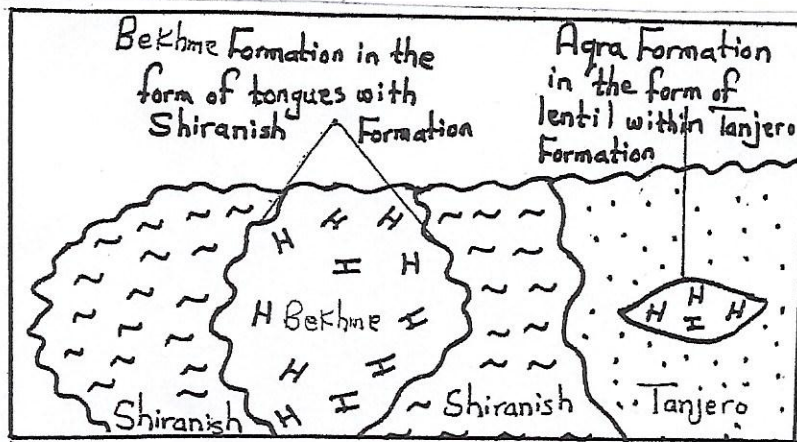


1. Draw sketch to show (lensil and Tongue) in Kurdistan Region.



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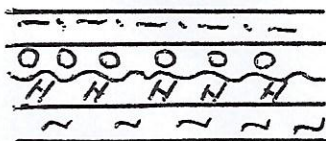
2. Mention only the suitable methods or logs to define or recognize Lithology.

- * Electric Logs - Special Focused Logs
 - ↓
 - gamma-ray Log
- * Radioactivity Loggy - Neutron Curve (Hydrogen Log)
- * Drilling Time Logs

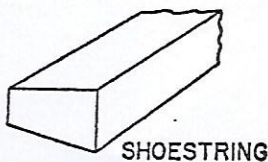
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3. Draw Only:

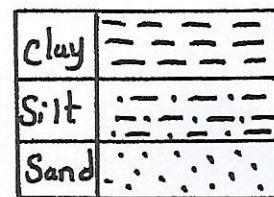
* Paraconformity



* Shoestring Lithosome



* Continuous Gradation



* Intercalated Contacts



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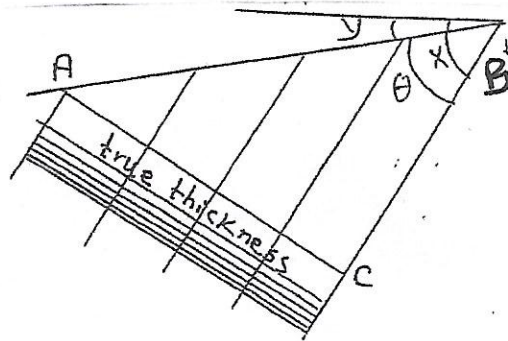
4. List all Ranks of the followings:

<u>Time-Stratigraphic Units</u>	<u>Geologic Climate Units</u>	<u>Geologic Time Units</u>
Eonothem Erathem System Series stage	Glaciation Interglaciation Stade interstade	Eon Era Period Epoch Age

5. Calculate true thickness of the inclined strata, where slope and dip are in the same direction, dip angle = 60° , slope angle = 15° , Length of slope = 10.325 m. ($\sin 30^\circ = 0.5$; $\sin 45^\circ = 0.707$; $\sin 60^\circ = 0.866$).
Draw.

Slope and dip in the same direction
dip > slope
 $\theta = \text{dip } (x) - \text{slope } (y)$

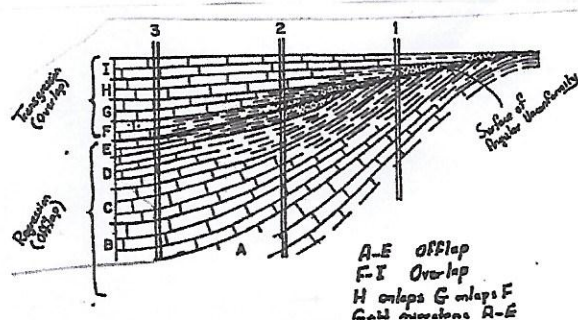
$$\begin{aligned} \text{True thickness} &= \text{slope} \times \sin \theta \\ &= 10.325 \times \sin (60 - 15) \\ &= 10.325 \times \sin 45^\circ \\ &= 10.325 \times 0.707 = 7.3 \text{ m} \end{aligned}$$



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6. Show with drawing the difference between Overlap and Onlap.

Overlap is used only for Transgressive strata over Regressive strata that means all transgressive strata overlap all regressive strata while Onlap is used only for strata of Transgression Stage ex. H onlaps G and G onlap F



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Name:

Good luck

Degree:

Group:

Dr. Ali Ashoor