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FOR KARNATAKA CLASS 12 PREPARATION

Karnataka 2nd PUC Model Question Paper 2027 for Geology (Paper 4)

EXAM	YEAR	TYPE	SUBJECT
Karnataka Class 12	2027	Sample Paper	Geology

GOVERNMENT OF KARNATAKA

KARNATAKA SCHOOL EXAMINATION AND ASSESSMENT BOARD

MODEL QUESTION PAPER - 04 2026-27

GEOLOGY (37)

Duration: 3.00 hour **Max. Marks: 80**

Instructions:

1. *All parts are compulsory.*
2. *Draw neat labelled diagrams wherever necessary.*
3. *Write correct question numbers.*
4. *For part A questions only first written answers will be considered for evaluation.*

Part A

I. Answer all of the following questions. (5X1=5)

1. Choose the following Which of the plants were dominant during Mesozoic era.

   a. Conifers c. Oak

   b. Orchids d. Mosses

2. How igneous rocks are formed?

   a. Cooling and solidification of magma c. Cementation of sediments

   b. Evaporation of mineral rich water d. Compaction of minerals

3. Which of the following is an example of an argillaceous sedimentary rock?

   a. Conglomerate c. Breccia

   b. Sandstone d. Shale

4. The presence of a younger rock overlying an older igneous rock is known as:

   a. Non-conformity c. Disconformity

   b. Angular unconformity d. Paraconformity

5. What type of pressure leads to a change in volume during metamorphism?

   a. Directed pressure c. Uniform pressure

   b. Atmospheric pressure d. Dynamic pressure

II. Fill in the blanks (5X1=5)

(Gondwana. aragonite. Middle Cambrian, Anticline, Pahoehoe, Lurasia)

6. In _____ the limbs dip away from the axial plane.
7. Ropy structure and it is also known _____as structure.
8. Pangaea gradually split into a southern continent named _____.
9. In gastropod, shell consists of a calcareous layer usually known as_____
10. **Paradoxides**, representing _____ age.

III. Match the following. (5X1=5)

11.

	A		**B**
i.	Primary	a.	Rock Granite
ii.	Shale	b.	< 0.01 mm
iii.	$CaCO_3$	c.	Marble
iv.	Limb	d.	Fold
v.	Ice age	e.	Cenozoic
		f.	Sandstone

IV. Answer all of the following questions. (5X1=5)

12. What is rock cycle?
13. Define sill.
14. What is footwall?
15. Define inlier outcrop
16. Mention the age of calceola.

PART-B

V. Answer any Seven of the following (7X2=14)

17. What is secondary rock? Give example.
18. Write the characters of basic lava.
19. List the concordant forms of igneous rocks.
20. What is merocrystalline texture?
21. How sediments are transported to form sedimentary rocks?
22. What is exogenetic rocks?
23. What are chemically active fluids?
24. Write the properties of charnockite.
25. Write name of eras in geological time scale.
26. How faults are different from joints?

27. What are track and trails?

VI. Answer any seven questions from the following. (7X3=21)

28. Draw neat labelled diagram showing parts of fault.
29. Write a note on disconformity.
30. Write uses of Brunton compass.
31. Write occurrence and distribution of Archeans.
32. Write a note on Non metallic deposits of archeans
33. Write composition of magma.
34. Write a note on significance of rocks.
35. Write physical properties of Slate.
36. Write the process of formation of sedimentary rocks.
37. Write a note on septas on coral.
38. Write morphology of Fusus.

VII. Answer any five questions from the following. (5X5=25)

39. Describe types of joints.
40. Explain importance of geological structure.
41. Prepare chat of B. Rama Rao classification of archeans
42. Discuss granularity in textures of igneous rocks.
43. Explain properties of pegmatite and dolerite.
44. With neat labelled diagram explain schistose structure. Give example.
45. Draw chart showing distribution of Trilobite.
46. With neat labelled diagram explain distribution of gastropods.
47. Describe head in trilobite.
