Test Paper : III Test Subject : EARTH SCIENCE Test Subject Code : K-3213	Test Booklet Serial No. : OMR Sheet No. : Roll No(Figures as per admission card)
Name & Signature of Invigilator/s	
Signature:	Signature:
Name :	Name :
Paper : Subject :	III EARTH SCIENCE
Time : 2 Hours 30 Minutes	Maximum Marks: 150
Number of Pages in this Booklet : 8	Number of Questions in this Booklet : 75

ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಸೂಚನೆಗಳು

- 1. ಈ ಪುಟದ ಮೇಲ್ಗುದಿಯಲ್ಲಿ ಒದಗಿಸಿದ ಸ್ಥಳದಲ್ಲಿ ನಿಮ್ಮ ರೋಲ್ ನಂಬರನ್ನು ಬರೆಯಿರಿ.
- ಈ ಪತ್ರಿಕೆಯು ಬಹು ಆಯ್ಕೆ ವಿಧದ ಎಪ್ಪಕ್ಷ್ಯದು ಪ್ರಶ್ನೆಗಳನ್ನು ಒಳಗೊಂಡಿದೆ.
- ಪರೀಕ್ಷೆಯ ಪ್ರಾರಂಭದಲ್ಲಿ, ಪ್ರಶ್ನೆಪುಸ್ತಿಕೆಯನ್ನು ನಿಮಗೆ ನೀಡಲಾಗುವುದು. ಮೊದಲ5 ನಿಮಿಷಗಳಲ್ಲಿ ನೀವು ಪುಸ್ತಿಕೆಯನ್ನು ತೆರೆಯಲು ಮತ್ತು ಕೆಳಗಿನಂತೆ ಕಡ್ಡಾಯವಾಗಿ ಪರೀಕ್ಷಿಸಲು ಕೋರಲಾಗಿದೆ.
 - (i) ಪ್ರಶ್ನೆ ಪುಸ್ತಿಕೆಗೆ ಪ್ರವೇಶಾವಕಾಶ ಪಡೆಯಲು, ಈ ಹೊದಿಕೆ ಪುಟದ ಅಂಚಿನ ಮೇಲಿರುವ ಪೇಪರ್ ಸೀಲನ್ನು ಹರಿಯಿರಿ. ಸ್ಕಿಕ್ಷರ್ ಸೀಲ್ ಇಲ್ಲದ ಪ್ರಶ್ನೆಪುಸ್ತಿಕೆ ಸ್ವೀಕರಿಸಬೇಡಿ. ತೆರೆದ ಪುಸ್ತಿಕೆಯನ್ನು ಸ್ವೀಕರಿಸಬೇಡಿ.
 - (ii) ಪುಸ್ತಿಕೆಯಲ್ಲಿನ ಪ್ರಶ್ನೆಗಳ ಸಂಖ್ಯೆ ಮತ್ತು ಪುಟಗಳ ಸಂಖ್ಯೆಯನ್ನು ಮುಖಪುಟದ ಮೇಲೆ ಮುದ್ರಿಸಿದ ಮಾಹಿತಿಯೊಂದಿಗೆ ತಾಳೆ ನೋಡಿರಿ. ಪುಟಗಳು/ಪ್ರಶೆಗಳು ಕಾಣೆಯಾದ್ರ ಅಥವಾ ದಿಪ್ಪತಿ ಅಥವಾ ಅನುಕ್ರಮವಾಗಿಲ್ಲದ ಅಥವಾ ಇತರ ಯಾವುದೇ ವೃತ್ಯಾಸದ ದೋಷಪೂರಿತ ಪುಸ್ತಿಕೆಯನ್ನು ಕೂಡಲೆ 5 ನಿಮಿಷದ ಅವಧಿ ಒಳಗೆ, ಸಂವೀಕ್ಷಕರಿಂದ ಸರಿ ಇರುವ ಪುಸ್ತಿಕೆಗೆ ಬದಲಾಯಿಸಿಕೊಳ್ಳಬೇಕು. ಆ ಬಳಿಕ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯನ್ನು ಬದಲಾಯಿಸಲಾಗುವುದಿಲ್ಲ, ಯಾವುದೇ ಹೆಚ್ಚು ಸಮಯವನ್ನೂ ಕೊಡಲಾಗುವುದಿಲ್ಲ.
- 4. ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ(A), (B), (C) ಮತ್ತು (D) ಎಂದು ಗುರುತಿಸಿದ ನಾಲ್ಕು ಪರ್ಯಾಯ ಉತ್ತರಗಳಿವೆ. ನೀವು ಪ್ರಶ್ನೆಯ ಎದುರು ಸರಿಯಾದ ಉತ್ತರದ ಮೇಲೆ, ಕೆಳಗೆ ಕಾಣಿಸಿದಂತೆ ಅಂಡಾಕೃತಿಯನ್ನು ಕಪ್ಪಾಗಿಸಬೇಕು.

ಉದಾಹರಣೆ: (A) (B) (C) ಸರಿಯಾದ ಉತ್ತರವಾಗಿದ್ದಾಗ.





- 5. ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಗಳನ್ನು, ಪತ್ರಿಕೆ III ಪುಸ್ತಿಕೆಯೊಳಗೆ ಕೊಟ್ಟಿರುವ OMR ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿ ಮಾತ್ರವೇ ಸೂಚಿಸತಕ್ಕದ್ದು. OMR ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿನ ಅಂಡಾಕೃತಿ ಹೊರತುಪಡಿಸಿ ಬೇರೆ ಯಾವುದೇ ಸ್ಥಳದಲ್ಲಿ ಗುರುತಿಸಿದರೆ, ಅದರ ಮೌಲ್ಯಮಾಪನ ಮಾಡಲಾಗುವುದಿಲ್ಲ.
- 6. OMR ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿ ಕೊಟ್ಟ ಸೂಚನೆಗಳನ್ನು ಜಾಗರೂಕತೆಯಿಂದ ಓದಿರಿ.
- 7. ಎಲ್ಲಾ ಕರಡು ಕೆಲಸವನ್ನು ಪುಸ್ತಿಕೆಯ ಕೊನೆಯಲ್ಲಿ ಮಾಡತಕ್ಕದ್ದು
- 8. ನಿಮ್ಮ ಗುರುತನ್ನು ಬಹಿರಂಗಪಡಿಸಬಹುದಾದ ನಿಮ್ಮ ಹೆಸರು ಅಥವಾ ಯಾವುದೇ ಚಿಹ್ನೆಯನ್ನು , ಸಂಗತವಾದ ಸ್ಥಳ ಹೊರತು ಪಡಿಸಿ, OMR ಉತ್ತರ ಹಾಳೆಯ ಯಾವುದೇ ಭಾಗದಲ್ಲಿ ಬರೆದರೆ, ನೀವು ಅನರ್ಹತೆಗೆ ಬಾಧ್ಯರಾಗಿರುತ್ತೀರಿ.
- 9. ಪರೀಕ್ಷೆಯು ಮುಗಿದನಂತರ, ಕಡ್ಡಾಯವಾಗಿ OMR ಉತ್ತರ ಹಾಳೆಯನ್ನು ಸಂವೀಕ್ಷಕರಿಗೆ ನೀವು ಹಿಂತಿರುಗಿಸಬೇಕು ಮತ್ತು ಪರೀಕ್ಷಾ ಕೊಠಡಿಯ ಹೊರಗೆ OMR ನ್ನು ನಿಮ್ನೊಂದಿಗೆ ಕೊಂಡೊಯ್ಯ ಕೂಡದು.
- 🍷 10. ಪರೀಕ್ಷೆಯ ನಂತರ, ಪರೀಕ್ಷಾ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯನ್ನು ಮತ್ತು ನಕಲು OMR ಉತ್ತರ ಹಾಳೆಯನ್ನು ನಿಮ್ಮೆಂದಿಗೆ ತೆಗೆದುಕೊಂಡು ಹೋಗಬಹುದು.
- 11. ನೀಲಿ/ಕಪ್ಪುಬಾಲ್ಪಾಯಿಂಟ್ ಪೆನ್ ಮಾತ್ರವೇ ಉಪಯೋಗಿಸಿರಿ.
- 🧴 12. ಕ್ಯಾಲ್ಕುಲೇಟರ್ ಅಥವಾ ಲಾಗ್ ಟೇಬಲ್ ಇತ್ಯಾದಿಯ ಉಪಯೋಗವನ್ನು ನಿಷೇಧಿಸಲಾಗಿದೆ.
- 13. ಸರಿ ಅಲ್ಲದ ಉತ್ತರಗಳಿಗೆ ಋಣ ಅಂಕ ಇರುವುದಿಲ್ಲ.

Instructions for the Candidates

- 1. Write your roll number in the space provided on the top of this page.
- 2. This paper consists of seventy five multiple-choice type of questions.
- At the commencement of examination, the question booklet will be given to you. In the first 5 minutes, you are requested to open the booklet and compulsorily examine it as below:
 - (i) To have access to the Question Booklet, tear off the paper seal on the edge of this cover page. Do not accept a booklet without sticker-seal and do not accept an open booklet.
 - (ii) Tally the number of pages and number of questions in the booklet with the information printed on the cover page. Faulty booklets due to pages/questions missing or duplicate or not in serial order or any other discrepancy should be got replaced immediately by a correct booklet from the invigilator within the period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given.
- 4. Each item has four alternative responses marked (A), (B), (C) and (D). You have to darken the oval as indicated below on the correct response against each item.

Example : (A) (B) where (C) is the correct response.





- 5. Your responses to the question of Paper III are to be indicated in the OMR Sheet kept inside the Booklet. If you mark at any place other than in the ovals in OMR Answer Sheet, it will not be evaluated.
- 6. Read the instructions given in OMR carefully.
- Rough Work is to be done in the end of this booklet.
- 8. If you write your name or put any mark on any part of the OMR Answer Sheet, except for the space allotted for the relevant entries, which may disclose your identity, you will render yourself liable to disqualification.
- You have to return the test OMR Answer Sheet to the invigilators at the end of the examination compulsorily and must NOT carry it with you outside the Examination Hall.
- You can take away question booklet and carbon copy of OMR Answer Sheet soon after the examination.
- 11. Use only Blue/Black Ball point pen.
- Use of any calculator or log table etc., is prohibited.
- 13. There is no negative marks for incorrect answers.



Paper – III

Note: This paper contains **seventy-five (75)** objective type questions. **Each** question carries **two (2)** marks. **All** questions are **compulsory**.

- **1.** In the soil profile the percentage of organic component is more in
 - (A) Bed rock
 - (B) Partially weathered portion
 - (C) Top soil
 - (D) Sub-soil
- 2. Stream which flows in the opposite direction to the original consequent streams is described as
 - (A) Obsequent
- (B) Subsequent
- (C) Insequent
- (D) Resequent
- 3. 'Natural levee' is an example of
 - (A) Point-bar deposits
 - (B) Channel-fill deposits
 - (C) Flood plain deposits
 - (D) Flood basin deposits
- **4.** Which of the following is a feature exhibited by a river in its upper course?
 - (A) Meanders
- (B) River-Piracy
- (C) Piedmont
- (D) Sloughs
- **5.** In which of the following sedimentary environments would you least expect to find gravel?
 - (A) Alluvial fans
 - (B) Deep marine
 - (C) Glacial
 - (D) Active margin beach
- **6.** Which of the following types of sediments are most abundant?
 - (A) Coarse clastics
 - (B) Fine clastics
 - (C) Chemical
 - (D) Biochemical

- **7.** A sandstone with abundant rock fragments and clay minerals is called
 - (A) Arkose
- (B) Lith arenite
- (C) Quartz arenite (D) Shale
- **8.** An irregular suture like boundary developed in some limestone, along which the non-carbonate impurities may collect, formed by pressure solution process is called
 - (A) Stylolite
- (B) Inversion
- (C) Overgrowth
- (D) Septaria
- **9.** In order that a organism or plant becomes fossil it must possess
 - (A) Endoskeleton (B) Soft parts
 - (C) Visceral mass (D) Pallial sinus
- **10.** Fenestella-a net like Bryozoan that lived from
 - (A) Silurian Ordovician
 - (B) Ordovician Permian
 - (C) Precambrian Cambrian
 - (D) Jurassic Recent
- 11. Stromatolites are
 - (A) Green algae
 - (B) Blue algae
 - (C) Organo-sedimentary structures
 - (D) Sedimentary structures
- **12.** Polyp and medusa are the terms associated with
 - (A) Trilobites
- (B) Bryozoans
- (C) Corals
- (D) Ammonoids
- **13.** Most periods in geological time scale are named after
 - (A) Fossils
 - (B) Catastrophic events
 - (C) Geographic localities
 - (D) Paleontologists

- **14.** A stratigraphic sequence is a vertical set of strata
 - (A) Used as a chronological record of the geologic history of a region
 - (B) That represents a repeating set of events such as recurring floods, debris flow etc.
 - (C) Bounded above and below by igneous and or metamorphic rocks
 - (D) That is unique to a specific area
- **15.** Which of the following is called the age of Fishes?
 - (A) Cambrian
- (B) Devonian
- (C) Ordovician
- (D) Silurian
- 16. Strike slip faults show the rake of
 - (A) 45°
- (B) 0°
- (C) 90°
- (D) $0^{\circ} 90^{\circ}$
- **17.** _____ fold forms when a competent bed spides past an incompetent bed.
 - (A) Tight
- (B) Drag
- (C) Chevron
- (D) Arch-bend
- **18.** Which of the following show the effect of tensional forces?
 - 1) Columnar joints
 - 2) Mud cracks
 - 3) Graben
 - 4) Bedding joints
 - (A) 1 and 2 only
 - (B) 1 and 3 only
 - (C) 1, 2 and 3 only
 - (D) 1, 2, 3 and 4
- 19. The fault in which the hanging wall has gone down relative to the foot wall is known as
 - (A) Normal fault
 - (B) Reverse fault
 - (C) Transcurrent fault
 - (D) Strike slip fault
- **20.** Uvarovite is a type of
 - (A) Mica
- (B) Olivine
- (C) Garnet
- (D) Pyroxene

- **21.** Which of the following mineral is polymorph of silica?
 - (A) Stevensite
- (B) Brucite
- (C) Coesite
- (D) Indialite
- **22.** Crystals having a single 3-fold or 6-fold axis belong to _____ crystal system.
 - (A) Cubic
- (B) Orthorhombic
- (C) Tetragonal
- (D) Hexagonal
- **23.** Amongst the silicates pyroxenes belong to
 - (A) Orthosilicates
 - (B) Sorosilicates
 - (C) Chain silicates
 - (D) Sheet silicates
- 24. Chondrites are consisting primarily of
 - (A) Olivine only
 - (B) Pyroxene only
 - (C) Olivine and/or pyroxene
 - (D) Iron and Nickel
- 25. Different elements with the same neutron number but with different values of atomic weight and protons are known as
 - (A) Isotopes
- (B) Isobars
- (C) Isotones
- (D) Isotherm
- **26.** The geochemical character of an element is largely governed by
 - (A) Number of neutrons in the nucleus
 - (B) Number of proton in the nucleus
 - (C) Electronic configuration of its atoms
 - (D) Both protons and neutrons
- 27. Match the following:
 - 1) Siderophile
- i) Sulfides
- 2) Chalcophile
- ii) Silicates
- 3) Lithophile
- iii) Metallic ions
- 4) Atmophile
- iv) Atmospheric compounds
- (A) 1 ii, 2 iii, 3 i, 4 iv
- (B) 1 iii, 2 ii, 3 iv, 4 i
- (C) 1 iii, 2 i, 3 ii, 4 iv
- (D) 1 iv, 2 ii, 3 iii, 4 i





- **28.** Blue schist metamorphism is characterized by the presence of
 - (A) Glaucophane (B) Glauconite
 - (C) Grunerite
- (D) Wollastonite
- **29.** Mineral assemblage orthopyroxeneclinopyroxene-plagioclase in the basic rocks belong to the following facies
 - (A) Lower amphibolite
 - (B) Upper amphibolite
 - (C) Green schist
 - (D) Epidote-amphibolite
- **30.** A rock that has undergone cataclastic metamorphism would most likely display the following
 - (A) Preserved sedimentary layering
 - (B) Pulverized rock fragments
 - (C) New minerals
 - (D) Large olivine crystals
- **31.** What is the most prominent textural feature of regional metamorphic rocks?
 - (A) Foliation
- (B) Bedding
- (C) Cataclasis
- (D) Ripples
- **32.** Rock containing normative quartz and hypersthene is designated as
 - (A) Quartz Tholeiite
 - (B) Olivine Tholeiite
 - (C) Alkaline
 - (D) Sub-alkaline
- 33. Ore deposits associated with granoblastic aggregate of quartz and muscovite with accessory amounts of topaz, tourmaline and fluorite formed by the post-magmatic metasomatic alteration of granites are referred to as
 - (A) Greisen deposits
 - (B) Skarn deposits
 - (C) Sedex deposits
 - (D) Kuroko type deposits

- **34.** Naushahi in Singbhum-Orissa-Iron-Ore-Craton is known for
 - (A) Chromite
- (B) BIF
- (C) Manganese
- (D) Copper
- **35.** Hydrothermal ore deposits are recognised by
 - i) Wall rock alteration
 - ii) Vein-type ore bodies
 - iii) Magmatic host rock
 - iv) Sedimentary host rock

Which of the above options are always true?

- (A) i and ii
- (B) i and iii
- (C) i and iv
- (D) ii and iv
- **36.** One of these minerals is commonly not idioblastic
 - (A) Pyrite
- (B) Galena
- (C) Magnetite
- (D) Sphalerite
- 37. Continental shelf is defined as
 - (A) The height of the continent from mean sea level
 - (B) The height difference between two continents
 - (C) The zone around the continents from the low water mark seaward upto the continental slope
 - (D) The distance between two continents
- **38.** Almost half of the sediments reaching the oceans comes from
 - (A) Asia
- (B) South America
- (C) Africa
- (D) Australia
- 39. Atolls may be described as
 - (A) Coral reefs paralleling a nearby coastline
 - (B) Coral reefs surrounding a lagoon
 - (C) A flat topped submerged seamount
 - (D) A small reef growth in a lagoon



- **40.** The highest known waves have occurred
 - (A) As the result of earthquakes
 - (B) During hurricanes
 - (C) After volcanic eruptions
 - (D) When landslides dumped large amounts of material into small bodies of water
- 41. _____ is a mixture of hydrocarbons that exists in the liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities.
 - (A) Tar
- (B) Crude oil
- (C) Rock oil
- (D) Diesel
- **42.** Which of the following do not happen with increasing degree of coalification?
 - i) Increase in fixed carbon
 - ii) Increase in calorific value
 - iii) Increase in moisture content
 - iv) Increase in ash content
 - (A) i and ii
- (B) iii and iv
- (C) i and iii
- (D) ii and iv
- **43.** In India coking coal is produced from one of the following coal fields
 - (A) Singareni
- (B) Singrauli
- (C) Talchir
- (D) Jharia
- 44. 'Oil Window' refers to
 - (A) Oil deposits situated at shallow depth
 - (B) Oil deposits situated at great depth
 - (C) P, T condition under which oil is formed
 - (D) Host rock in which oil is formed
- **45.** In the Dharwar craton grade of metamorphism
 - (A) Increases from south to north
 - (B) Increases from east to west
 - (C) Increases from west to east
 - (D) Increases from north to south

- 46. Eastern ghats is part of
 - (A) Shield area
 - (B) Greenstone belt
 - (C) Mobile belt
 - (D) Sedimentary belt
- **47.** Nilgiri Hills of Tamil Nadu are composed of
 - (A) Charnockites
 - (B) Amphibolites
 - (C) Anorthosites
 - (D) Granites
- **48.** The oldest rocks in the world are reported from
 - (A) Australia
- (B) India
- (C) Antarctica
- (D) Greenland
- 49. A near-horizontal excavation that is open to the surface at one end only is termed as
 - (A) Tunnel
 - (B) Shaft
 - (C) Adit
 - (D) Stopping ground
- **50.** Which one of the following forms good concrete aggregates ?
 - (A) Angular fragments of granite with rough surface
 - (B) Angular fragments of granite with smooth surface
 - (C) Rounded to sub-rounded fragments of granite
 - (D) Angular fragments of limestone
- **51.** Following structure is generally preferred in steep and narrow valley regions
 - (A) Gravity dam
 - (B) Arch dam
 - (C) Buttress dam
 - (D) Rock fill dam



- **52.** Sorting of grains is generally carried out by
 - (A) Jaw Crushers
 - (B) Classifiers

- (C) Cone crushers
- (D) Rod mills
- **53.** The most useful drilling for penetrating hard or abrasive ground is
 - (A) Diamond drilling
 - (B) Percussion drilling
 - (C) Rotary drilling
 - (D) Churn drilling
- **54.** Which one of the following type of ore deposit and corresponding ore guide is not correctly matched?
 - (A) Lode gold : Arsenic in soil
 - (B) Massive sulphide: Gossan capping
 - (C) Porphyry copper: Nickel in soil
 - (D) Diamond bearing kimberlite : Pyrope garnet
- 55. Strip mining operation involves
 - (A) Removal of the mineralised horizontal strata one by one
 - (B) Developing a shaft to reach the mineralised part
 - (C) Stopping of steeply dipping ore bodies
 - (D) Developing raises and winzes
- **56.** The water occurring in a rock formation was entrapped during the deposition of the rock is called
 - (A) Connate water
 - (B) Meteoric water
 - (C) Juvenile water
 - (D) Metamorphic water
- **57.** How much of the Earth's water is stored in underground aquifers?
 - (A) Less than 1% (B) About 5%
 - (C) About 10%
- (D) About 20%

- **58.** According to international norms, a country becomes water stressed when the per capita water availability is less than
 - (A) 1000 m³
- (B) 1200 m³
- (C) 1700 m³
- (D) 1500 m³
- **59.** In an area of 100 ha, the water table dropped by 4.5 m. If the porosity is 30% and specific yield is 20%, change in ground water storage is
 - (A) 9 ha.m
- (B) 90 ha.m
- (C) 900 ha.m
- (D) 9000 ha.m
- **60.** The point vertically below the camera lenses on the ground is
 - (A) Ground point
 - (B) Ground nadir point
 - (C) Perspective center
 - (D) Isocenter
- **61.** Which of the following statements are incorrect?
 - i) 0.4 to 0.5 microns is not a part of the visible band
 - ii) 0.7 to 0.8 microns is not a part of the visible band
 - iii) Radio waves have the shortest wavelength
 - iv) Gamma ray band is also known as intra red band
 - (A) i, iii and iv
 - (B) ii, iii and iv
 - (C) i, ii and iii
 - (D) i, ii and iv
- **62.** The largest scale among the following is
 - (A) 1:24000
- (B) 1:62500
- (C) 1:100000
- (D) 1:500000
- **63.** Which of the following types of remote sensing would be most useful in obtaining an accurate terrain representation of earth?
 - (A) Radar
- (B) Microwave
- (C) Landsat
- (D) Sonar

- 64. A balance is obtained in one of the following during hydrostatic equilibrium
 - (A) Pressure gradient and gravity
 - (B) Pressure gradient and Coriolis force
 - (C) Coriolis force and gravity
 - (D) Coriolis force and friction
- **65.** The lower limit of ionosphere is in the range of
 - (A) 40 km 60 km
 - (B) 70 km 80 km
 - (C) 90 km 100 km
 - (D) 110 km 130 km
- **66.** In which one of the following atmospheric condition the thermal wind is zero?
 - (A) Barotropic
- (B) Baroclinic
- (C) Neutral
- (D) Standard
- **67.** During night times radiowaves, are detected at great distances due to changes in
 - (A) Mesosphere
- (B) Stratosphere
- (C) Troposphere (D) Ionosphere
- 68. If 'T' is the planet's period of orbit and 'a' is the semi major axis of the orbit then the Kepler's law of planetary motion states
 - (A) $a = \sqrt{T^3}$ (B) $T^2 = a^3$

 - (C) $T = \frac{1}{a^2}$ (D) $a = \frac{1}{3}(T^2)$
- 69. Which of the following has the least resistivity?
 - (A) Diamond
- (B) Sulphur
- (C) Clay
- (D) Anthracite
- 70. Larmour frequency is associated with
 - (A) Proton Precession Magnetometer
 - (B) Schmidt's Vertical Magnetometer
 - (C) Schmidt's horizontal magnetometer
 - (D) Gravimeter

- 71. Which of the following are assumptions made to compute master curves for vertical resistivity sounding?
 - I) Layers are horizontal
 - II) Layers are isotropic and homogeneous
 - III) Layers are isotropic and heterogeneous
 - IV) Last layer extends till infinity
 - (A) I, II, III
- (B) II, III, IV
- (C) I, II, IV
- (D) III, IV, II
- 72. Western boundary currents in the general circulation ocean models are
 - (A) Ekman boundary layers
 - (B) Slommel boundary layers
 - (C) Munk boundary layers
 - (D) Sverdrup boundary layers
- 73. Salinity of water in an Estuary is reduced due to
 - (A) Sea water intrusion
 - (B) Evaporation of water
 - (C) Incursion of tidal current
 - (D) Fresh water input
- 74. Sediments are transported in large volumes over long distances by
 - (A) Tidal action
 - (B) Ice bergs
 - (C) Storm waves
 - (D) Turbidity currents
- **75.** The name of a rapid rise of coastal water that accompanies the arrival of a cyclone is called
 - (A) Hurricane
 - (B) Storm surge
 - (C) Tidal wave
 - (D) After shock



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