Reg. No. ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

## V Semester B. Voc. IT Degree Examination, March - 2021
## COMPUTER GRAPHICS AND VISUALIZATION
### (CBCS 2018-19 and Onwards)
### Paper : BVIT - 504

**Time : 3 Hours**                       **Maximum Marks : 70**

*Instructions to Candidates:*

Answer **ALL** the sections.

### SECTION - A

Answer any **TEN** of the following.                    **(10×2=20)**

1.   Define GRAPHICS.

2.   List any four interactive input devices.

3.   Define Line Attributes.

4.   Define Two-Dimensional Viewing.

5.   State Depth Cueing.

6.   What is a Window in 2D - Viewing.

7.   Define Projection.

8.   List the various Three Dimensional display methods.

9.   Write the LINE function.

10.  What are Hard Copy Devices?

11.  What are the various types of Basic Transformations?

12.  What is Inquiry Function.

**[P.T.O.**

# SECTION - B

Answer any **Five** full questions.      (5×10=50)

**13.** a) Explain Line Drawing Algorithm.      (5)

     b) Explain RASTER SCAN SYSTEMS.      (5)

**14.** a) Explain the types of video display devices.      (5)

     b) Explain Circle. Generating Algorithms.      (5)

**15.** a) Explain Area Filling Algorithm.      (5)

     b) Explain Composite Transformation.      (5)

**16.** a) Explain Window - to - view port coordinate transformation.      (5)

     b) Write note on interactive picture construction methods.      (5)

**17.** a) Explain Parallel and Perspective Projection.      (5)

     b) Explain the Process of Back Face Removals.      (5)

**18.** a) Explain Three - Dimensional Transformation.      (5)

     b) Explain Viewing Transformation.      (5)

**19.** a) Explain 3D Scaling and Rotation.      (5)

     b) Explain Curve Clipping.      (5)

**20.** a) Explain Logical Classification of Input - devices.      (5)

     b) Write notes on color and Grayscale Style.      (5)