

Final Exam Drafting

Time: 90 minutes

Spring 2020/2021

Date: 31/5/2021

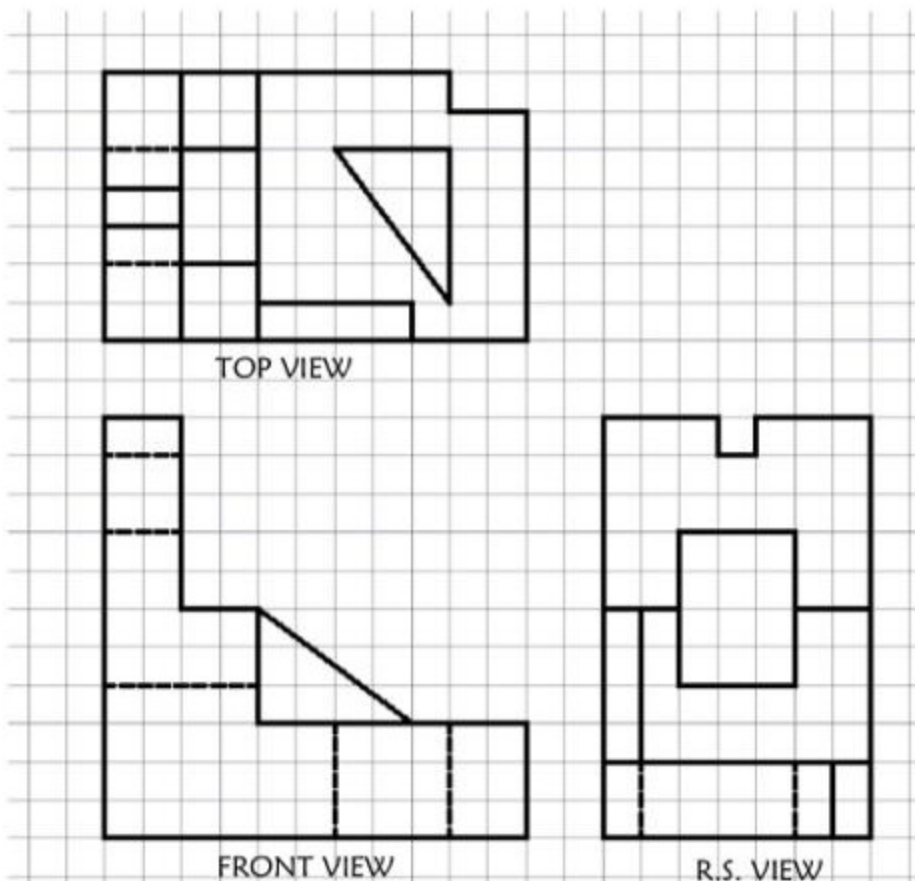
*Final Exam*

*This exam contains four questions. The answers must be delivered on two answer sheets.*

هذا الامتحان مكون من أربعة أسئلة. تُسَلَّم الأجوبة على ورقتين.

**Question (1):****(10 Marks)**

Use the isometric grid to construct an isometric drawing for the given projections by instruments.

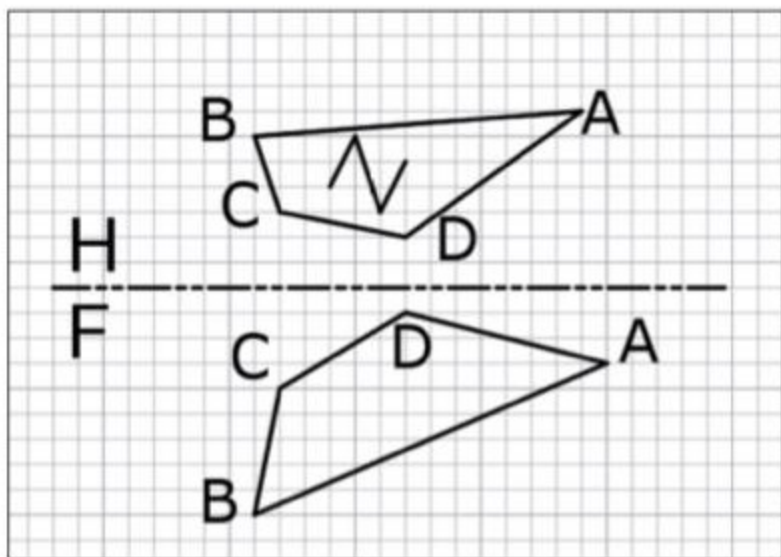


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**Question (3):**

**(5 Marks)**

Using the two given views only, Find the frontal projection of the letter N which lies on plane (ABCD).



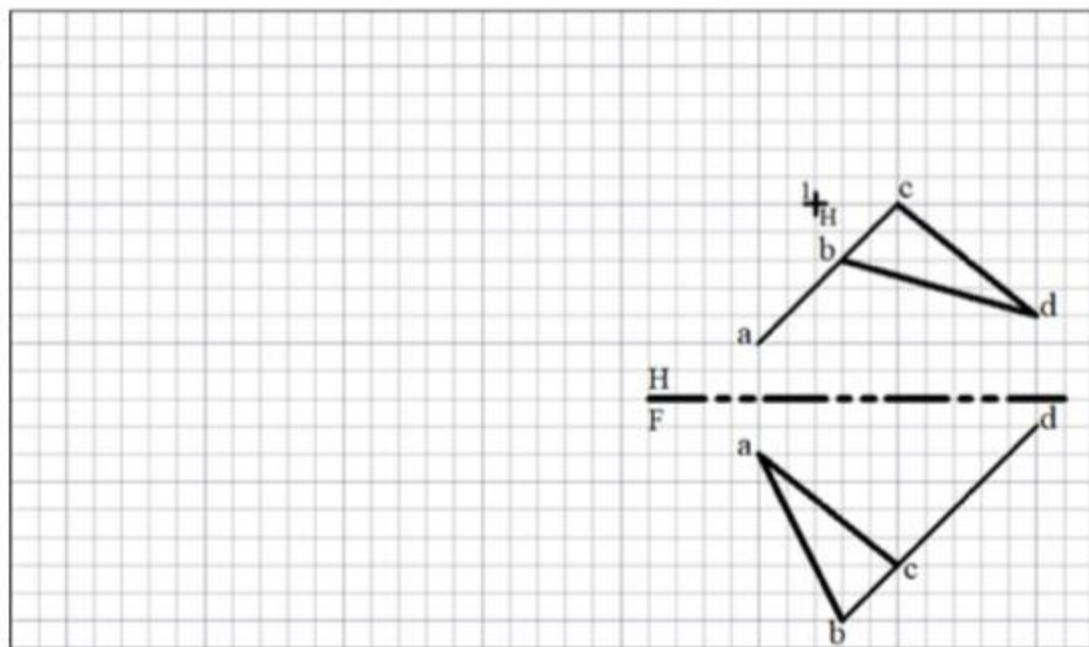
**Question (4):**

**(5 Marks)**

Given the horizontal and frontal views of two intersected planes (abc) and (bcd).

Determine the dihedral angle between the planes. Show all constructions.

Dihedral Angle = .....



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**Question (2):**

**(5 Marks)**

Given the horizontal and front views of line **(AB)** and point **(C)**:

a. Find the true size of the area formed by the line **AB** and point **C**.

*Area = ..... (mm<sup>2</sup>)*

b. Find the shortest distance between line **AB** and point **C**.

*Shortest Distance = ..... (mm)*



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