Total number of printed pages-4

3 (Sem-6/CBCS) CSC HC 2 (i) What do you mean by emissive display

2022

**COMPUTER SCIENCE** 

(Honours) ded William

Paper : CSC-HC-6026

(Computer Graphics) (v) Explain bri

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Define the following terms : (any seven) 1×7=7 (i) Frame buffer (ii) pixel (iii) Resolution (iv) Aspect ratio (v) CRT (vi) Window (vii) Clipping (vii) Scaling (ix) LED (x) LCD

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- 2. Answer the following question : (any four) 2×4=8
  - (i) What do you mean by emissive display?
  - (ii) What is computer graphics?
  - (iii) What do you mean by animation?
  - (iv) What is scan conversion in computer graphics?
  - (v) Explain briefly about zooming.
  - (vi) What do you mean by translation?
  - (vii) What is viewing transformation? (viii) What do you mean by RGB?
- 3. Answer the following questions as directed : (any three) 5×3=15
  - (i) Write the essential application of computer graphics.
  - (ii) Write the difference between random scan and raster scan display.
  - (iii) Explain the boundary filled algorithm.
  - (iv) Explain the working principle of CRT.

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- (v) Explain the window to viewport transformation.
  - (vi) What are different 3-D geometric transformations? Explain.
  - (vii) Why is homogeneous co-ordinate system used in computer graphics?
- (viii) What do you mean by rotation ? Explain it.
- Answer the questions as directed : (any three) 10×3=30
  - (i) Explain the DDA algorithm with its advantages and disadvantages.
  - (ii) Explain midpoint circle algorithm.
  - (iii) Explain Cohen-Sutherland line clipping algorithm.
  - (iv) Explain different text clipping strategies.
  - (v) Explain parallel projection and perspective projection. 5+5=10

3

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- (vi) Explain about reflection technique.
- (vii) Explain about various applications of animation.
- (viii) What is flat panel display? Explain its advantages and disadvantages.

Answerene questions as directed (10) (10) (any three) rolenar gnivery at the 3=30

(e) Explain briefly about zooming i

(i) Explain the DDA algorithm with its advantages and disadvantages.

(ii) Explain midpoint circle algorithm, midpoint

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(v) Explain parallel projection and

