

SUBJECT CODE: 37
MODEL QUESTION PAPER 1
FOR REDUCED SYLLABUS 2020-21

Subject: GEOLOGY

PUC- II

Hours: 3 hrs 15 min

Maximum Marks: 100

Note:

- All the parts are compulsory
- Draw diagrams wherever necessary
- Write the question numbers properly

PART - A

- I. Answer **All** the following questions. (10 X 1 = 10)
1. What is Petrology?
 2. Define Dyke?
 3. What is Acidic lava?
 4. Define bedding plane
 5. What is lithification?
 6. What is True dip?
 7. Define Strike.
 8. Define fossil.
 9. Give an example of plant fossil.
 10. What is Spire?

PART B

- II. ANSWER **ANY FIVE** OF THE FOLLOWING QUESTIONS. (5 X 2 = 10)
11. What are metamorphic rock?
 12. What is hypabyssal rock?
 13. Name the agents of metamorphism
 14. What are Attitude of beds?
 15. Define Footwall.
 16. What is stratigraphy?
 17. Define fossil.
 18. What is Calyx?

PART- C

- III. ANSWER **ANY FIVE** OF THE FOLLOWING QUESTIONS. (5 X 3 = 15)
19. What is extrusive form of Igneous rocks.
 20. Describe Pillow structure.
 21. Describe conglomerate.
 22. What are chemically active fluids?
 23. With neat labeled diagram define fold.
 24. What are two kinds of Dips?
 25. Define Law of order of superposition.
 26. Define Petrification

PART D

- IV. ANSWER **ANY TWO** OF THE FOLLOWING (2 X 5 = 10)
27. With neat labeled diagram describe Pillow
 28. Describe process of formation of sedimentary rocks.
 29. Describe Agents of metamorphism.

- V. ANSWER **ANY TWO** OF THE FOLLOWING (2 X 5 = 10)
30. Importance of geological structure.
 31. Describe geological time scale.
 32. Describe general morphology of Calceola.

- VI. ANSWER **ANY THREE** OF THE FOLLOWING (3 X 5 = 15)
33. Describe Volcanic igneous rocks.
 34. Describe zones of metamorphism.
 35. Describe normal and reverse fault.
 36. Describe salient feature of Paleozoic era.
 37. Describe conditions of preservation of fossils.

PART - E

- VII. ANSWER **ALL** THE FOLLOWING (6 X 5 = 30)
38. Describe following structures in igneous rocks
 - a. Columnar structure
 - b. Amygdaloidal structure
 39. Describe Anticline and Syncline fold
Or
Describe Symmetrical and Asymmetrical
 40. Forms of igneous rock.

Or

Process of formation of sedimentary rock

41. Describe types of fossilization.

42. With neat labeled diagram describe morphological features of Ptilophylum.

43. With neat labeled diagram describe morphological features of Fusus.

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PART - A

I. ANSWER **ALL** THE FOLLOWING QUESTIONS. (10 X 1 = 10)

1. What is sedimentary rock?
2. Define Sill.
3. What is Basic lava
4. What is diagenesis?
5. What is clastic rock?
6. What is Step fault?
7. Define Fold
8. What is Aperture?
9. What is Body whorl?
10. What is Ptillophylum?

PART B

II. ANSWER **ANY FIVE** OF THE FOLLOWING QUESTIONS. (5 X 2 = 10)

11. Define igneous rocks.
12. What is discordant form of igneous rocks?
13. Give example for the rocks formed in the Epizone.

14. What is Hanging wall
15. Define conformity?
16. What is pre-Cambrian eon?
17. Mummification
18. Index fossil.

PART- C

III. ANSWER **ANY FIVE** OF THE FOLLOWING QUESTIONS. (5 X 3 = 15)

19. Describe Plutonic igneous rocks
20. Write composition of magma.
21. Describe Denudation process in sedimentary rock formation.
22. Define metamorphism with example.
23. Describe Hinge and Limbs of the fold
24. Write uses of Brunton compass.
25. Unconformable beds.
26. Define Mold and caste.

PART D

IV. ANSWER **ANY TWO** OF THE FOLLOWING (2 X 5 = 10)

27. Uses of igneous rocks.
28. Describe Mechanical and Biological weathering
29. Zones of metamorphism

V. ANSWER **ANY TWO** OF THE FOLLOWING (2 X 5 = 10)

30. Describe parts of fault.
31. Describe Proterozoic era
32. Write general morphology of Fusus

VI. ANSWER **ANY THREE** OF THE FOLLOWING (3 X 5 = 15)

33. With neat labeled diagram Describe Cross Stratification.

34. Describe process of metamorphism and give examples.
35. With neat labeled diagram describe Anticline and Syncline folds
36. Describe salient feature of Archaean era.
37. Write uses of fossil.

PART - E

VII. ANSWER ALL THE FOLLOWING (6 X 5 = 30)

38. Describe following rocks
 - a. Pumice
 - b. Granite
39. Describe Types of faults

Or

With neat labeled diagram Describe ripple marks.
40. Write Classification of Igneous rock

Or

Describe clastic and non-clastic sedimentary rock.
41. Significance of fossils.
42. With neat labeled diagram describe morphological features of Calceola.
43. With neat labeled diagram describe morphological features of Glossopteris.