



MBN-003-0271001 Seat No. _____

M. Sc. (ECI) (Sem. X) (CBCS) Examination

April / May - 2018

**Futuristic Electronics & Technology : Paper - 37
(New Syllabus)**

Faculty Code : 003

Subject Code : 0271001

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

[Total Marks : 70

Instructions : (1) All questions carry equal marks.
(2) Figures on right hand side indicate marks.

1 Answer the following : (Any Seven) **14**

- (1) List the types of workspace in AutoCAD software.
- (2) Explain fillet and chamfer command with example.
- (3) Give the full form of PLA, ABS, STL and UCS.
- (4) List the types of in canvas navigation bar controls.
- (5) List the types of in canvas view port controls.
- (6) What is full form of RM, RP, and RT ?
- (7) What is difference between MOVE and COPY command ?
- (8) Briefly explain SUBTRACT command with suitable example.
- (9) List out the types of ARC.
- (10) Write the function of cancelling, undoing and erasing commands.

2 Answer the following : (Any Two)

- (1) Draw and explain laser sintering/melting 3D printing process. **7**
- (2) Write a note on TRIM, OFFSET and MIRROR command with suitable example. **7**
- (3) Write about a working of 3D printer. How it can make an object ? **7**

- 3** Answer the following :
- (1) Draw only diagram of electron beam 3D printer. **5**
 - (2) List the draw panel and modify panel menu and it's submenu of AutoCAD. **5**
 - (3) Write a note on food materials and Plastic used in 3D printing technology. **4**
- OR**
- 3** Answer the following :
- (1) What is 3D printing technology ? Explain in brief. **7**
 - (2) Draw and explain FDM/FFF 3D printer. **7**
- 4** Answer the following :
- (1) What is stereo lithography process in 3D printer ? Draw and explain in brief. **7**
 - (2) Write any two application of 3D printing technology. **7**
- 5** Answer the following : (Any two)
- (1) Write a note on binder jetting 3D printer. **7**
 - (2) What is SDL 3D printer ? Explain in brief. **7**
 - (3) Write a note on types of coordinates systems. **7**
 - (4) Briefly explain polar and rectangular array with suitable example. **7**
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