Te	st Paper : III						
Test Subject : EARTH SCIENCE			Test Booklet Serial No. :				
			MR Sheet No. :				
Tes	st Subject Code : K-3215	R	oll No.				
		110	(Figures as per admission card)				
	Name & Signatu	re o					
	Signature :						
	Name :						
	Paper :		ADTH CCIENCE				
Tin	ne : 2 Hours 30 Minutes		ARTH SCIENCE Maximum Marks : 150				
Nu	mber of Pages in this Booklet : 16		Number of Questions in this Booklet : 75				
4	ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಸೂಚನೆಗಳು	4	Instructions for the Candidates				
2	ಈ ಪುಟದ ಮೇಲ್ತುದಿಯಲ್ಲಿ ಒದಗಿಸಿದ ಸ್ಥಳದಲ್ಲಿ ನಿಮ್ಮ ರೋಲ್ ನಂಬರನ್ನು ಬರೆಯಿರಿ. ಈ ಪತ್ರಿಕೆಯು ಬಹು ಆಯ್ಕೆ ವಿಧದ ಎಪ್ಪತ್ತೈದು ಪ್ರಶ್ನೆಗಳನ್ನು ಒಳಗೊಂಡಿದೆ.	2.	Write your roll number in the space provided on the top of this page. This paper consists of seventy five multiple-choice type of questions.				
	ರ, ಪತ್ರಕೀಯ ಹೆಚ್ಚು ತಮ್ಮ ಪಮ್ಮಪ್ಪಡು ಪ್ರತ್ಯ ಗುನ್ನು ಜಾಗ ಗಿಂಬಡು. ಪರೀಕ್ಷೆಯ ಪ್ರಾರಂಭದಲ್ಲಿ, ಪ್ರಶ್ನೆಪ್ರಸ್ತಿಕೆಯನ್ನು ನಿಮಗೆ ನೀಡಲಾಗುವುದು. ಮೊದಲ5 ನಿಮಿಷಗಳಲ್ಲಿ		At the commencement of examination, the question booklet will				
	ನೀವು ಪ್ರಸ್ತಿಕೆಯನ್ನು ತೆರೆಯಲು ಮತ್ತು ಕೆಳಗಿನಂತೆ ಕಡ್ಡಾಯವಾಗಿ ಪರೀಕ್ಷಿಸಲು ಕೋರಲಾಗಿದೆ.		be given to you. In the first 5 minutes, you are requested to				
	(i) ಪ್ರಶ್ನೆ ಪ್ರಸ್ತಿಕೆಗೆ ಪ್ರವೇಶಾವಕಾಶ ಪಡೆಯಲು, ಈ ಹೊದಿಕೆ ಪುಟದ ಅಂಚಿನ ಮೇಲಿರುವ		open the booklet and compulsorily examine it as below:				
	ಪೇಪರ್ ಸೀಲನ್ನು ಹರಿಯಿರಿ. ಸ್ಟಿಕ್ಟರ್ ಸೀಲ್ ಇಲ್ಲದ ಅಥವಾ ತೆರೆದ ಪುಸ್ತಿಕೆಯನ್ನು		(i) To have access to the Question Booklet, tear off the paper seal on the edge of the cover page. Do not accept a				
	ಸ್ವೀಕರಿಸಬೇಡಿ.		booklet without sticker seal or open booklet.				
	(ii) ಪುಸ್ತಿಕೆಯಲ್ಲಿನ ಪ್ರಶ್ನೆಗಳ ಸಂಖ್ಯೆ ಮತ್ತು ಪುಟಗಳ ಸಂಖ್ಯೆಯನ್ನು ಮುಖಪುಟದ ಮೇಲೆ		(ii) Tally the number of pages and number of questions				
	ಮುದ್ರಿಸಿದ ಮಾಹಿತಿಯೊಂದಿಗೆ ತಾಳೆ ನೋಡಿರಿ. ಪುಟಗಳು/ಪ್ರಶ್ನೆಗಳು ಕಾಣೆಯಾದ,		in the booklet with the information printed on the				
	ಅಥವಾ ದ್ವಿಪ್ರತಿ ಅಥವಾ ಅನುಕ್ರಮವಾಗಿಲ್ಲದ ಅಥವಾ ಇತರ ಯಾವುದೇ ವ್ಯತ್ಯಾಸದ		cover page. Faulty booklets due to pages/questions or missing or duplicate or not in serial order or any or				
	ದೋಷಪೂರಿತ ಪುಸ್ತಿಕೆಯನ್ನು ಕೂಡಲೆ5 ನಿಮಿಷದ ಅವಧಿ ಒಳಗೆ, ಸಂವೀಕ್ಷಕರಿಂದ ಸರಿ		other discrepancy should be got replaced immediately				
	ಇರುವ ಪುಸ್ತಿಕೆಗೆ ಬದಲಾಯಿಸಿಕೊಳ್ಳಬೇಕು. ಆ ಬಳಿಕ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯನ್ನು		by a correct booklet from the invigilator within the				
4	ಬದಲಾಯಿಸಲಾಗುವುದಿಲ್ಲ, ಯಾವುದೇ ಹೆಚ್ಚು ಸಮಯವನ್ನೂ ಕೊಡಲಾಗುವುದಿಲ್ಲ.		period of 5 minutes. Afterwards, neither the Question Booklet will be replaced nor any extra time will be given.				
	ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗೂ(A), (B), (C) ಮತ್ತು (D) ಎಂದು ಗುರುತಿಸಿದ ನಾಲ್ಕು ಪರ್ಯಾಯ ಉತ್ತರಗಳಿವೆ. ನೀವು ಪ್ರಶ್ನೆಯ ಎದುರು ಸರಿಯಾದ ಉತ್ತರದ ಮೇಲೆ, ಕೆಳಗೆ ಕಾಣಿಸಿದಂತೆ	4.	Each item has four alternative responses marked (A), (B), (C)				
	ತಂತ್ರರಗಳು. ನೀವು ಪ್ರಶ್ನಯ ಬದುರು ಸರಿಯಾದ ಕಂತ್ರರದ ಮೇಲ, ಕಳಗೆ ಕಾಣಸದಂತ ಅಂಡಾಕೃತಿಯನ್ನು ಕಪ್ಪಾಗಿಸಬೇಕು.		and (D). You have to darken the oval as indicated below on the				
	ಉದಾಹರಣೆ: (A) (B) (D)		correct response against each item.				
	(C) ಸರಿಯಾದ ಉತ್ತರವಾಗಿದ್ದಾಗ.		Example: (A) (B) (D)				
	್ತ್ರ ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಗಳನ್ನು, ಪತ್ರಿಕೆIII ಪುಸ್ತಿಕೆಯೊಳಗೆ ಕೊಟ್ಟಿರುವOMR ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿ		where (C) is the correct response.				
	ವುತ್ತದೇ ಸೂಚಿಸತಕ್ಕದ್ದು OMR ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿನ ಅಂಡಾಕೃತಿ ಹೊರತುಪಡಿಸಿ ಬೇರೆ	5.	Your responses to the question of Paper III are to be indicated				
	ಯಾವುದೇ ಸ್ಥಳದಲ್ಲಿ ಗುರುತಿಸಿದರೆ, ಅದರ ಮೌಲ್ಯಮಾಪನ ಮಾಡಲಾಗುವುದಿಲ್ಲ.		in the OMR Sheet kept inside the Booklet . If you mark at any				
	OMR ಉತ್ತರ ಹಾಳೆಯಲ್ಲಿ ಕೊಟ್ಟ ಸೂಚನೆಗಳನ್ನು ಜಾಗರೂಕತೆಯಿಂದ ಓದಿರಿ.		place other than in the ovals in OMR Answer Sheet, it will not be evaluated.				
	ಎಲ್ಲಾ ಕರಡು ಕೆಲಸವನ್ನು ಪುಸ್ತಿಕೆಯ ಕೊನೆಯಲ್ಲಿ ಮಾಡತಕ್ಕದ್ದು .	6.	Read the instructions given in OMR carefully.				
		7.	Rough Work is to be done in the end of this booklet.				
	ನಿಮ್ಮ ಗುರುತನ್ನು ಬಹಿರಂಗಪಡಿಸಬಹುದಾದ ನಿಮ್ಮ ಹೆಸರು ಅಥವಾ ಯಾವುದೇ ಚಿಹ್ರೆಯನ್ನು , ಸಂಗತವಾದ ಸ್ಥಳ ಹೊರತು ಪಡಿಸಿ, OMR ಉತ್ತರ ಹಾಳೆಯ ಯಾವುದೇ	8.					
	ಡಹ್ನಯನ್ನು , ಸಂಗತವಾದ ಸ್ಥಳ ಹಾಂತು ಐಡಸ, OMH ಕಲತ್ತರ ಹಾಳಯ ಯಾವುದೇ ಭಾಗದಲ್ಲಿ ಬರೆದರೆ, ನೀವು ಅನರ್ಹತೆಗೆ ಬಾಧ್ಯರಾಗಿರುತ್ತೀರಿ.		Answer Sheet, except for the space allotted for the relevant				
	· -		entries, which may disclose your identity, you will render yourself a liable to disqualification.				
	ಪರೀಕ್ಷೆಯು ಮುಗಿದನಂತರ, ಕಡ್ಡಾಯವಾಗಿ OMR ಉತ್ತರ ಹಾಳೆಯನ್ನು ಸಂವೀಕ್ಷಕರಿಗೆ	9.	You have to return the test OMR Answer Sheet to the invigilators				
	ನೀವು ಹಿಂತಿರುಗಿಸಬೇಕು ಮತ್ತು ಪರೀಕ್ಷಾ ಕೊಠಡಿಯ ಹೊರಗೆ OMR ನ್ನು ನಿಮ್ಮೊಂದಿಗೆ		at the end of the examination compulsorily and must NOT				
	ಕೊಂಡೊಯ್ಯಕೂಡದು. ಪರೀಕ್ಷೆಯ ನಂತರ, ಪರೀಕ್ಷಾ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯನ್ನು ಮತ್ತು ನಕಲು OMR ಉತ್ತರ ಹಾಳೆಯನ್ನು .		carry it with you outside the Examination Hall.				
	ಎರೀಕ್ಷ್ಮಯ ನಂತರ, ಐರೀಕ್ಷ್ಮಪ್ರಶ್ನ ಐತ್ರಕಿಯನ್ನು ಮತ್ತು ನಿಕಲು OMIH ಕಿರಿತ್ತರ ಹಾಳಿಯನ್ನು ನಿಮೊಂದಿಗೆ ತೆಗೆದುಕೊಂಡು ಹೋಗಬಹುದು.	10.	You can take away question booklet and carbon copy of OMB Answer Sheet soon after the examination				

 In case of any discrepancy found in the Kannada translation of a question booklet the question in English version shall be taken as final. K-3215

11. Use only Blue/Black Ball point pen.

12. Use of any calculator or log table etc., is prohibited.

13. There is no negative marks for incorrect answers.

11. ನೀಲಿ∕ ಕಪ್ಪುಬಾಲ್ಪಾಯಿಂಟ್ ಪೆನ್ ಮಾತ್ರವೇ ಉಪಯೋಗಿಸಿರಿ.

13. ಸರಿ ಅಲ್ಲದ ಉತ್ತರಗಳಿಗೆ ಋಣ ಅಂಕ ಇರುವುದಿಲ್ಲ.

🖢 12. ಕ್ಯಾಲ್ಕುಲೇಟರ್ ಅಥವಾ ಲಾಗ್ ಟೇಬಲ್ ಇತ್ಯಾದಿಯ ಉಪಯೋಗವನ್ನು ನಿಷೇಧಿಸಲಾಗಿದೆ.

14. ಕನ್ನಡ ಮತ್ತು ಇಂಗ್ಲೀಷ್ ಆವೃತ್ತಿಗಳ ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಗಳಲ್ಲಿ ಯಾವುದೇ ರೀತಿಯ ವ್ಯತ್ಯಾಸಗಳು ಕಂಡುಬಂದಲ್ಲಿ, ಇಂಗ್ಲೀಷ್ ಆವೃತ್ತಿಗಳಲ್ಲಿರುವುದೇ ಅಂತಿಮವೆಂದು ಪರಿಗಣಿಸಬೇಕು.



EARTH SCIENCE PAPER – III

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

are compuisory.		
 4. The presence of glauconite in a sedimentary rock is indicative of a environment. (A) Continental weathering and fresh water depositional 		
(B) Glacial (C) Littoral (D) Marine 5. Cross bedding is a		
property. (A) Scalar (B) Vector		
(C) Planar(D) Linear6. Which of the following is associated with eugeosynclinal deposits ?		
(A) Molasse(B) Arkose(C) Graywacke(D) Flysch		

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7.	Which of the following is the correct
	genetic sequence of karst landforms?

- (A) doline \rightarrow polje \rightarrow uvala
- (B) uvala \rightarrow doline \rightarrow polje
- (C) doline \rightarrow uvala \rightarrow polje
- (D) uvala \rightarrow polje \rightarrow doline

8. Match the following and select the correct option using the code given below:

- a. Ostracoda
- 1. Plate
- b. Foraminifera
- 2. Spicule
- c. Sponge
- 3. Test
- d. Echinodermata 4. Carapace

Code:

	а	b	С	d
(A)	4	2	1	3
(B)	4	3	2	1
(C)	3	4	2	1
(D)	3	2	1	4

9. Foraminifera and ostracoda are useful in the correlation of strata separated by distances of several kilometres and belonging to a range of environments. Ostracoda are considered more valuable than foraminifera in such cases because

(A)	Ostracoda occur in environments
	ranging from terrestrial to deep
	marine

- (B) Ostracoda are more sensitive to environmental fluctuations.
- (C) Chances of fossilization of ostracoda are better
- (D) Morphology of ostracoda is very distinctive

10. Which of the following is characteristic of the Barren Measures?

- (A) Cyclodendron
- (B) Glossopteris
- (C) Gangamopteris
- (D) Gondwanidium

11. The index fossil of Danian in the Indian subcontinent is

- (A) Lenticulina
- (B) Robilus
- (C) Cardita beaumonti
- (D) Operculina

12. Late Maastrichtian fresh water sediments in India are represented by the beds.

- (A) Bagh
- (B) Lameta
- (C) Zewan
- (D) Uttatur

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Total Number of Pages : 16 16 Match the following and select the correct

13.	Cenomanian transgression took place	16.		ch the to on usin	_			the correct below :
	during the era. (A) Mesozoic (B) Proterozoic		a.	Plungi surrou	_	-	whe you are	tructure ere the inger rocks by the er rocks
	(C) Cenozoic		b.	Outlie	r	2		old with a ping axis
14.	(D) Archaean The Ajabgarh Series belongs to the Supergroup.		C.	Simila	r fold	(whe olde suri	tructure ere the er rocks are rounded he younger ks
			d.	Inlier		4	4. Cor	nstant
	(A) Delhi			throug	hout		Ortl	hogonal
	(B) Cuddapah			the fol	d		thic	kness
	(C) Arevelli		Coc	le :				
	(C) Aravalli			а	b	С	d	
	(D) Dharwar		(A)	2	1	4	3	
			(B)	1	4	3	2	
15.	was the warmest epoch of		(C)	3	2	1	4	
	the Cenozoic.		(D)	4	3	2	1	
	(A) Palaeocene	17. Which of the following refers to closely spaced joints ?						
	(B) Eocene		(A)	Fractu	ıre clea	vage)	
	(C) Oligocene		, ,	Shear Beddii		_		
	(D) Miocene		(D)	Crenu	lation c	leav	age	



- **18.** _____ fault is circular or arcuate and bounds a circular area or a part of it.
 - (A) A peripheral
 - (B) An en echelon
 - (C) A radial
 - (D) A parallel
- 19. In a disconformity,
 - (A) Both older and younger rocks are parallel
 - (B) Younger igneous rocks lie on the eroded surface of older sedimentary rocks
 - (C) Younger inclined beds lie on the eroded surface of older inclined beds
 - (D) Younger horizontal beds lie on the eroded surface of older inclined beds
- **20.** Which of the following pairs is **NOT** correctly matched?

Mineral	Hardness
(A) Orthoclase	6
(B) Topaz	8
(C) Gypsum	2
(D) Fluorite	7

- **21.** What is the anorthite content of andesine ?
 - (A) $An_{10} An_{30}$
 - (B) $An_{30} An_{50}$
 - (C) $An_{70} An_{90}$
 - (D) An₉₀ An₁₀₀
- **22.** _____ form continuous single chains of tetrahedra by the sharing of two oxygen atoms.
 - (A) Phyllosilicates
 - (B) Inosilicates
 - (C) Cyclosilicates
 - (D) Nesosilicates
- **23.** Match the following and select the correct option from the code given below:
 - a. Hypersthene
- 1. Pearlspar
- b. Calcite
- 2. Schillarspar
- c. Gypsum
- 3. Icelandspar
- d. Dolomite
- 4. Satinspar

Code:

	а	b	С	d
(A)	2	3	4	1
(B)	1	4	2	3
(C)	3	2	1	4
(D)	4	3	2	1

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24.	A mineral series showing a continuous
	change in composition without any
	significant change in the form is
	series.

- (A) A discontinuous
- (B) A Solid solution
- (C) An isotypic
- (D) An isostructural
- **25.** Isotopic fractionation during precipitation involves which of the following ?
 - (A) More of lighter isotopes enter the liquid phase
 - (B) More of heavier isotopes enter the liquid phase
 - (C) Less of lighter isotopes enter the liquid phase
 - (D) Less of heavier isotopes enter the liquid phase
- **26.** _____ is/are the most abundant element/s in the Sun.
 - (A) Hydrogen and nitrogen
 - (B) Helium
 - (C) Hydrogen and Helium
 - (D) Carbon and Helium

27. Aerolites are				
mete	eorites.			
(A)	Metallic			
(B)	Stony			
(C)	Stony-iron			

- **28.** Match the following and select the option from the code given below:
 - 1. Atmophile i. Metallic iron
 - 2. Lithophile ii. Atmosphere
 - 3. Siderophile iii. Silicates
 - 4. Chalcophile iv. Sulphides

Code:

(D) Iron

- 1 2 3 4

 (A) ii iii i iv

 (B) iv iii ii i

 (C) iii iv i ii
- (D) i iii ii iv
- **29.** α -quartz, β -quartz and tridymite are examples of
 - (A) dimorphism
 - (B) isomorphism
 - (C) polymorphism
 - (D) dimorphism and isomorphism



- **30.** Vermicular intergrowth between quartz and plagioclase is referred to as
 - (A) perthite
 - (B) myrmekite
 - (C) granophyre
 - (D) antiperthite
- **31.** Phase diagrams are graphic representations depicting the equilibrium between the
 - (A) Magmas of different composition
 - (B) Different phases and their composition
 - (C) Temperature and pressure of the magma
 - (D) Saturation of volatiles and composition of the magma
- **32.** Which of the following is a typomorphic texture in metamorphic rocks?
 - (A) blasto-porphyritic
 - (B) blasto-peilitic
 - (C) porphyroblastic
 - (D) palimpsest
- 33. Spinifex texture is characteristic of
 - (A) komatiite
 - (B) kimberlite
 - (C) lamprophyre
 - (D) peridotite

- **34.** The occurrence of charnockite in any metamorphic terrain indicates the facies of
 - metamorphism.
 - (A) greenschist
 - (B) granulite
 - (C) sanidinite
 - (D) eclogite
- **35.** Olivine and quartz do not co-exist in igneous rocks because
 - (A) Quartz crystallises at high temperature and olivine at low temperature
 - (B) Olivine crystallises at high temperature and quartz at low temperature
 - (C) Both olivine and quartz crystallise at high temperature
 - (D) Olivine crystallises at moderate temperature and quartz at high temperature
- **36.** Choose the correct sequence of minerals in the Bowen's reaction series
 - (A) Olivine clinopyroxene orthopyroxene – hornblende
 - (B) Olivine hornblende clinopyroxene – orthopyroxene
 - (C) Olivine orthopyroxene hornblende clinopyroxene
 - (D) Olivine orthopyroxene clinopyroxene hornblende

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- **37.** The characteristic assemblage of blueschist facies is
 - (A) garnet omphacite
 - (B) lawsonite glaucophane
 - (C) garnet hypersthene
 - (D) garnet diopside
- **38.** _____ is a synthetic abrasive made by the fusion of petroleum coke and silica.
 - (A) Alundrum
 - (B) Carborundum
 - (C) Boron oxide
 - (D) Metallic abrasive
- **39.** Which of the following is **NOT** correctly matched?
 - (A) magmatic process segregation deposits
 - (B) hydrothermal process cavity filling deposits
 - (C) weathering placer deposits
 - (D) sedimentation kyanite and staurolite deposits

- **40.** Which of the following is NOT correctly matched?
 - (A) magnetite Fe₃O₄
 - (B) haematite FeO TiO₂
 - (C) limonite Fe₂O₃ H₂O
 - (D) siderite FeCO₃
- **41.** Chromite deposits of Nuggehalli and Sargur schist belts of Karnataka formed by
 - (A) early magmatic segregation
 - (B) early magmatic dissemination
 - (C) immiscible liquid segregation
 - (D) residual gravitative liquid segregation
- **42.** New oceanic lithosphere forms at plate boundaries.
 - (A) convergent
 - (B) divergent
 - (C) transform
 - (D) transcurrent
- **43.** The rate of deep ocean circulation may be determined using
 - (A) ²²⁶Ra
 - (B) ²³⁸U
 - (C) 3H
 - (D) ²³⁵Th



- **44.** Anoxic sediments are not characterised by
 - (A) black colour
 - (B) Green colour
 - (C) brown colour
 - (D) H₂S odour
- **45.** Two characteristic features of placer minerals are
 - (A) high specific gravity and low susceptibility to chemical weathering
 - (B) low specific gravity and low susceptibility to chemical weathering
 - (C) high specific gravity and high susceptibility to chemical weathering
 - (D) low specific gravity and high susceptibility to chemical weathering
- **46.** _____ indicates an oxic environment.
 - (A) High Mn²⁺ concentration in pore water
 - (B) Low Mn²⁺ concentration in pore water
 - (C) Black sediment colour
 - (D) Presence of pyrite

47. Consider the following statements:Assertion (A): Clay and Shale are good cap rocks for oil reservoirs.

Reason (R): Clay and Shale are impervious and retain oil in the reservoir.

Now select the correct option according to the code given below:

Code:

- (A) Both (A) and (R) is true but (R) is not the correct explanation of (A)
- (B) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (C) (A) is true but (R) is false
- (D) (A) is false but (R) is true
- **48.** _____ persistently changes during coalification.
 - (A) Volatile matter content
 - (B) Vitrinite reflectance
 - (C) Ash content
 - (D) Calorific value
- **49.** The grade of metamorphism of the Dharwar Supergroup
 - (A) Increases from north to south
 - (B) Increases from south to north
 - (C) Increases from east to west
 - (D) Decreases from east to west

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- **50.** Sedimentary rocks predominate over mafic rocks in the
 - (A) Eastern Dharwar Craton
 - (B) Western Dharwar Craton
 - (C) Bastar Craton
 - (D) Singhbhum Craton
- **51.** _____ is / are the characteristic rock type/s of granulite facies terrains.
 - (A) Pillow basalts and gneiss
 - (B) Granite and amphibolite
 - (C) Kyanite-sillimanite-bearing pelite
 - (D) BIF and granite
- **52.** Identify the correct statement using the code below :
 - The western Dharwar Craton is characterised by small linear greenstone belts of high-temperature and low-pressure metamorphic rocks.
 - ii. The Gattihosahalli schist belt is one of the well preserved Sargur type Supracrustal belts of Karnataka.
 - iii. Plagioclase feldspar forms the core in the Rapakivi structure.
 - iv. The Hiriyur formation is essentially made up of volcanic rocks.

Code:

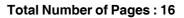
- (A) i and ii are correct
- (B) iii and iv are correct
- (C) i, iii and iv are correct
- (D) ii and iv are correct

- **53.** Match the following and select the correct option using the code given below :
 - i. Holenarasipur 1. Spinifexschist belt texture in metaperidotite
 - ii. Maradihalli 2. Kyanite, staurolite
 - iii. Ghattihosahalli 3. Ultramylonite Belt
 - iv. Bukkapatna 4. Pillow lavas granite

Code:

	i	ii	iii	iv
(A)	3	1	2	4
(B)	2	4	1	3
(C)	4	1	2	3
(D)	1	3	4	2

- 54. The tenor of an ore refers to the
 - (A) percentage of metal in the ore
 - (B) percentage of mineral in the ore
 - (C) percentage of gangue in the ore
 - (D) gangue minerals associated with the ore



- **55.** Which of the following is the best reservoir rock?
 - (A) porous sandstone
 - (B) permeable sandstone
 - (C) fractured marble
 - (D) compact clay
- **56.** Match the following and choose the correct answer using the code given below:
 - i. Diamond
- 1. Gabbro
- ii. Chromium
- 2. Anorthosite
- iii. Platinum
- 3. Kimberlite
- iv. Titano-magnetite 4. Norite and peridotite

Code:

	İ	ii	iii	iv
(A)	2	1	3	4
(B)	3	2	4	1
(C)	4	1	3	2
(D)	4	3	2	1

- **57.** A permeable water-bearing geological formation capable of yielding a copious quantity of groundwater to wells and springs is called an
 - (A) aquifuge
 - (B) aquifer
 - (C) aquiclude
 - (D) aquitard

- **58.** A zone in which all the interstices are filled with ground water under hydrostatic pressure is known as the
 - (A) capillary zone
 - (B) soil water zone
 - (C) saturated zone
 - (D) intermediate zone
- 59. In the Wenner arrangement of electrodes, the distance between potential electrodes is ______ the distance between the current electrodes.
 - (A) less than
 - (B) greater than
 - (C) the same as
 - (D) neither less nor equal to
- portion of the roof intersecting the top of the tunnel wall.
 - (A) Spring line
 - (B) Crest
 - (C) Hinge
 - (D) Snow line

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- **61.** A mass of air or water in motion in the northern hemisphere is deflected
 - (A) to its left
 - (B) to its right
 - (C) above
 - (D) below
- **62.** The gravitational attraction of the Sun and the Moon produces
 - (A) waves
 - (B) currents
 - (C) upwelling
 - (D) tides
- **63.** Upwelling areas are **NOT** associated with high
 - (A) nutrient concentration
 - (B) primary productivity
 - (C) anoxic condition
 - (D) organic matter flux
- **64.** Choose the **Wrong** statement
 - (A) Tsunamis are produced by submarine earthquakes
 - (B) Tsunamis can be felt by people aboard a vessel in the mid-ocean
 - (C) Tsunamis typically are 30 m high and travel at a speed of 900 km per hour
 - (D) Tsunamis are produced by submarine landslides

- **65.** Which of the following is **NOT** a nutrient element in ocean water ?
 - (A) iron
 - (B) phosphorus
 - (C) oxygen
 - (D) carbon
- **66.** In vertical aerial photographs, the principal point, nadir and isocentre
 - (A) coincide occasionally
 - (B) always coincide
 - (C) will not coincide
 - (D) only two of them coincide
- **67.** The _____ wavelength band effectively brings out the land-water contrast.
 - (A) 0.45-0.52 μm
 - (B) $0.52-0.59 \mu m$
 - (C) 0.62-0.68 μm
 - (D) 0.77-0.86 µm
- **68.** Landsat imageries are generally taken from an altitude of
 - (A) 700 km
 - (B) 500 km
 - (C) 300 km
 - (D) 900 km



69.					_	nethod is nvestigati		7
	(A)	magne	tic met	hoc	ł			
	(B)	resistiv	ity met	hoc	t			
	(C)	seismi	c metho	od				
	(D)	gravity	metho	d				
70.	•		to eng	ine		is/are of to select	sites	7
	(A)	Gravity	,					
	(B)	Electro	magne	tic				
	(C)	Resisti	vity and	d s	eisı	mic		
	(D)	Magne	tic					
71.		ch the fo on using	•			elect the c	orrect	7
	i.	Seismi	c meth	od	1.	Resistivi method	ty	
	ii.	Electric			2.	Scintillor	meter	
	iii.	Gravity	metho	d	3.	Gravime	ter	
	iv.	Radioa method	•		4.	Geopho	nes	
	Cod	e :						7
		i	ii	iii		iv		
	(Δ)	4	1	3		2		

3 1

1

3

2 4

4 2

(B) 2

(C) 3

(D) 1

72.		correction is applied to
	mag	netic field data.
	(A)	Latitude
	(B)	Bouguer
	(C)	Terrain drift
	(D)	Free-air
73.		eased CO ₂ concentration in the osphere results in
	(A)	A fall in the earth's temperature
	(B)	An increase in the earth's temperature
	(C)	A uniform earth's temperature
	(D)	A decreased volume of sea water
74.	Α	is used to measure
74.		is used to measure elative humidity of air.
74.	the r	
74.	the r	elative humidity of air.
74.	the r (A) (B)	elative humidity of air. Barometer
74.	the r (A) (B) (C)	elative humidity of air. Barometer Hydrometer
	the r (A) (B) (C) (D)	elative humidity of air. Barometer Hydrometer Hypsometer
	the r (A) (B) (C) (D) Mesage.	elative humidity of air. Barometer Hydrometer Hypsometer Hygrometer
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	the r (A) (B) (C) (D) Mesage. (A) (B)	elative humidity of air. Barometer Hydrometer Hypsometer Hygrometer ohippus is a horse of
	the r (A) (B) (C) (D) Mesage. (A) (B) (C)	elative humidity of air. Barometer Hydrometer Hypsometer Hygrometer ohippus is a horse of Miocene Cretaceous

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ಚಿತ್ತು ಬರಹಕ್ಕಾಗಿ ಸ್ಥಳ Space for Rough Work



ಚಿತ್ತು ಬರಹಕ್ಕಾಗಿ ಸ್ಥಳ Space for Rough Work



ಚಿತ್ತು ಬರಹಕ್ಕಾಗಿ ಸ್ಥಳ Space for Rough Work