

Deformation and Metamorphism

Exam 1 Answers

1. b 2. a 3. b 4. c 5. a 6. c 7. a 8. b 9. a 10. a 11. b	27. e 28. c 29. b 30. b 31. d 32. e 33. a 34. d 35. c
12. c 13. a 14. b 15. b 16. b 17. d 18. e 19. d 20. a	36. e 37. d 38. d 39. a 40. e 41. a 42. e 43. b 44. a
21. c 22. c 23. d 24. e 25. c 26. c	45. e 46. d 47. a 48. c 49. b 50. a 51. c 52. b

Making Metamorphic Rocks

Strength of Rock

- Too much stress = failure
- more heat means more ductile

How rocks responds to force and stress

- small amount of stress → block remains unchanged
- compression, shear, tension
- shallow levels: rocks fracture
 - earthquakes
- deeper levels: rock flows

Types of Fractures

- joint: small
 - burial
 - cooling and contraction
 - unloading
- fault: big (rocks have slipped past one another)
 - left lateral: block on opposite side moves to left

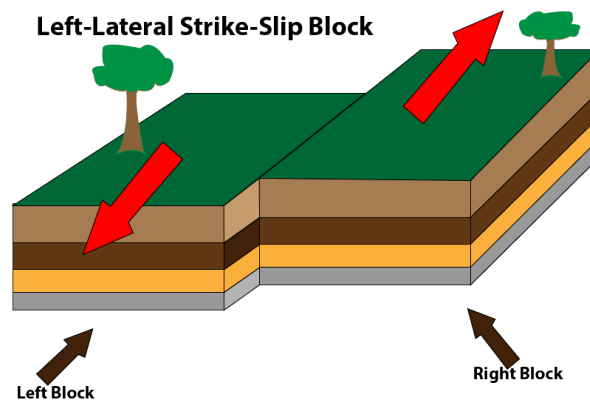


Figure 1: Left lateral

- right lateral: block on opposite side moves to right

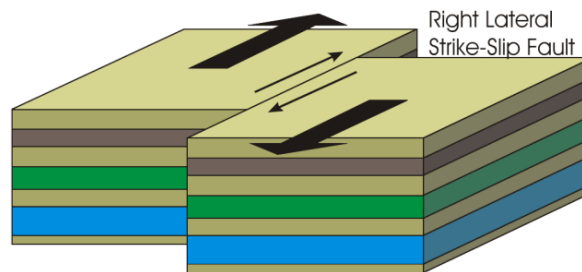


Figure 2: Right lateral

- anticline: up
- syncline: down