



**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 constraints 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.
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