



QP CODE: 24000655



24000655

Reg No :

Name :

B.Sc DEGREE (CBCS) REGULAR / REAPPEARANCE EXAMINATIONS, MARCH 2024

Sixth Semester

CORE COURSE - GL6CRT09 - STRUCTURAL GEOLOGY

Common for B.Sc Geology Model I & B.Sc Geology and Water Management Model III

2017 Admission Onwards

B2D63FC6

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Explain the attitude of linear features.
2. Explain Offlap.
3. What does mean by primary and secondary structures?
4. What are the different stages of rock deformation?
5. Explain stereographic projection in the Structural Geology.
6. Distinguish antiformal anticline and antiformal syncline.
7. Draw erosional patterns of dome and basin with relative ages of rock beds, exposed on a levelled ground.
8. List out any four important geometric parameters of a fault.
9. Define gravity and thrust faults.
10. Define Schistosity.
11. List out any two type of geological maps.
12. Give any two uses of Brunton Compass for geological field work.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Write a short note on various secondary sedimentary structures, and their significance in the determination of top of the beds.





14. What is an unconformity and explain their types?
15. What are the stress & strain ellipsoids? Explain their geometric features.
16. Explain use of axis and axial plane in the classification of folds.
17. Explain the drag folds and Pumpelly's rule, and discuss their geological significance.
18. Discuss any five systems of faults in details.
19. Discuss relationship between foliations and rocks with folded rock layers.
20. Define Tectonites, and discuss their types.
21. Give a brief account of nature and origin of joints.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Give an account of various type of unconformities, their formation, recognition in the field and geological significance.
23. Illustrate various mechanisms of folding, and genetical classification of folds.
24. Give an account of fundamental mechanisms of faulting with respect to stress-strain regime, and criteria for the recognition of faults in the field.
25. Give a detailed account of classification and geological significance of joints.

(2×10=20)

