3) Write about the two ways of creating sketch.

(4) Briefly explain Pan tool and Fit tool with their symbols.

(5) Identify below tools of sketch curve gallery.

(6) What is a feature? What are its types?

(7) How one can Hide and Show the entities?

(8) Explain "Until Next" and "Through All" termination options available in the Start and End drop down lists in the Limit rollout of the Extrude dialog box.

(9) Explain - How one can she entire solid body?

(10) Write on "Fully Constrained" and "Over constrained" stage of sketch.

2 Answer any two of the following :　　　　　　　　　　　　　　　　**14**

　　(a)　How to select and deselect Objects in NX? Also write on available selection gestures (with diagram)

　　(a)　What does the "Quick Trim" tool do? What are the types of trimming? expalin each one (with necessary diagrams of Drawing window)

　　(c)　Explain in detail - creating types of "Simple Hole" using Hole Tool.

3 Answer the following :　　　　　　　　　　　　　　　　　　　　**14**

　　(a)　Explain the "Rectangle" tool of Direct Sketch group; also show the symbols of different drawing methods.

　　(b)　Expalin how one can create polygon pattern of extruded model, consider the dialog box shown in **fig. 1**.
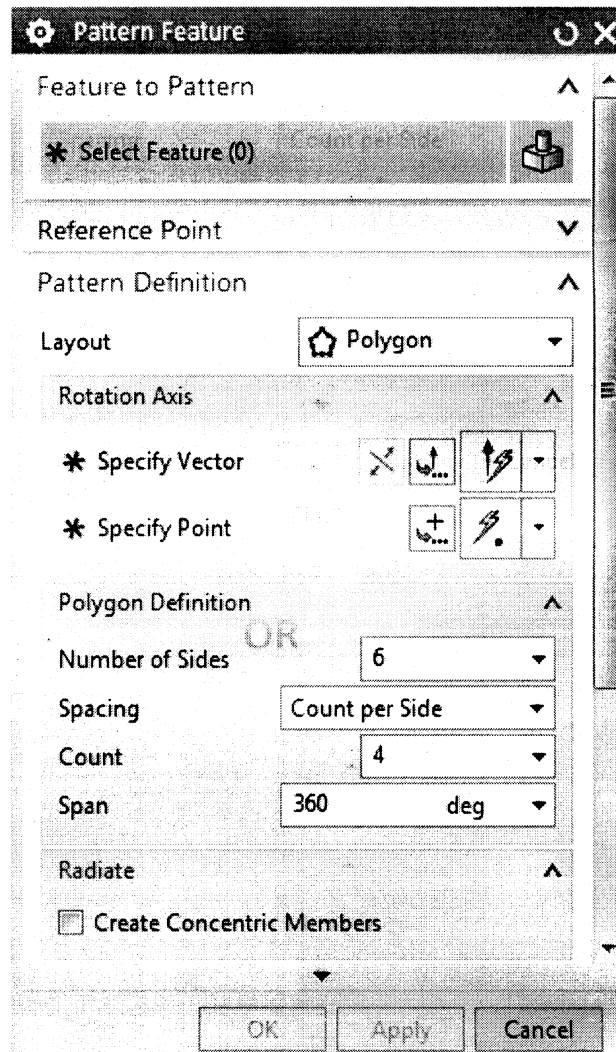

Fig.1

OR

(a) How one can create U-Slot, when through slot check box is checked.

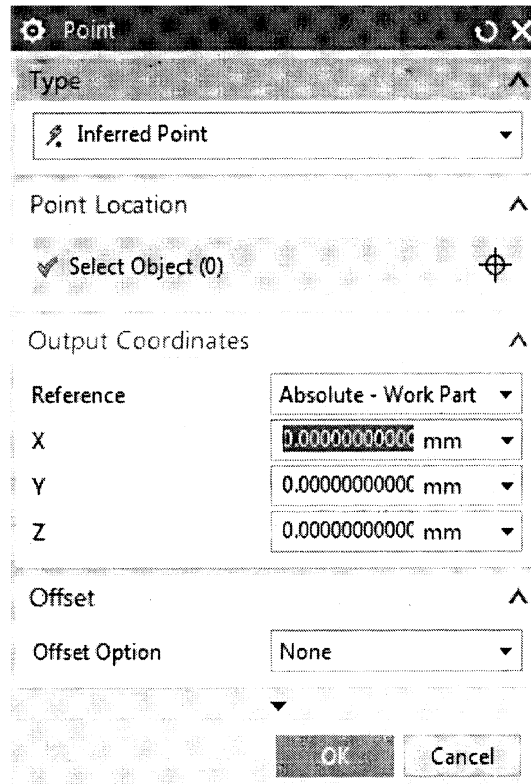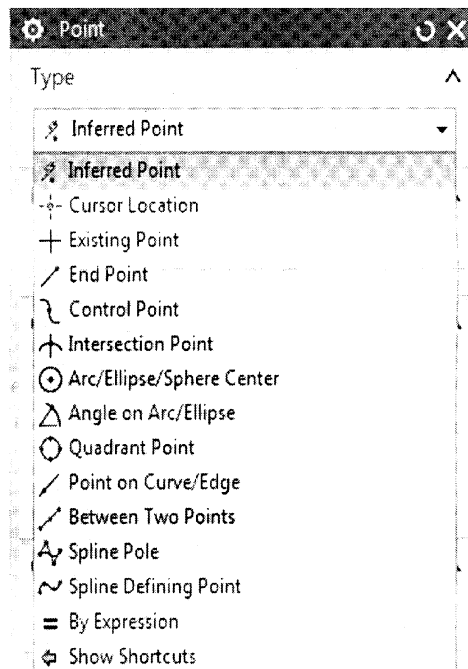(b) Expain tool dialog shown in **Fig. 2** and write on each type shown in **Fig. 3**.

Fig.2

Fig.3

4 Answer the follwoing : **14**

    (a) Explain the boolean operations available in extrude tool (with necessary diagrams of drawing window)
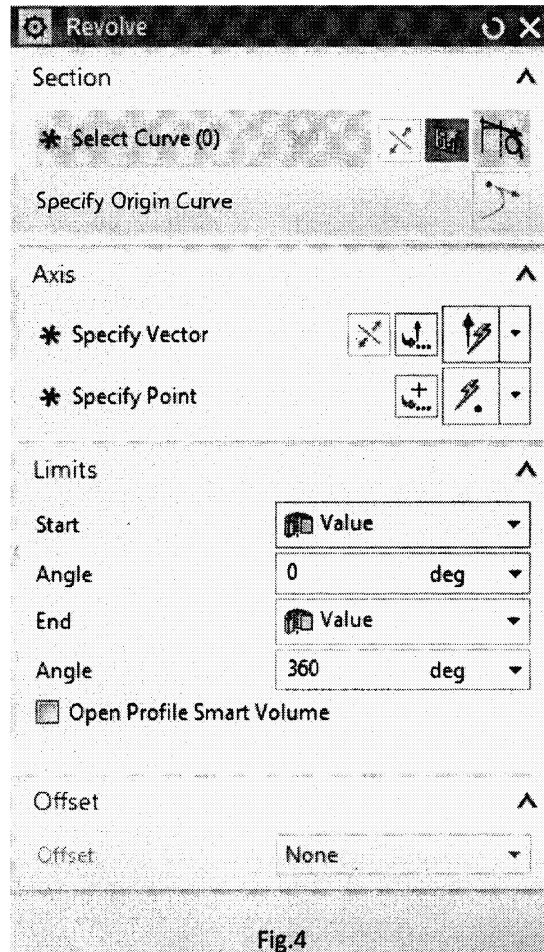
    (b) Write about the rollouts shown in **Fig. 4**.

Fig.4

5 Answer any two of the following : **14**

    (a) Explain the functions of mosue in NX.

    (b) What is a Datum Plane? explain their types.

    (c) Write on shell tool. Explain "Remove faces, then shell".

    (d) What are geometric constrains? What is their use? Name and explain below shown constraints.

       1.   2.   3.   4.