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FOR KARNATAKA CLASS 11 PREPARATION

Karnataka 1st PUC Model Question Paper 2027 for Geology (Paper 2)

EXAM	YEAR	TYPE	SUBJECT
Karnataka Class 11	2027	Sample Paper	Geology

GOVERNMENT OF KARNATAKA

DEPARTMENT OF SCHOOL EDUCATION (PRE-UNIVERSITY)

MODEL QUESTION PAPER : SET 2: 2026-27

PUC- I

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 **(1X5=5)**

1. Which branch of Geology deals with the study of cosmic bodies such as planets, comets, meteorites and stars?

   a) Planetary Geology b) Economic Geology c) Paleontology d) Hydrogeology

2. Which group of planets consists of Mercury, Venus, Earth and Mars?

   a) Outer group b) Inner group c) Giant group d) Dwarf group

3. What is the mean density of the Earth given in the textbook?

   a) 5.517 gm/cm3 b) 4.517 gm/cm3 c) 6.517 gm/cm3 d) 3.517 gm/cm3

4. Which of the following is an erosional feature produced by wind?

   a) Pedestal rock b) Delta c) Cirque d) Drumlin

5. Pollution is the contamination of matter which exceeds the _____ limit.

   a) permissible b) normal c) annual d) seasonal

II. Fill in the blanks **(1X5=5)**

6. Geo means _____ and logos means science.
7. Mercury, Venus, Earth and Mars form the _____ group of planets.
8. The mean density of the Earth is _____ gm/cm3.
9. Weathering is the natural process of _____ and decomposition of rocks.

10. Minerals are naturally occurring _____ substances having definite chemical composition and atomic structure.

III. Match the following **(1X5=5)**

11.

A	**B**
a. Milky Way	i. A shape of the Earth
b. Geoidal	ii. The name of our Galaxy
c. Troposphere	iii. A type of glacier deposit
d. Drumlin	iv. Established in 1851
e. GSI	v. The lower part of the atmosphere

IV. Answer all of the following **(1X5=5)**

12. What is Geophysics?
13. What is Saltation?
14. What are Moraines?
15. What is a prism of a crystal?
16. What is air pollution?

PART B

V. Answer any seven of the **(2X7=14)**

17. What is Physical Geology?
18. What are Meteorites?
19. What are Comets?
20. What are the different views or opinions about the shape of the Earth?
21. What is Rotation?
22. What is Revolution?
23. Mention the causes for earthquakes.
24. What is Moho's Scale of hardness?
25. Define interfacial angle.
26. What are crystallographic axes?
27. What is pollution?

VI. Answer any seven of the following **(3X7=21)**

28. What is weathering? Name its three types.

29. Explain frost action, action of gravity and temperature change as physical/mechanical weathering processes.

30. Explain deflation, abrasion and attrition in wind erosion.

31. Explain the geological work of a river under erosion, transportation and deposition.

32. Describe the three types of glaciers given in the textbook.

33. What are moraines? Name their types.

34. What are P and S waves? State their nature as described in the textbook.

35. Explain the classification of earthquakes based on depth of focus.

36. Give the scientific classification of minerals.

37. State Euler's law for crystals.

38. Explain the three types of symmetry.

VII. Answer any Five of the following **(5X5=25)**

39. Explain the rotation and revolution of the Earth and their effects, namely day and night and seasons.

40. Explain the properties of the atmosphere.

41. Explain the hydrological cycle with a neat diagram.

42. Explain the internal structure of the Earth with a neat sketch.

43. What is weathering? Explain the types of weathering.

44. Describe the geological action of glaciers.

45. Explain seismograph and seismogram.

46. Explain the types of volcanoes.

47. Explain the physical properties of minerals.
