

AR – 611

Sixth Semester B. Sc. (Part – III) Examination

GEOLOGY – 6S

P. Pages : 5

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) All questions are compulsory.
(2) Draw well labelled diagram wherever necessary.

1. (A) Fill in the blanks :—

- (i) The total displacement measured along the fault plane is called the _____
- (ii) The aerial photographs taken with the axis of camera in vertical position are known as _____.
- (iii) In Oil and Gas exploration _____ method of prospecting is used.
- (iv) If the strain in different parts of the body is unequal the strain is said to be _____ strain. 2

(B) Choose correct alternatives :—

- (i) The vertical component of displacement in faulting is termed as _____
 - (a) Throw
 - (b) Heave
 - (c) Fault plane

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OR

Describe the different types of strain and rock deformations in detail. Add a note on behaviour of rock with the depth. 12

3. Describe the following :—

- (a) Geometrical classification of faults.
- (b) Lineation and it's origin.
- (c) Causes of faulting.

OR

- (p) Foliation and it's kinds.
- (q) Evidences of faulting.
- (r) Horst and Graben. 12

4. Give an account of the following :—

- (a) Photo Mosaic and stereopair.
- (b) Construction of pocket stereoscope.
- (c) Corrections in Aerial photos.

OR

- (p) High oblique and low oblique photos.
- (q) Principle of Mirror Stereoscope.
- (r) Remote Sensing. 12

5. Describe the following :—

- (a) Scale of Aerial Photographs.
- (b) Shape and size of objects in photo recognition.
- (c) Application of Remote Sensing.

OR

- (p) Patterns in Aerial photographs.
- (q) Tone and Texture.
- (r) Guidelines for Lithological interpretation. 12

6. What is prospecting ? Describe the various criteria and guides to Ore search.

OR

Define Sampling. Describe the different types of sampling in detail. 12

7. Give an account of the following :—

- (a) **Seismic Method.**
- (b) **Resistivity Method.**
- (c) **Geobotanical Prospecting.**

OR

- (p) **Gravity Method.**
- (q) **Magnetic Method.**
- (r) **Geochemical Cycle.**

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