

**PUC II**  
**GEOLOGY (37)**

**Blueprint for model question paper 2022-23**

Unit	Chapter	Topic	Marks Allotted	1 Marks (VSA)	2 Marks (SA1)	3 Marks (SA2)	5 Marks (LA)
1	1	Introduction of Petrology	2	++			
	2	Igneous rocks	21	+++	+	++	++
	3	Sedimentary rocks	16	+++		+	++
	4	Metamorphic rocks	8	+	+		+
2	5	Structural Geology	22	++	++	++	++
3	6	Stratigraphy	15	+++++	+	+	+
4	7	Paleontology	16	++++	++	+	++
5	8	<b>Practical</b>	<b>30</b>				
		<b>Total</b>	<b>130</b>	<b>20</b>	<b>14</b>	<b>21</b>	<b>45</b>

**PUC II**  
**MODEL QUESTION PAPER**

**Subject: GEOLOGY (37)**

**Hours: 3 hrs 15 min**

**Maximum Marks: 70+30**

Note:

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

**PART - A**

**I. ANSWER ALL OF THE FOLLOWING QUESTIONS. (5 X 1 = 5)**

1. The block above the fault is called\_\_\_\_\_
  - a. Foot wall
  - b. Hanging wall
  - c. Fault plane
  - d. None of all
2. The angle of inclination of fold axis with reference to horizontal plane is called\_\_\_\_\_
  - a. Plunge
  - b. Crest
  - c. Limb
  - d. Hinge
3. \_\_\_\_\_ is the process where entire body is preserve.
  - a. Carbonization
  - b. Petrification
  - c. Molds
  - d. Mummification
4. The base of coral is depressed and this depression is called as\_\_\_\_\_
  - a. Calyx
  - b. Theca
  - c. Apex
  - d. Operculum
5. Time unit measure in terms of hundreds of millions of years is called\_\_\_\_\_
  - a. Period
  - b. Era
  - c. Epoch
  - d. Age

**II. ANSWER ALL OF THE FOLLOWING QUESTIONS. (5 X 1 = 5)**

6. \_\_\_\_\_ is the time range of Cambrian period.
7. \_\_\_\_\_ are preserved remains or traces of organisms of geological past.
8. Branch of geology which deals with study of rocks is called\_\_\_\_\_.
9. \_\_\_\_\_ is the break in the stratigraphic sequence.
10. Triassic is the period of \_\_\_\_\_ era.

**III. ANSWER ALL OF THE FOLLOWING QUESTIONS. (5 X 1 = 5)**

11. Define rock.
12. Define Sill.
13. What is basic Lava?
14. What is stratification?
15. What is non-clastic rock?

**IV. MATCH THE FOLLOWING (5 X 1 = 5)**

- |               |                     |
|---------------|---------------------|
| 16. Trilobite | a. Igneous rock     |
| 17. Dolerite  | b. Era              |
| 18. Mesozoic  | c. Limestone        |
| 19. Quartzite | d. Fossil           |
| 20. Oolitic   | e. Metamorphic rock |

**PART-B**

**V. ANSWER ANY FOUR OF THE FOLLOWING QUESTIONS. (4 X 2 = 8)**

21. What are metamorphic rocks?
22. What is concordant form of igneous rocks?
23. What is foot wall?
24. Name the principles of stratigraphy.
25. What is graben fault?
26. What is petrification?
27. Define index fossil.

**PART- C**

**VII. ANSWER ANY FOUR OF THE FOLLOWING QUESTIONS. (4 X 3 = 12)**

28. Explain volcanic igneous rocks.
29. Write composition of magma.
30. What is clastic sedimentary rock, give example?
31. Describe Hinge and Limbs of the fold.
32. Write uses of Brunton compass.
33. Explain uniformitarianism.
34. Define mold and caste

**PART-D**

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

- 35. Describe equigranular textures in igneous rock.
- 36. Explain classification of sedimentary rocks based on grain size.
- 37. Describe agents of metamorphism.

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

- 38. Describe parts of fault.
- 39. Write general morphology of Calceola.
- 40. Describe types of unconformity.

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

- 41. Explain the classification of igneous rocks based on mode of occurrence.
- 42. Describe archeans of karnataka.
- 43. Explain the classification of sedimentary rocks based on origin.

**PART – E**

**(Practical Part)**

**XI. ANSWER ALL OF THE FOLLOWING** **(6 X 5 = 30)**

- 44. Describe following rocks.
  - a. Basalt
  - b. Sandstone

45. Describe ripple marks in sedimentary rocks.

Or

With neat labeled diagram describe columnar structure.

- 46. With neat labeled diagram describe schistose structure in metamorphic rock.
- 47. With neat labeled diagram describe Vesicular and Amygdaloidal structure.
- 48. Sketch and label the following fossils.
  - a. Fuses
  - b. Glossopteris
- 49. With neat labeled diagram describe morphological features of Paradoxide.

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