Roll No. Total No. of Pages: 02

Total No. of Questions: 09

BMCI (2014 & Onwards)/Mobile Computing & Internet

(Sem.-3)

COMPUTER GRAPHICS

Subject Code: BSBC-602 M.Code: 72584

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly:

- a) Define Computer graphics.
- b) What are digitizers?
- c) Define RGB color model.
- d) What are area filling techniques?
- e) What are Cartesian co-ordinates?
- f) Define Geometric transformations.
- g) What is the significance of scaling transformations?
- h) What is shearing? What is its need?
- i) What are the characteristics of 3D graphics?
- j) What are homogeneous co-ordinates?



SECTION-B

- 2. Explain how raster scan systems are different from random scan sytem?
- 3. Discuss various flood filling techniques.
- 4. Define Translation and reflection. How these transformations are performed in 3D graphics?
- 5. Write Sutherland Hodgeman algorithm for clipping.
- 6. What are the various graphics display devices? Explain.

SECTION-C

- 7. What are input devices? Explain **any five** input devices with their relevant merits and demerits.
- 8. What is the need of scan conversion? Write end explain Bresenham's algorithm for scan converting a line.
- 9. What is projection? Discuss its significance. Explain how parallel projection is different from perspective projection.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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