

No. of Pages. 16

Code No.

Y – 3073

Register Number :

Time : 2 Hours

Name :

Max.Marks : 100

**Entrance Examination for Admission to Four Year Under Graduate
Programmes in the Teaching Departments, 2026**

CSS

GEOLOGY

GENERAL INSTRUCTIONS

1. The Question Paper is having 100 Objective Questions, each carrying one mark.
2. The answers are to be marked **only** in the “**OMR Sheet**” provided.
3. **Negative marking : 0.25 marks** will be deducted for each wrong answer .

INSTRUCTIONS FOR FILLING THE OMR SHEET

- The OMR sheet should not be folded or crushed.
- Use only blue/black ball point pen to fill the circles.
- Use of pencil is strictly prohibited.
- Circles should be darkened completely and properly.
- Cutting and erasing on this sheet is not allowed.
- Do not leave any stray marks on the sheet.
- Do not use marker or white fluid to hide the mark.

• **WRONG METHODS**



CORRECT METHOD



DO NOT WRITE HERE

Choose appropriate answer from the options in the questions.

(100 × 1 = 100 marks)

1. What is structural geology primarily concerned with?
 - A. Fossil formation
 - B. Rock deformation and structures
 - C. Volcanic eruptions
 - D. Sediment composition

2. A metamorphic rock formed from limestone
 - A. Marble
 - B. Granite
 - C. Charnockite
 - D. Calcite

3. The fan-shaped deposit is formed when a river or flash flood slows down and rapidly dumps its sediment load.
 - A. Alluvial Fan
 - B. Piedmont Plane
 - C. Abyssal Plain
 - D. Plateau

4. Petroleum is primarily formed from the remains of:
 - A. Terrestrial plants
 - B. Dinosaurs
 - C. Marine microorganisms
 - D. Volcanic ash

5. Which of the following is a major element in the Earth's crust?
 - A. Gold (Au)
 - B. Silicon (Si)
 - C. Uranium (U)
 - D. Mercury (Hg)

6. The study of fossilised footprints and burrows is known as:
 - A. Taphonomy
 - B. Ichnology
 - C. Palaeobotany
 - D. Biostratigraphy

7. Which of the following is *not* a part of the continental margin?
 - A. Continental shelf
 - B. Continental slope
 - C. Continental rise
 - D. Mid-ocean ridge

8. Which of the following is considered the earliest known ancestor of modern humans?
 - A. Homo erectus
 - B. Australopithecus
 - C. Neanderthal
 - D. Cro-Magnon

9. The process of physical weathering of rocks due to alternating freezing and thawing of water
 - A. Ice breaking
 - B. Frost Wedging
 - C. Avalanche
 - D. Exfoliation

10. The 'Grand Canyon' is developed in
 - A. Mississippi River
 - B. Amazon River
 - C. Colorado River
 - D. Nile River

11. The landform formed by the deposition of sediments at the mouth of a river?
 - A. Fjord
 - B. Bajada
 - C. Alluvial fan
 - D. Delta

21. A mineral which crystallises in the cubic crystal system
- A. Quartz
 - B. Diamond
 - C. Calcite
 - D. Mica
22. The property of a rock that allows water to pass through is called _____
- A. Porosity
 - B. Permeability
 - C. Specific yield
 - D. Transmissivity
23. Which of the following types of coal has the highest carbon content and energy value?
- A. Lignite
 - B. Bituminous
 - C. Anthracite
 - D. Peat
24. Which rock type typically serves as a good reservoir for petroleum?
- A. Shale
 - B. Granite
 - C. Limestone
 - D. Sandstone
25. Which of the following elements is a siderophile (iron-loving)?
- A. Calcium (Ca)
 - B. Nickel (Ni)
 - C. Aluminium (Al)
 - D. Potassium (K)
26. Which of the following is considered the oldest known group of fossil animals?
- A. Trilobites
 - B. Brachiopods
 - C. Ediacaran fauna
 - D. Ammonites
27. Which of the following is considered one of the earliest ancestors of modern elephants?
- A. Moeritherium
 - B. Mammuthus
 - C. Loxodonta
 - D. Stegodon
28. Common sand deposits found in deserts
- A. Dunes
 - B. Ventifacts
 - C. Yardangs
 - D. Deltas

29. Father of Geology
- A. N.L. Bowen
 - B. Nicolas Steno
 - C. Harry Hess
 - D. James Hutton
30. Exfoliation is related to:
- A. Metamorphism
 - B. Weathering
 - C. Magmatism
 - D. Carbonation
31. In the process of erosion, the removal of materials by solution is called
- A. Abrasion
 - B. Corrosion
 - C. Attrition
 - D. Sublimation
32. Which of the following landforms is shaped by the divergence of oceanic plates
- A. Rift Valley
 - B. Mid-Ocean Ridge
 - C. Ocean trench
 - D. Transform fault
33. Lowest layer of atmosphere
- A. Stratosphere
 - B. Troposphere
 - C. Ionosphere
 - D. Thermosphere
34. What are the solid particles spewed from a volcano called?
- A. Lava
 - B. Magma
 - C. Tephra
 - D. All of the above
35. The equipment used for measuring atmospheric humidity
- A. Anemometer
 - B. Psychrometer
 - C. Hygrometer
 - D. Lysimeter
36. What branch of geology primarily focuses on the study of rocks, their types, origin and occurrence?
- A. Petrology
 - B. Mineralogy
 - C. Rock mechanics
 - D. Stratigraphy

70. Which of the following is a microfossil commonly used in paleoenvironmental studies?
- A. Foraminifera B. Trilobite
C. Graptolite D. Ammonite
71. The continental shelf is generally:
- A. Steep and deep B. Narrow and rocky
C. Shallow and gently sloping D. Covered with volcanic rocks
72. Meandering of rivers is indicative of _____.
- A. Mature stage B. Old age
C. Youth stage D. Rejuvenation
73. Rocks with flat wind-abraded surfaces are called _____.
- A. Sandstone B. Ventifact
C. Yardang D. Butte
74. The principle of Uniformitarianism was proposed by
- A. Alfred Wegner B. Nicolas Steno
C. Harry Hess D. James Hutton
75. The theory of "isostasy" was proposed by:
- A. Wegner B. Hutton
C. Airy D. Holmes
76. Which geological era is known as the 'Age of Reptiles'?
- A. Palaeozoic B. Mesozoic
C. Cenozoic D. Precambrian
77. What kind of stress causes a normal fault?
- A. Compressional stress B. Shear stress
C. Tensional stress D. Torsional stress

86. What are Stromatolites?
- Mineral formations in igneous rocks
 - Sedimentary structure created by microorganisms
 - Metamorphic textural assemblages
 - Accumulation of organic material in rocks
87. An igneous intrusion whose are parallel to the bedding of the enclosing rock:
- Sill
 - Dyke
 - Batholith
 - Xenolith
88. The term *outwash plain* is associated with _____.
- Underground water
 - Glacier
 - Wind action
 - Running water
89. Igneous rock texture, in which a large mineral grain is surrounded by small grains:
- Equigranular
 - Poikilitic
 - Porphyritic
 - Idiomorphic
90. Which of the following is a depositional glacial landform
- Drumlin
 - Cirque
 - Arête
 - Delta
91. Metamorphosed sandstone
- Kondalite
 - Magnetite
 - Charnockite
 - Quartzite
92. Which of the following formations is considered the oldest in the Gondwana Supergroup?
- Barakar Formation
 - Talchir Formation
 - Raniganj Formation
 - Barren Measures Formation

ROUGH WORK

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