KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Technology) 2024 Admission
II Semester Final Examination – August 2025

FPE 1204   **Engineering Drawing and Graphics (1+2)**   Marks: 50
Time: 2 hours

I   **State True or False**   (10x1=10)
1. RF is a dimensionless entity in scales.
2. Number of faces in a dodecahedron are 12.
3. Sectional views provide clarity and reveal internal features of a part.
4. Methods for the development of surfaces are radical line method.
5. On isometric plane, a circle appears as an ellipse.

Fill in the blanks
6. Sum of interior angles of pentagon is ……………
7. Standard length of the arrowhead of dimension lines is……………mm
8. For marking angles, …………….. drawing tool is used.
9. Number of pairs of parallel lines in regular Hexagon is ……………
10. The included angle of a pentagon is ……°

II   **Write short notes on ANY FIVE of the following**   (5x2=10)
1. Define orthographic projections.
2. Define pitch, margin with respect to riveting.
3. Write about basics of dimensioning.
4. Describe flanged and cap nut.
5. Describe representation of threads.
6. Write diagram of Butt joint and indicate parts.
7. Write about foundation bolts.

III   **Answer ANY FIVE of the following**   (5x4=20)
1. Write sum of interior angle and each angle for the following:
    Triangle, Quadrilateral, Pentagon, Hexagon, Octagon and Nonagon
2. Write about drawing area, command window, status bar and standard tool bars used in AutoCAD.
3. Write about section lining and cutting plane.
4. Write about geometrical modelling and engineering analysis in CAD.
5. With neat diagram explain third angle of projections.
6. Write about applications of computer graphics.
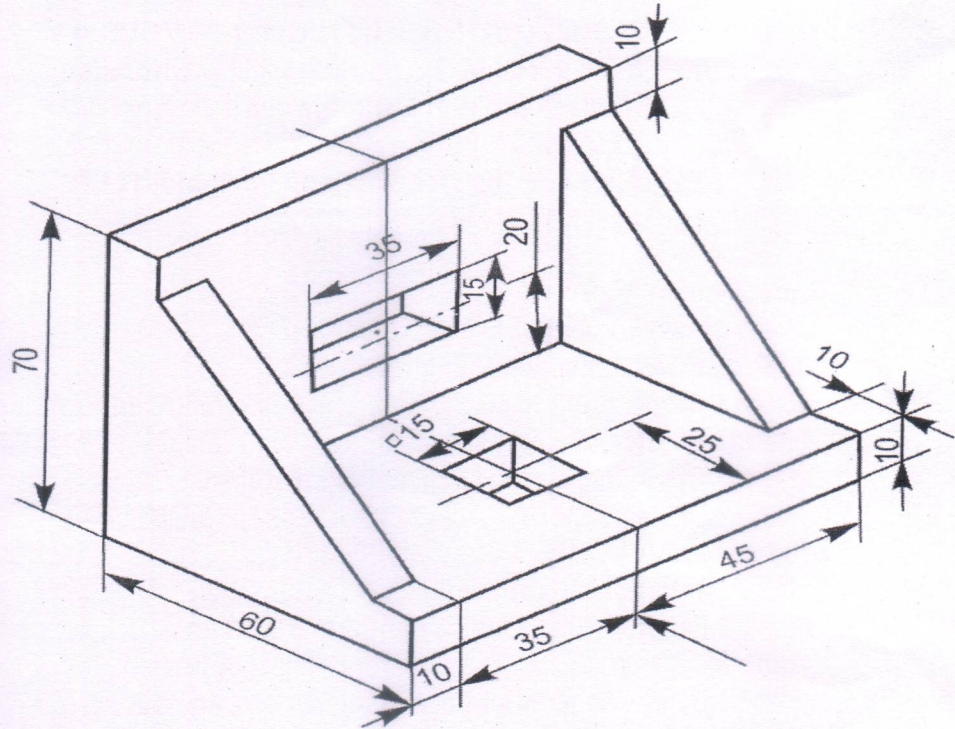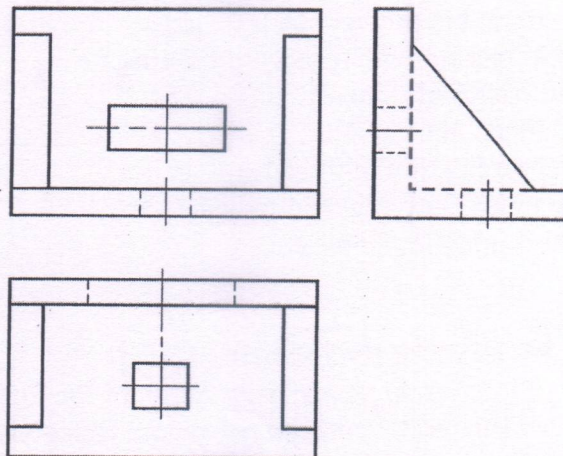7. Illustrate on planes perpendicular to one plane and parallel to other plane

IV **Write an essay on ANY ONE of the following**   **(1x10=10)**

1. Draw front, top and right view of the following image

2. Draw isometric view for the following views (Assume appropriate units)

****