



BBC-003-1154003 Seat No. _____

M. Sc. (Sem. IV) Examination

June-July - 2021

Electronics

Computer Aided Designing : Paper-15

Faculty Code : 003

Subject Code : 1154003

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

Instructions : Answer any five questions from following ten questions

1 Answer the following (each question is of 2 marks) **14**

- (1) Write very briefly on Modeling environment. List other environments.
- (2) What do you understand by parametric modelling?
- (3) How geometric constrains are useful in sketching? Show with one example.
- (4) What different units of length measurements are offered in NX10.0? How one can set the units?
- (5) Write main items of the "Create Sketch" dialog box. (No drop-down items).
- (6) Write briefly about "Profile" tool.
- (7) Write briefly about "rectangle" tool.

2 Answer the following (each question is of 2 marks) **14**

- (1) Explain "Line" tool briefly.
- (2) What is the use "Arc" tool? How one can use it?
- (3) Describe very briefly the "circle" tool.
- (4) How to use of "Sketch Point"? Where it is used?
- (5) Compare the "Chamfer" and "Fillet" tools.
- (6) Demonstrate the use of "Quick Trim" tool.
- (7) Explain briefly "Quick Extend".

3 Answer the following (each question is of 7 marks) **14**
(1) Explain in detail about "Offset curve" in direct sketch
(2) Explain in detail the "linear pattern" under the "pattern curve" in direct sketch.

4 Answer the following (each question is of 7 marks) **14**
(1) Write on detail about the "Extrude" tool.
(2) Explain in detail the "Revolve" tool.

5 Answer the following (each question is of 7 marks) **14**
(1) Write a note on the "Hole" feature of NX 10.0
(2) Write on "Groove" tool.

6 Answer the following (each question is of 7 marks) **14**
(1) Explain slot making process in NX 10.0
(2) How one can create Ribs in 3D object? Explain in detail.

7 Answer the following (each question is of 7 marks) **14**
(1) Explain Linear pattern feature.
(2) Explain Mirror feature tool

8 Answer the following (each question is of 7 marks) **14**
(1) How one can create threads in NX 10.0? Explain in detail.
(2) What is the use of relative plane? How one can create such planes?

9 Answer the following (each question is of 7 marks) **14**
(1) Explain Shell feature.
(2) How to create pattern along a curve? Explain with one example.

10 Answer the following (each question is of 7 marks) **14**
(1) List the geometric constraints. Explain any seven.
(2) Write any three names of dimension tools. Explain in detail about linear dimension tool.
