

KAMARAJ COLLEGE (Autonomous)

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

(3 Pages)

Reg. No:.....

Question Code: 26E00210

Course Code : 24USMA41

UG Degree - End Semester Examinations, April 2026

Fourth Semester
B.Sc., MATHEMATICS

Geogebra

(For those who joined in July 2024 onwards)

Time : 3Hours

Maximum : 75 Marks

PART - A (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer:

- CO:1 1. The extension of Geogebra is _____.
- K:1 (a) .gbb (b) .bgb
(c) .bgg (d) .ggb
- CO:1 2. Geogebra is an interactive _____ system.
- K:1 (a) Geometry (b) Series
(c) Algebra (d) Calculus
- CO:2 3. Segments are always named with _____.
- K:2 (a) Upper case letter (b) Lower case letter
(c) Both (a) and (b) (d) Numbers
- CO:2 4. Each interior angle of a regular hexagon is _____.
- K:2 (a) 90° (b) 100°
(c) 120° (d) 136°
- CO:3 5. Pictures can be inserted from the clipboard to OO writer using _____.
- K:1 (a) ctrl - V (b) ctrl + V
(c) ctrl + P (d) shift - P
- CO:3 6. Which figure has all sides equal and all angles equal?
- K:1 (a) Rhombus (b) Rectangle
(c) Square (d) Trapezium

- CO:4 7. Which tool is used to insert text into the graphics view in
K:2 Geogebra?
- (a) Move Tool (b) Point Tool
(c) Text Tool (d) Pen Tool
- CO:4 8. Where is the Text tool located in Geogebra?
K:2
- (a) Algebra view (b) Tools menu
(c) Toolbar of graphics view (d) Settings menu
- CO:5 9. Which Geogebra view is mainly used to create static diagrams?
K:1
- (a) CAS view (b) Spreadsheet view
(c) Graphics view (d) Probability calculator
- CO:5 10. Which tool is used to move or translate a picture in Geogebra?
K:1
- (a) Point Tool (b) Move Tool
(c) Slider Tool (d) Pen Tool

PART - B (5 X 5 = 25 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 250 words.

- CO:1 11. (a) How to save Geogebra files? Explain.

K:3

(OR)

(b) Explain Geogebra's User interface.

- CO:2 12. (a) How to use sliders to modify parameters?

K:3

(OR)

(b) Explain algebraic input and commands in Geogebra.

- CO:3 13. (a) Explain the steps for inserting pictures into the graphics
K:4 view.

(OR)

(b) Explain the slope function.

- CO:4 14. (a) How to attach text to an object?

K:3

(OR)

(b) How do you insert dynamic text?

- CO:5 15. (a) Describe the procedure for inserting a picture file into MS
K:4 word.

(OR)

(b) Explain the best fit line.

PART - C (5 X 8 = 40 Marks)

Answer ALL Questions choosing either (a) or (b).

Answer should not exceed 500 words.

CO:1 16. (a) Explain rectangle construction.

K:5 **(OR)**

(b) Explain square construction.

CO:2 17. (a) Explain regular hexagon construction.

K:5 **(OR)**

(b) Explain the library of functions.

CO:3 18. (a) How do you create a Geometric Figures Memory Game?

K:4 **(OR)**

(b) Explain the process of creating a Function Domino Game.

CO:4 19. (a) Explain the rotation of a polygon.

K:6 **(OR)**

(b) How to translate pictures. Explain.

CO:5 20. (a) Explain the process of creating dynamic worksheets.

K:3 **(OR)**

(b) Explain Static Instructional Materials.