



SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
An Autonomous Institution



Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF CIVIL ENGINEERING

19GET102- BASIC CIVIL AND MECHANICAL ENGINEERING

I YEAR I SEM

UNIT 1 – CIVIL ENGINEERING MATERIALS AND SURVEYING

Topic : TYPES OF SURVEYING

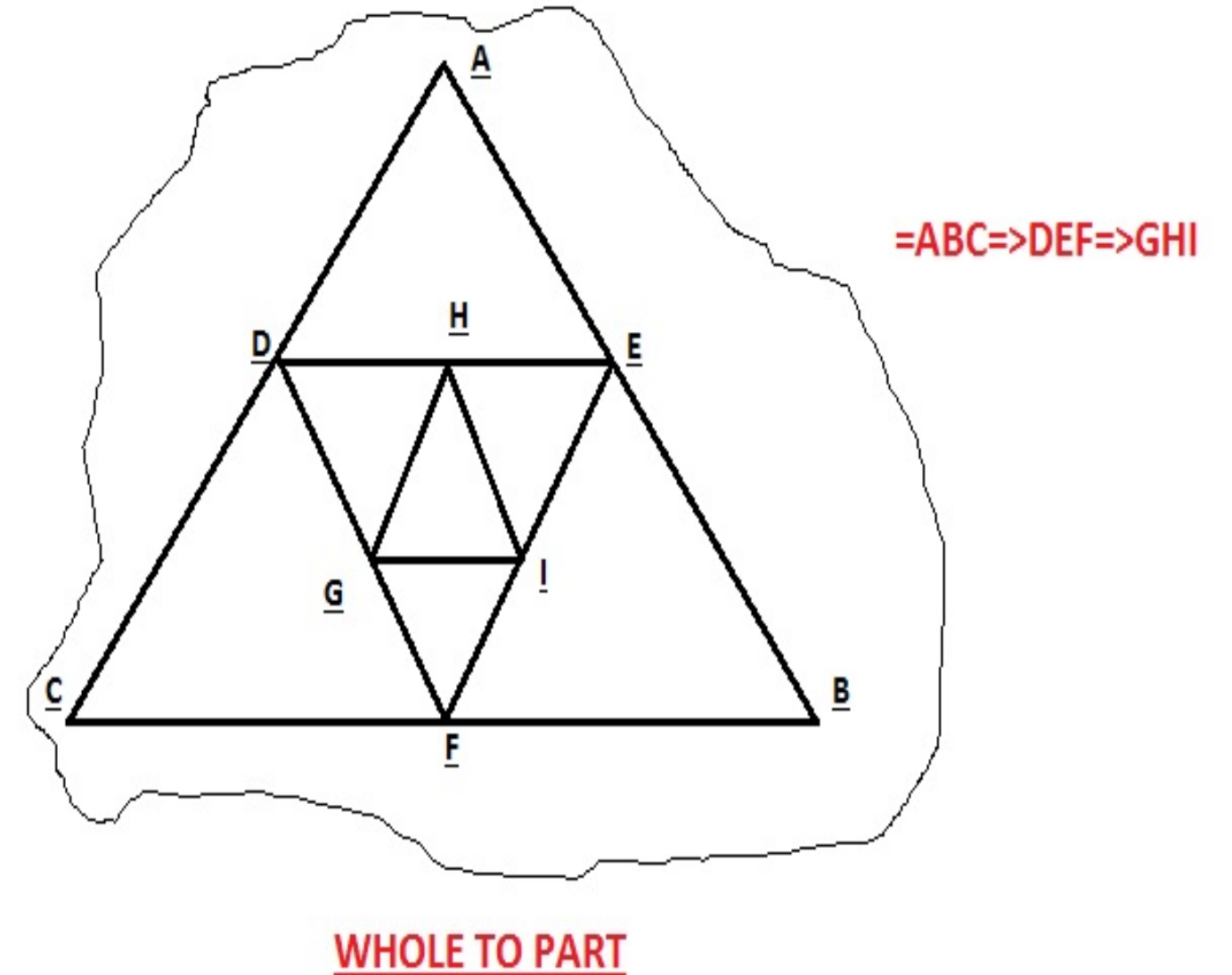




PRINCIPLES OF SURVEYING



- ❖ To work from the **whole to the part**.
- ❖ To locate a new station by **at least two measurement** (linear or angular) from fixed reference points.





CLASSIFICATION OF SURVEYING



A. Primary classification

1. Plane surveying

2. Geodetic surveying

B. Secondary classification

1. Based on instruments

a) Chain surveying

b) Compass surveying

c) Plane table surveying

d) Theodolite surveying

e) Tachometric

f) Photographic surveying

2. Based on methods

a) Triangulation surveying

b) Traverse surveying

3. Based on object

a) Geological surveying

b) Mine surveying,

c) Archaeological surveying

d) Military surveying

4) Based on nature of field

a) Land surveying

i) Topographical surveying

ii) Cadastral surveying

iii) City surveying

iv) Engineering surveying

b) Marine surveying

c) Astronomical surveying



QUESTIONS TIME-COMPANY AND CHIEF EXECUTIVE OFFICER

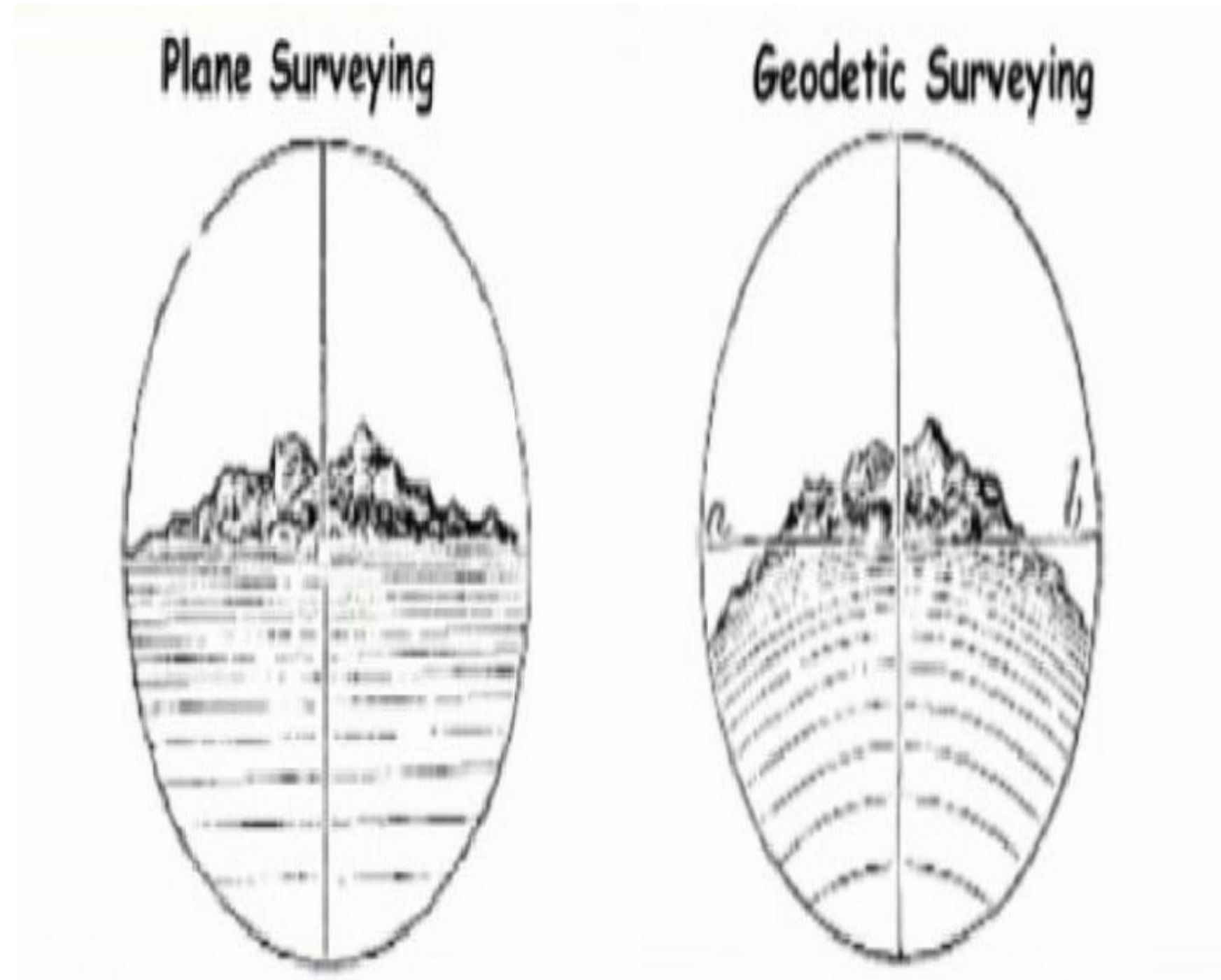



1.HCL	Salil Parekh
2.TCS	Julie sweet
3.Infosy	C Vijaykumar
4. Accenture	SN Subrahmanyam
5.L&T	Rajesh Gopinathan

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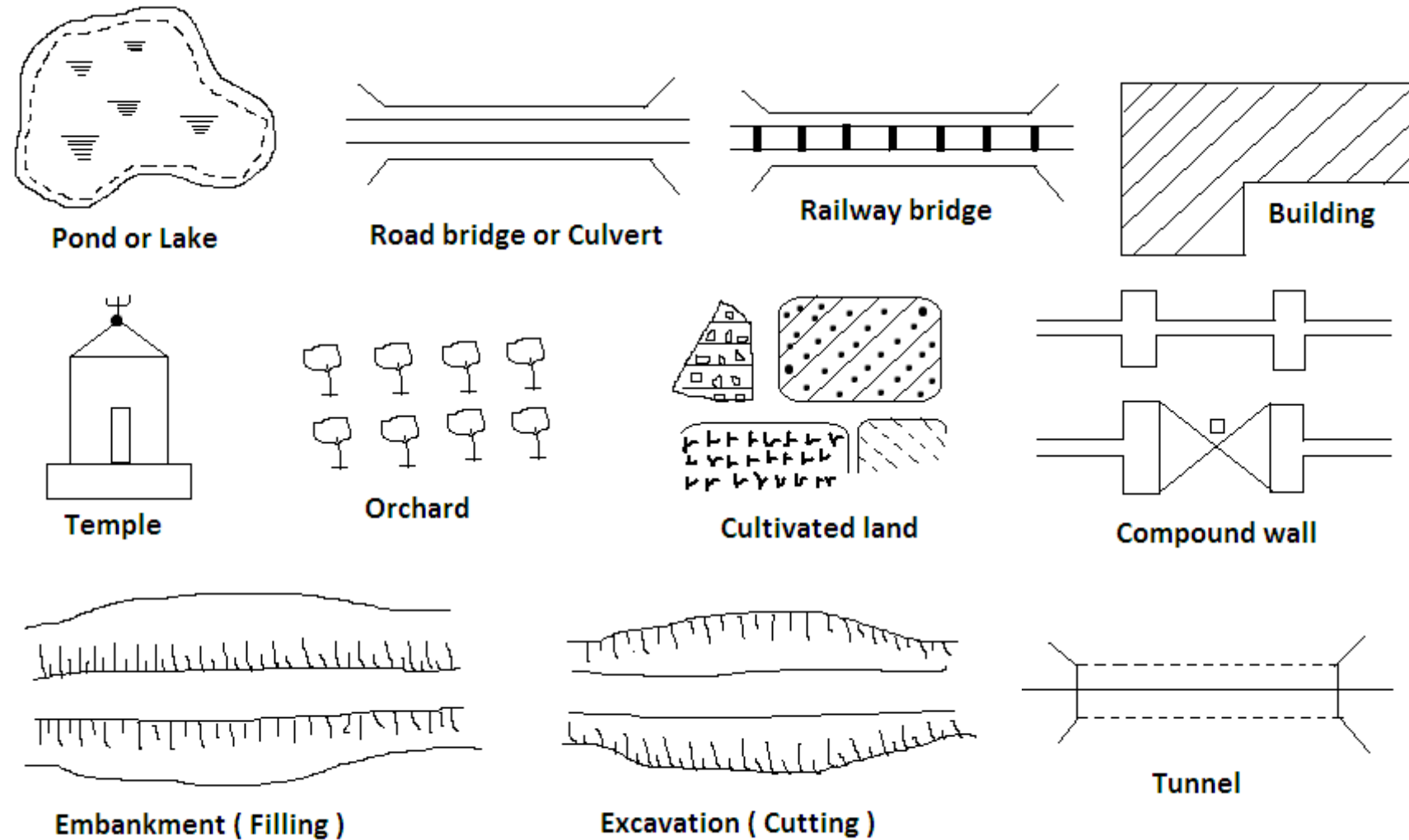
DIFFERENCE BETWEEN PLANE SURVEYING & GEODETIC SURVEYING



Plane surveying	Geodetic surveying
1. The effect of curvature of earth is not considered.	1. The effect of curvature of earth is considered.
2. The surface of the earth is taken as plane.	2. It involves spherical trigonometry. So it is called trigonometrical survey.
3. The area to be surveyed less than 250 km ²	3. The area to be surveyed more than 250 km ²
4. The degree of accuracy is low.	4. The degree of accuracy is high.
5. Plane surveying is conducted by state agencies like Irrigation department, Railway department.	5. Geodetic surveying is conducted by Survey of India (GTS) department.
6. _____	6. 



CONVENTIONAL SYMBOL



Geological Conventions.

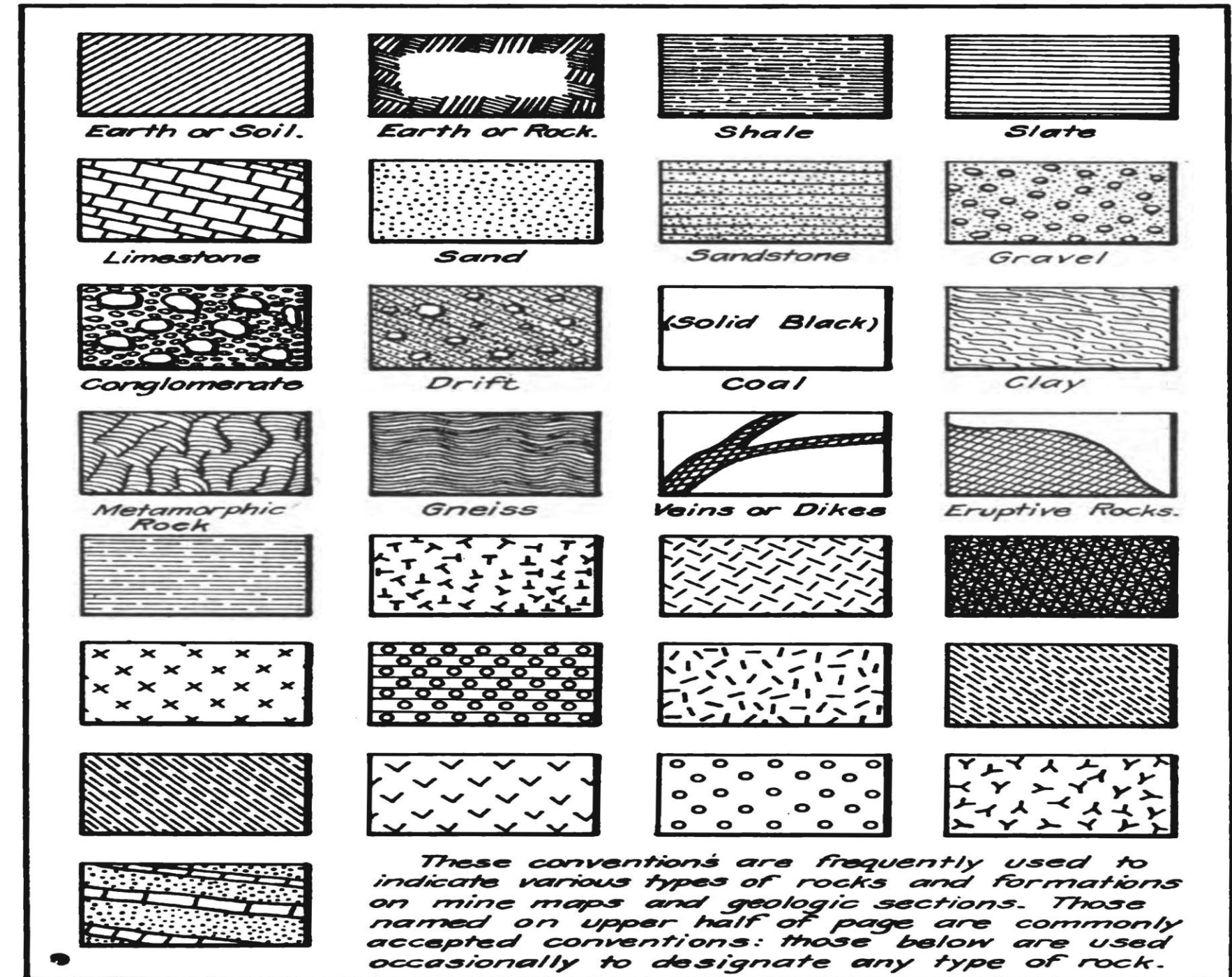


PLATE 4



QUESTIONS TIME-PUZZLES TIME



F	L	N	I	A	H	C	O	N	P	G	W
X	T	Y	U	G	A	V	K	D	N	F	X
X	K	Z	L	A	R	T	S	A	D	A	C
O	I	K	B	H	O	E	V	X	Y	Z	K
R	U	E	S	L	J	X	V	Q	S	J	Q
M	Q	U	N	T	W	I	J	F	U	P	S
N	R	U	I	A	H	R	G	T	B	E	S
U	D	R	J	H	L	R	O	T	J	C	A
T	G	Q	G	K	W	P	H	E	L	N	P
O	Y	Q	G	E	O	D	E	T	I	C	M
T	A	C	H	O	M	E	T	R	I	C	O
L	Y	Q	G	W	G	K	J	G	Y	M	C

F	L	N	I	A	H	C	O	N	P	G	W
X	T	Y	U	G	A	V	K	D	N	F	X
X	K	Z	L	A	R	T	S	A	D	A	C
O	I	K	B	H	O	E	V	X	Y	Z	K
R	U	E	S	L	J	X	V	Q	S	J	Q
M	Q	U	N	T	W	I	J	F	U	P	S
N	R	U	I	A	H	R	G	T	B	E	S
U	D	R	J	H	L	R	O	T	J	C	A
T	G	Q	G	K	W	P	H	E	L	N	P
O	Y	Q	G	E	O	D	E	T	I	C	M
T	A	C	H	O	M	E	T	R	I	C	O
L	Y	Q	G	W	G	K	J	G	Y	M	C



QUESTIONS TIME-PUZZLES TIME



THANK YOU