### GG: GEOLOGY AND GEOPHYSICS

Duration: Three Hours

Maximum Marks: 100

#### Read the following instructions carefully:

 This question paper contains 24 printed pages including pages for rough work. Please check all pages and report discrepancy, if any.

- 2. Write your registration number, your name and name of the examination centre at the specified locations on the right half of the Optical Response Sheet (ORS)
- 3. Using HB pencil, darken the appropriate bubble under each digit of your registration number and the letters corresponding to your paper code.
- 4. All questions in this paper are of objective type.
- 5. Questions must be answered on Optical Response Sheet (ORS) by darkening the appropriate bubble (marked A, B, C, D) using HB pencil against the question number on the left hand side of the ORS. Each question has only one correct answer. In case you wish to change an answer, erase the old answer completely. More than one answer bubbled against a question will be treated as an incorrect response.
- 6. The paper consists of two parts: Part A and Part B. Part A is common to both Geology and Geophysics candidates. Part B contains two sections: Section 1 (Geology) and Section 2 (Geophysics). Geology candidates will attempt questions in Section 1 only. Geophysics candidates will attempt questions in Section 2 only. Correctly darken the bubble (in the ORS) corresponding to the section attempted by you.
- 7. There are a total of 60 questions carrying 100 marks. Part A consists of 20 questions; all are 1-mark questions. Each of the sections (Section 1 & Section 2) in Part B consists of 40 questions; all are 2-mark questions.
- 8. Questions 51 through 56 (3 pairs) are common data questions and question pairs (57, 58) and (59, 60) are linked answer questions. The answer to the second question of the above 2 pairs depends on the answer to the first question of the pair. If the first question in the linked pair is wrongly answered or is un-attempted, then the answer to the second question in the pair will not be evaluated.
- 9. Un-attempted questions will carry zero marks.
- 10. Wrong answers will carry NEGATIVE marks. For Q.1 to Q.20, ½ mark will be deducted for each wrong answer. For Q. 21 to Q. 56, ¾ mark will be deducted for each wrong answer. The question pairs (Q.57, Q.58), and (Q.59, Q.60) are questions with linked answers. There will be negative marks only for wrong answer to the first question of the linked answer question pair i.e. for Q.57 and Q.59, ¾ mark will be deducted for each wrong answer. There is no negative marking for Q.58 and Q.60.
- 11. Calculator (without data connectivity) is allowed in the examination hall.
- 12. Charts, graph sheets or tables are NOT allowed in the examination hall.
- 13. Rough work can be done on the question paper itself. Additionally, blank pages are given at the end of the question paper for rough work.

GG

# PART A: COMMON TO BOTH GEOLOGY AND GEOPHYSICS CANDIDATES

# Q. 1 – Q. 20 carry one mark each.

Q.1	The Gutenberg discontinuity is located at a depth of around			
	(A) 35 km	(B) 150 km		
	(C) 2900 km	(D) 5000 km		
Q.2	What is the age of the "Barail Series"?			
	(A) Jurassic	(B) Paleocene		
	(C) Oligocene			
Q.3	Thermohaline circulation in the oceans i	s driven by		
	(A) only salinity gradients			
	(B) both temperature and salinity gradier			
	(C) only temperature gradients			
	(D) only density difference			
Q.4	Which one of the following minerals car	anot be used as an abrasive ?		
	(A) Garnet	(B) Corundum		
	(C) Quartz	(D) Gypsum		
Q.5	Which one of the following lakes is interpreted to be of meteoritic impact origin?			
	(A) Lonar Lake	(B) Chilka Lake		
	(C) Kolleru Lake	(D) Pulicat Lake		
Q.6		ures is <b>not</b> related to desert environments?		
	(A) yardang	(B) bajada		
	(C) hamada			
Q.7	Which of the following is located closest			
	(A) Bombay High			
	(B) Lakshwadweep Islands			
	(C) Andaman and Nicobar Islands	Chart, graph shorts or tables me NOI allowed in the		
	(D) Maldives			

					(A) propane and butane (B) methane and ethane (C) methane and butane	
(A) propane and butane	(A) propage and butane	0. 01 1 (A) - 0	(A) propane and butane	(A) propane and butane	(C) methane and butane	(A) propane and butane
(B) methane and ethane	(A) propane and butane	(A) propane and butane			A 18 M. Annual security and the Samuel Manual Committee of the Committee o	
	(A) propane and outaine	(A) propane and outaine	(B) methane and ethane	(B) methane and ethane	(D) ethane and propage	(B) methane and ethane
(C) methane and butane	(B) methane and ethane	(B) chaire and propane	(B) inclianc and emane			
(D) ethane and propage	(A) propane and outaine  (B) methane and ethane  (C) methane and butane  (D) ethane and propane	(A) propane and butane  (B) methane and ethane  (C) methane and butane  (D) ethane and propane	(C) methane and butane (D) ethane and propage	(C) methane and butane  (D) ethane and propage		(C) methane and butane  (D) ethane and propage
(D) ethane and propane	(B) methane and ethane (C) methane and butane (D) ethane and propane	(B) methane and ethane (C) methane and butane (D) ethane and propane	(C) methane and butane (D) ethane and propane	(C) methane and butane (D) ethane and propane	Q.9 Who proposed the principle "the present is the key to the past"?	(C) methane and butane (D) ethane and propane
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Q.9 Who proposed the principle "the present is the key to the past"?  (A) Carl von Linnaeus (B) James Hutton (C) William Smith (D) Alcide d'Orbigny  Q.10 Of the following, which is an ore of nickel?	(A) propage and butane (B) methane and ethane (C) methane and butane (D) ethane and propane  Q.9 Who proposed the principle "the present is the key to the past"?  (A) Carl von Linnaeus (B) James Hutton (C) William Smith (D) Alcide d'Orbigny  Q.10 Of the following, which is an ore of nickel?	(A) propage and butane (B) methane and ethane (C) methane and butane (D) ethane and propane  Who proposed the principle "the present is the key to the past"?  (A) Carl von Linnaeus (B) James Hutton (C) William Smith (D) Alcide d'Orbigny  Q.10 Of the following, which is an ore of nickel?	(C) methane and butane (D) ethane and propane  Who proposed the principle "the present is the key to the past"?  (A) Carl von Linnaeus (B) James Hutton (C) William Smith (D) Alcide d'Orbigny	(C) methane and butane (D) ethane and propane  Who proposed the principle "the present is the key to the past"?  (A) Carl von Linnaeus (B) James Hutton (C) William Smith (D) Alcide d'Orbigny	(A) Carl von Linnaeus (B) James Hutton (C) William Smith (D) Alcide d'Orbigny  Q.10 Of the following, which is an ore of nickel?	(C) methane and butane (D) ethane and propane  Who proposed the principle "the present is the key to the past"?  (A) Carl von Linnaeus (B) James Hutton (C) William Smith (D) Alcide d'Orbigny  Q.10 Of the following, which is an ore of nickel?
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Q.9 Who proposed the principle "the present is the key to the past"?  (A) Carl von Linnaeus (B) James Hutton	(A) propane and butane (B) methane and ethane (C) methane and butane (D) ethane and propane  Q.9 Who proposed the principle "the present is the key to the past"?  (A) Carl von Linnaeus (B) James Hutton	(A) propane and butane (B) methane and ethane (C) methane and butane (D) ethane and propane  Q.9 Who proposed the principle "the present is the key to the past"?  (A) Carl von Linnaeus (B) James Hutton	(C) methane and butane (D) ethane and propane  Who proposed the principle "the present is the key to the past"?  (A) Carl von Linnaeus  (B) James Hutton	(C) methane and butane (D) ethane and propane  Who proposed the principle "the present is the key to the past"?  (A) Carl von Linnaeus  (B) James Hutton	(A) Carl von Linnaeus (B) James Hutton	(C) methane and butane (D) ethane and propane  Who proposed the principle "the present is the key to the past"?  (A) Carl von Linnaeus  (B) James Hutton
Q.9 Who proposed the principle "the present is the key to the past"?	(A) propane and outaine  (B) methane and ethane  (C) methane and butane  (D) ethane and propane  Who proposed the principle "the present is the key to the past"?	(A) propane and butane (B) methane and ethane (C) methane and butane (D) ethane and propane  Q.9 Who proposed the principle "the present is the key to the past"?	(C) methane and butane (D) ethane and propane  Who proposed the principle "the present is the key to the past"?	(C) methane and butane (D) ethane and propane  Who proposed the principle "the present is the key to the past"?	Q.5 Who proposed the principle—the present is the key to the past ?	(C) methane and butane (D) ethane and propane  Q.9 Who proposed the principle "the present is the key to the past"?
(D) ethane and propane	(B) methane and ethane (C) methane and butane (D) ethane and propane	(B) methane and ethane (C) methane and butane (D) ethane and propane	(C) methane and butane (D) ethane and propane	(C) methane and butane (D) ethane and propane	0.9 Who proposed the principle "the present is the key to the past"?	(C) methane and butane (D) ethane and propane
(D) ethane and propage	(A) propane and outaine  (B) methane and ethane  (C) methane and butane  (D) ethane and propane	(A) propane and butane  (B) methane and ethane  (C) methane and butane  (D) ethane and propane	(C) methane and butane (D) ethane and propage	(C) methane and butane  (D) ethane and propage		(C) methane and butane  (D) ethane and propage
	(B) methane and ethane (C) methane and butane	(B) methane and ethane (C) methane and butane	(C) methane and butane	(C) methane and butane	(B) chaire and propane	(C) methane and butane
(C) methane and butane	(B) methane and ethane		(B) inclianc and emane			
The contract of the contract o	(A) propane and outaine	(A) propane and outaine	(B) methane and ethane	(B) methane and ethane	of the state of th	(B) methane and ethane
(B) methane and ethane	(A) propane and butane	(A) propane and butane			(C) methane and butane	
(A) propane and butane	(A) propage and butane	O STATE AND THE PROPERTY OF COLUMN ASSESSMENT OF COLUMN ASSESSMENT ASSESSMENT OF COLUMN ASSES	(A) propane and butane	(A) propane and butane	(C) methane and butane	(A) propane and butane
(C) methane and butane	(B) methane and ethane	(D) chaire and propane	(B) methalic and ethalic			
	(A) propane and outaine	(A) propane and outaine	(B) methane and ethane	(B) methane and ethane	A 18 M. Annual security and the Samuel Manual Committee of the Committee o	(B) methane and ethane
(B) methane and ethane	(A) propane and outane	(A) propane and butane	(B) and a second of the second		A 18 M. Annual security and the Samuel Manual Committee of the Committee o	
(A) propane and outaine	(A) propose and buttons	(A)	(A) propane and outaine	(A) propane and outaine	(C) methane and butane	(A) propane and butane

Q.13	For perfectly conducting medium, skin depth	(III) IS	
	(A) 10 <sup>5</sup>	(B) 100	
	(C) 10	(D) 0	
Q.16	If a planet revolves around the Sun with a po (in terms of distance between Earth and Sun)	eriod of 8 years, then its distance from the Sun wo	ould be
	(A) two times	(B) four times	
	(C) six times	(D) eight times	
Q.17	A vast majority of earthquake sources are oft	en linked to	
	(A) inner core		
	(B) outer core		
	(C) brittle part of the earth's crust		
	(D) molten part of earth's mantle		
Q.18	In paleomagnetism, detrital magnetization is	an important process for study of	
	(A) sedimentary rocks		
	(B) metamorphic rocks		
	(C) basic igneous rocks		
	(D) acidic igneous rocks		
Q.19	A Geiger-Muller counter is used for measuring	ng and meaning (A)	
	(A) gamma radiation		
	(B) alpha particles		
	(C) beta particles		
	(D) both alpha and beta particles		
Q.20	The presence of crustal root beneath a mount	tain chain can be best explained by	
	(A) Pratt's model		
	(B) Airy's model		
	(C) Vening Meinesz model		
	(D) Plume model		
	END C	OF PART A	

### PART B (SECTION 1): FOR GEOLOGY CANDIDATES ONLY

### Q. 21 to Q. 60 carry two marks each.

- 0.21 Which one of the following is a typical Lower Gondwana plant assemblage?
  - (A) Glossopteris, Ptilophyllum, Nilssonia, Bucklandia
  - (B) Glossopteris, Gangamopteris, Schizoneura, Sphenophyllum
  - (C) Gangamopteris, Lycopodites, Brachyphyllum, Nilssonia
  - (D) Vertebraria, Alethopteris, Otozamites, Glossopteris
- Q.22 Which of the following is not correct for a Pelecypod shell?
  - (A) Pedicle is present.
  - (B) Pallial sinus, if present, is on the posterior side.
  - (C) Lunule is towards anterior.
  - (D) Both the valves have teeth and sockets.
- 0.23 Match the following:

Group I	Group II
P. Muschelkalk	
Q. Katrol Formation	2. Miocene
R. Uttatur Stage	3. Middle Triassic
S. Baripada beds	4. Cretaceous
	5. Pleistocene
	6. Late Jurassic
(A) P-3, Q-6, R-5, S-1	(B) P-1, Q-2, R-3, S-4
(C) P-3, Q-6, R-4, S-2	(D) P-6, Q-3, R-1, S-2

#### Q.24 Match the following:

Group I	Group II
P. Pelagic	1. Open ocean
Q. Pycnocline	2. Cold sphere
R. Psychrosphere	3. North Atlantic
S. Humboldt Current	4. Density
	5. Thermocline
	6. East Pacific
(A) P-1, Q-4, R-3, S-6	(B) P-6, Q-2, R-1, S-5
(C) P-5, Q-6, R-1, S-3	(D) P-1, Q-4, R-2, S-6

#### Q.25 Match the following:

### Group II Group I Lower Cambrian P. Globigerina bulloides Echinodermata O. Olenellus Graptolites R. Ambulacrum 3. Upwelling S. Nema Coelenterata Silurian 6. (A) P-1, Q-6, R-2, S-5 (B) P-5, Q-6, R-2, S-3 (C) P-4, O-1, R-2, S-3 (D) P-2, O-4, R-5, S-6 Dinosaurs can be distinguished from the other Mesozoic reptiles by Q.26 (B) Carnivorous habit (A) Large size (D) Sprawling stance (C) Erect stance Which of the following is a polar planktic formanifer? 0.27(A) Globigerenoides rubber (B) Neogloboquadrina pachyderma (C) Globorotalia menardii (D) Orbulina universa Which one of the following mass-wasting processes is designated as a slow flowage type? Q.28 (D) Rockslide (C) Slump (B) Solifluction (A) Mudflow Which of the following accurately describes the rock 'phonolite'? Q.29 (A) Undersaturated ultramafic volcanic rock (B) Undersaturated mafic plutonic rock (C) Undersaturated ultrabasic volcanic rock

(D) Intermediate alkaline plutonic rock

Match the assemblages in Group I with the corresponding metamorphic facies in Group II: Q.30

#### Group I Group II P. Albite-jadeite-glaucophane-lawsonite Greenschist Q. Garnet-orthopyroxene-clinopyroxene-plagioclase Blueschist R. Garnet-muscovite-biotite-sillimanite-quartz 3. Granulite S. Albite-chlorite-epidote-actinolite 4. Amphibolite Zeolite Prehnite-pumpellyite (A) P-1, Q-6, R-2, S-5 (B) P-5, Q-1, R-3, S-4 (C) P-2, Q-3, R-4, S-1 (D) P-3, Q-2, R-1, S-6

- When underplated by mafic magmas, and with no erosion, lower crustal rocks will experience 0.31 during metamorphism.
  - (A) isobaric heating followed by isothermal decompression
  - (B) isothermal compression followed by isobaric heating
  - (C) isobaric heating followed by isothermal compression
  - (D) isobaric heating-cooling trajectory
- Match the minerals in Group I with their characteristic optical properties in Group II: Q.32

Group I	Group II
P. Biotite	1. Uniaxial negative
Q. Sodalite	2. Mottled extinction
R. Nepheline	3. Uniaxial positive
S. Quartz	4. Isotropic, low relief
	5. Isotropic, high relief
	6. Biaxial negative
(A) P-5, Q-1, R-3, S-6	(B) P-6, Q-2, R-5, S-1
(C) P-3, Q-2, R-4, S-5	(D) P-2, Q-4, R-1, S-3

- Q.33 A single slice of rock bound by thrust faults on all sides is called a
  - (A) horse

(B) pop-up structure

(C) duplex

- (D) graben
- Q.34 A strike-slip dip fault strikes 30°N, and dips 45°SE. The net slip of the fault plunges
  - (A) 30° towards 45°N

(B) 0° towards 30°N

(C) 45° towards 120°N

(D) 90° towards 30°N

Q.35	The boundary between the Indian an	d Eurasian plates is the			
	(A) Main Central Thrust				
	(B) Main Boundary Thrust				
	(C) South Tibetan Detachment Zone				
	(D) Indus-Tsangpo Suture Zone				
	3. Gripp Reducing M.				
Q.36	Plagioclase feldspars belong to the _	crystal system.			
	(A) Triclinic	(B) Monoclinic			
	(C) Orthorhombic	(D) Rhombic			
Q.37	The plane by which twinned crystals				
	(A) mirror plane	(B) twin plane			
	(C) glide plane	(D) composition plane			
Q.38	In satellite remote-sensing, the speci	tral bands near 1.4 µm and 1.9 µm are avoided because of			
	(A) absorption due to H <sub>2</sub> O and CO <sub>2</sub>	in the atmosphere			
	(B) absorption due to ozone layer in	the atmosphere			
	(C) absorption due to nitrogen in the	e atmosphere			
	(D) absorption by vegetation				
Q.39	Formation of chromitite from a basa	altic magma can be explained by			
	(A) liquid immiscibility	(B) assimilation			
	(C) magma mixing	(D) Soret effect			
Q.40	Match the following economic deposits in Group I with their places of occurrences in Group II:				
2.10					
	Group I	Group II			
	P. Bauxite	1. Naliya			
	Q. Phosphorite	2. Maldeota			
	R. Magnesite	3. Pahalgam			
	S. Barite	4. Salem			
		5. Mangampeta			
		6. Belgaum			
	(A) P-1, Q-2, R-4, S-5	(B) P-2, Q-3, R-4, S-6			
	(C) P-3, Q-1, R-6, S-5	(D) P-6, Q-2, R-4, S-5			

Q.41	What is the host rock for sulphic	de mineralization in Rampura-Agucha belt ?		
	(A) Graphitic mica schist			
	(B) Garnetiferous mica schist			
	(C) Graphitic biotite-sillimanite	gneiss		
	(D) Garnetiferous sillimanite-fe	parameter to aprecibel amuse is a bupped assu-		
		onod-gaired (3) at an industrial for the above sedimentary second		
Q.42	Which of the following is the co	errect order of decreasing permeability?		
	(A) silty sandstone > siltstone >	sandstone > pebbly sandstone		
	(B) siltstone > silty sandstone >	sandstone > pebbly sandstone		
	(C) pebbly sandstone > sandston	ne > silty sandstone > siltstone		
	(D) pebbly sandstone > sandston	ne > siltstone > silty sandstone		
Q.43	Which of the following varieties	s of coal has the least H/C ratio ?		
	(A) peat	(B) lignite		
	(C) bituminous	(D) anthracite		
Q.44	What is the age of the reservoir rock in the Cambay basin?			
	(A) Eocene	(B) Oligocene		
	(C) Miocene	(D) Paleocene		
Q.45	Which one of the following can	be considered the best cap rock for oil and gas tra	aps ?	
	(A) chert	(B) evaporite		
	(C) sandstone	(D) shale		
Q.46	A negative Eu anomaly will dev	elop in a fractionating magma following separation	on of	
	(A) garnet	(B) olivine		
	(C) plagioclase	(D) orthopyroxene		
Q.47	In which of the following island	s is the Mid-oceanic ridge exposed above sea-leve	el?	
	(A) Japan	(B) Seychelles		
	(C) Hawaii	(D) Iceland		

- Q.48 \_\_\_\_\_ dams are constructed where the foundation rock is strong.
  - (A) Gravity

(B) Arch

(C) Buttress

- (D) Earth
- Q.49 Which type of cross-bedding is a definite indicator of tidal currents?
  - (A) epsilon cross-bedding

(B) herring-bone cross-bedding

(C) hummocky cross-bedding

- (D) trough cross-bedding
- Q.50 Which type of sedimentary basin is formed close to continent-continent collisional settings?
  - (A) Fore-arc basin

(B) Peripheral foreland basin

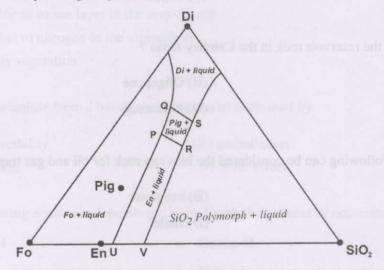
(C) Back-arc basin

(D) Retro-arc foreland basin

### **Common Data Questions**

#### Common Data for Questions 51 and 52:

A rock contains 65% forsterite (Fo), 27% enstatite (En) and 8% pigeonite (Pig) and its melting relationships at 1 bar can be represented by the figure given below:



- Q.51 The name of the rock is
  - (A) Lherzolite

(B) Harzburgite

(C) Wehrlite

- (D) Dunite
- Q.52 On partially melting this rock, the first melt will have the composition of point
  - (A) P

(B) Q

(C) R

(D) S

#### Common Data for Questions 53 and 54:

An unfossiliferous sedimentary succession is characterized by the following features -

- (i) sandstone-shale alternation, with sheet-like geometry of the sandstone beds; (ii) the sandstones exhibit graded bedding; (iii) erosional structures under the sandstone beds; (iv) convolute lamination, and (v) ripple marks on the sandstone beds.
- Q.53 Which depositional environment is indicated for the above sedimentary succession?
  - (A) Fluvial

(B) Eolian

(C) Intertidal

- (D) Deep marine
- Q.54 What type of paleocurrent pattern is expected from the erosional structures in the succession?
  - (A) Unimodal

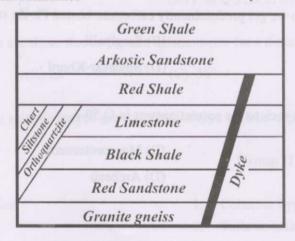
(B) Bimodal

(C) Bimodal - bipolar

(D) Polymodal

#### Common Data for Questions 55 and 56:

Examine the given geological section, which contains sedimentary successions interrupted by a dyke, and which contains no tectonic discontinuities.



- Q.55 How many unconformities can be identified in the section?
  - (A)3

(B) 4

(C) 5

(D) 6

- Q.56 Which of the following contacts is a nonconformity?
  - (A) Granite gneiss Red Sandstone
  - (B) Black Shale Limestone
  - (C) Limestone Red Shale
  - (D) Red Shale Arkosic Sandstone

### Linked Answer Questions

#### Statement for Linked Answer Questions 57 and 58:

Microfossils may have different test composition.

- Q.57 Which of the following is a siliceous microfossil group?
  - (A) Conodonts

(B) Radiolaria

(C) Dinoflagellates

- (D) Foraminifera
- Q.58 What is the preferred microhabitat of the microfossil group that is the correct answer in Q.57?
  - (A) Benthic

(B) Planktic

(C) Nektic

(D) Nektobenthic

#### Statement for Linked Answer Questions 59 and 60:

Pb-Zn sulphide deposits can form in different types of host rocks.

- Q.59 Of the following, where do we get predominantly carbonate-hosted Pb-Zn sulphide deposits?
  - (A) Mochia Zawar

(B) Sargipalli

(C) Pur - Banera

- (D) Sindesar-Khurd
- Q.60 What is the age of the host rock to the correct answer in Q.59?
  - (A) Neoproterozoic

(B) Mesoproterozoic

(C) Paleoproterozoic

(D) Archean

END OF SECTION 1 OF PART B

## PART B (SECTION 2): FOR GEOPHYSICS CANDIDATES ONLY

### Q. 21 to Q. 60 carry two marks each.

Q.21 Match the following functions in time-domain with their fourier spectra:

Group I

P. 
$$\Pi(t) = \begin{cases} 1, -1/2 \le t \le 1/2 \\ 0, t < -1/2 \text{ and } t > 1/2 \end{cases}$$

- Q. Dirac delta function,  $\delta$  (t)
- R.  $x(t)=e^{-|t|}$
- S.  $\Lambda(t) = \begin{cases} 1+t, -1 < t < 0 \\ 1-t, 0 < t < 1 \\ 0, otherwise \end{cases}$
- (A) P-2, Q-3, R-1, S-4
- (C) P-1, Q-4, R-2, S-3

- Group II
- 1.
- 2.  $\frac{\sin(\pi f)}{f}$ , where f is frequency
- 3.  $\frac{2}{1+4\pi^2 f^2}$ , where f is frequency
- 4.  $\frac{\sin^2(\pi f)}{f^2}$ , where f is frequency
- (B) P-1, Q-3, R-2, S-4
- (D) P-2, Q-1, R-3, S-4
- Q.22 The teleseismic rays are those that arrive at a seismometer for a distance greater than
  - (A)  $18^{\circ}$
- (B) 28°
- (C) 38°
- (D) 48°
- O.23 Match the following seismic source generated noise type with its appearance on the seismogram:

Group I

- P. Reverberation
- Q. Multiples
- R. Guided waves
- S. Diffractions

- Group II
- 1. Coherent hyperbolic events
- 2. Tails on reflected events
- 3. Events paralleling first breaks
- 4. Reflections at even time intervals after the primary reflections

- (A) P-1, Q-3, R-2, S-4
- (C) P-2, Q-4, R-3, S-1

- (B) P-3, Q-4, R-2, S-1
- (D) P-4, Q-1, R-3, S-2
- Q.24 Which is the parameter for measuring the size of the earthquake that does not need an instrumental record?
  - (A) Richter Magnitude

(B) Intensity

(C) Moment

(D) M<sub>W</sub>

The standard form of wave equation for propagation of cubical dilatation  $(\theta)$  is

$$\rho \frac{\partial^2 \theta}{\partial t^2} = (\lambda + 2\mu) \nabla^2 \theta.$$

The compressional wave velocity is given by

(A) 
$$\sqrt{\frac{2\lambda + \mu}{\rho}}$$
 (B)  $\sqrt{\frac{\lambda + 2\mu}{2\rho}}$  (C)  $\sqrt{\frac{\lambda + \mu}{\rho}}$ 

(B) 
$$\sqrt{\frac{\lambda + 2\mu}{2\rho}}$$

(C) 
$$\sqrt{\frac{\lambda + \mu}{\rho}}$$

(D) 
$$\sqrt{\frac{\lambda + 2\mu}{\rho}}$$

PKIKP is a seismic body wave which travels through Q.26

- (A) upper mantle
- (B) upper and lower mantle
- (C) mantle, outer core and inner core
- (D) mantle and outer core

A seismic signal is recorded in a frequency band, 50-100 Hz. The sampling interval (ms) to avoid Q.27 aliasing would be

(A)5

(B) 10

- (C) 15
- (D) 20

The minimum appreciable amplitude recorded by a seismometer is 0.2 mm and the maximum one 0.28is 20.0 cm, then the dynamic range in dB is

- (A) 80
- (B) 60

(C)40

(D) 20

Q.29 Match the following:

### Group I

### Group II

- P. Primary wave
- Q. Secondary wave
- R. Rayleigh wave
- S. Love wave

- Propagate along surface of the medium
- Particle motion is orthogonal to direction of propagation
- Particle motion describes a retrograde ellipse 3.
- Particle motion in the direction of propagation
- (A) P-3, Q-4, R-1, S-2
- (C) P-1, Q-3, R-2, S-4

- (B) P-1, Q-4, R-2, S-3
- (D) P-4, Q-2, R-3, S-1

- Q.30 Which of the following is a minimum-phase wavelet? The first value in each case is at time zero.
  - $(A) \{-2, 5, -2\}$

(B) {-2, 5, 2}

(C)  $\{6, -1, -2\}$ 

- (D) {3, 4, -4}
- Q.31 In a gas zone, true porosity  $\phi_t$ , neutron log  $\phi_n$  and density derived porosity  $\phi_d$  are related as
  - (A)  $\phi_n < \phi_d > \phi_d$

(B)  $\phi_n > \phi_d > \phi_d$ 

(C)  $\phi_n > \phi_d = \phi_t$ 

- (D)  $\phi_n < \phi_d = \phi_t$
- Q.32 Identify the equation for formation water resistivity ( $Rw_e$ ) estimation from SP log, wherein SSP, K(T) and  $R_{mfe}$  are respectively static SP, temperature dependent coefficient and mudfiltrate resistivity.
  - (A)  $SSP = -Rw_e \log(\frac{K(T)}{Rmf_e})$
  - (B)  $SSP = -K(T)\log(\frac{Rw_e}{Rmf_e})$
  - (C)  $SSP = -Rmf_e \log(\frac{K(T)}{Rw_e})$
  - (D)  $SSP = -K(T)\log(\frac{Rmf_e}{Rw_e})$
- Q.33 Gamma ray detected in density log is
  - (A) natural gamma present in the formation
  - (B) gamma ray from epithermal neutron source
  - (C) gamma ray scattered from the formation
  - (D) gamma ray emitted from neutron capture reaction
- Q.34 In Turam method, one measures the reduced field ratio of the amplitude and of the phase difference between the two coils. In the absence of subsurface conducting body, the response is characterized as
  - (A) the successive reduced field ratio is equal to 1.0 and phase difference is 0°
  - (B) the successive reduced field ratio is equal to 1.0 and phase difference is 45°
  - (C) the successive reduced field ratio is equal to 0.5 and phase difference is 90°
  - (D) the successive reduced field ratio is equal to 0.5 and phase difference is 60°

- Q.35 Electric field  $(\vec{E})$  through a polarizable dielectric medium with polarization vector  $(\vec{P})$ , electric susceptibility  $(\chi_e)$  and dielectric permittivity  $(\varepsilon_0)$ . The electric displacement vector  $(\vec{D})$  for the medium can be written as
  - (A)  $\vec{D} = \varepsilon_0 (1 + \chi_e)$

(B)  $\overrightarrow{D} = \varepsilon_0 \overrightarrow{E} - \overrightarrow{P}$ 

(C)  $\vec{D} = \varepsilon_0 \vec{E} + \chi_e$ 

- (D)  $\overrightarrow{D} = \varepsilon_0 \overrightarrow{E} + \overrightarrow{P}$
- Q.36 Using different electrodes configuration, maximum depth of investigation is achieved in
  - (A) Schlumberger

(B) dipole

(C) tri-electrodes

- (D) Wenner
- Q.37 Relevant differential equation to study low frequency electromagnetic prospecting for a conducting target can be written in the form of
  - (A) Wave equation

(B) Laplace's equation

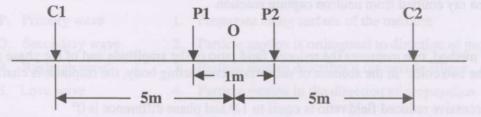
(C) Helmholtz equation

- (D) Poisson's equation
- Q.38 In a layered medium, if the basement is perfectly conducting, magnetotelluric phase response asymptotically approaches to
  - (A) 0°

(B) 45°

(C) 60°

- (D) 90°
- Q.39 Magnetotelluric spectral impedance can be defined as
  - (A) the ratio of the spatial spectrum from mutually orthogonal horizontal components of the electric and magnetic field
  - (B) the ratio of the spatial spectrum of the vertical component to the horizontal component of magnetic field
  - (C) the ratio of the spatial spectrum of the vertical component to the horizontal component of electric magnetic field
  - (D) the ratio of the spatial spectrum of the two horizontal components of electric field
- Q.40 Following four electrodes array: P1, P2 are measuring electrodes and C1, C2 are current electrodes used in resistivity measurement. Inter-electrode separation is also shown in figure.



The above electrode configuration is

(A) radial dipole

(B) parallel dipole

(C) Schlumberger

(D) Wenner

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Q.41	In DC resistivity m	nethod, direct filter coeff	icients are used to comp	oute
	(A) apparent resis	tivity data from resistivit	ty transform	
	The Court of	sform from apparent res		
	(C) apparent resis	tivity from measured pot	ential difference	
	(D) apparent resis	tivity from one electrode	configuration to other	electrode configuration
Q.42		f 15,100 counts per min nt rate (counts per minut		diation counter having a dead time of d time would be
	(A) 13,333	(B) 14,333	(C) 15,333	(D) 16,333
Q.43	The output of a lin an input {-2, 1}?	near and invariant systen	n for a unit input is {3, 1	1}. Then what would be the output for
	(A) {-6, 1, 1}	(B) {-1, 1, 6}	(C) {-1, 6, 1}	(D) {1, -1, 6}
Q.44	Geophysical inver	rse problems are describe		
	(A) Fredholm's in	tegral equation of first k	ays a deminant role bri	
		tegral equation of second		
		nation of second kind	Anna	
	(D) Legendre equa			
	mark mark and another	ly over a 2-D-line materal		
Q.45	Spot the ANN me	thod from the following	This street be a series of the	
	(A) Singular value	e decomposition		
	(B) Monte-Carlo	technique		
	(C) Ridge regress	ion procedure		
	(D) Back propaga	tion technique		
Q.46	The concept of re	solving kernel is used in		
	(A) Tikhonov's re	egularization method		
	(B) Ridge regress	ion method		

(C) Backus-Gilbert method

(D) Simulated annealing method

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Q.47	For underwater gravity measurer	ments, the following correction is needed:
	(A) Prey correction	
	(B) Free-air correction	

- Q.48 The source of magnetic anomalies extend up to
  - (A) upper mantle
  - (B) core-mantle boundary

(C) Bouguer correction(D) Isostatic correction

- (C) lower mantle
- (D) Curie-point isotherm
- Q.49 In magnetic prospecting scalar magnetometers are used. Then, the prime assumption involved in magnetic data acquisition is
  - (A) remnant magnetization is predominant
  - (B) both remnant and induced magnetization are responsible
  - (C) induced magnetization plays a dominant role
  - (D) only diamagnetic sources are responsible
- Q.50 Source of main geomagnetic field is best represented by
  - (A) a system of electric currents at core-mantle boundary
  - (B) a system of dipoles, quadrupoles, octupoles and multipoles
  - (C) an inclined geomagnetic dipole at center of earth
  - (D) a system of currents in the ionosphere

### **Common Data Questions**

### Common Data for Questions 51 and 52:

In a resistivity sounding experiment using Schlumberger configuration the apparent resistivity function asymptotically approaches a sloping straight line of slope 45° with abscissa.

- Q.51 From the above data it can be inferred that the basement is
  - (A) Perfectly conducting

(B) Relatively resistive

(C) Relatively conducting

(D) Perfectly resistive

- Q.52 If the intercept at  $\rho_a = 1$  ohm-m is 5 and resistivity of top layer is 10 ohm-m, then the depth of basement is
  - (A) 50.0 m

(B) 5.0 m

(C) 2.0 m

(D) 0.5 m

### Common Data for Questions 53 and 54:

In a seismic refraction experiment involving a two-layered earth of P-wave velocities, 3 km/sec and 4.5 km/sec the delay time is found to be 49.69 m sec.

- O.53 From the above data, the depth to the interface is given by
  - (A) 150 m

(B) 120 m

(C) 100 m

- (D) 50 m
- Q.54 Using the above depth, the computed critical distance (m) would be
  - (A) 151.20

(B) 178.88

(C) 221.67

(D) 169.87

### Common Data for Questions 55 and 56:

The peak gravity anomaly over a 2-D line mass of circular cross-section (horizontal cylinder) of density contrast 500 kg/m<sup>3</sup> is 1.674 mgal. The anomaly decreases to 0.837 m gal at a distance of 500 m along a principal profile. The universal gravitation constant,  $G = 6.6667 \times 10^{-11}$  m<sup>3</sup> sec<sup>-2</sup>kg<sup>-1</sup>.

- Q.55 The depth (m) to center of line mass and radius (m) of the horizontal cylinder are
  - (A) 500, 199.80

(B) 200, 150.93

(C) 200, 100.33

- (D) 100, 60.37
- Q.56 Hence compute the excess mass per unit length (kg/m) of the line mass
  - (A)  $11.0 \times 10^7$

(B)  $9.0 \times 10^7$ 

(C)  $6.27 \times 10^7$ 

(D)  $3.67 \times 10^7$ 

## **Linked Answer Questions**

# Statement for Linked Answer Questions 57 and 58:

Resistivity log recorded using normal device with measuring electrode, M, is situated close to the current electrode, A, in logging device placed in borehole. A constant current, I, injected from current electrode into the formation.

Q.57 If the spacing between A and M is r, and the potential difference  $\Delta V$  is measured between the measuring electrode, M and remotely placed surface electrode. Then the expression for the apparent resistivity can be written as

(A) 
$$\rho_a = \frac{2\pi r}{I} \Delta V$$

(B) 
$$\rho_a = \frac{4\pi r^2}{I} \Delta V$$

(C) 
$$\rho_a = \frac{2\pi r^2}{I} \Delta V$$

(D) 
$$\rho_a = \frac{4\pi r}{I} \Delta V$$

Q.58 If r = 0.40 m; I = 0.02 amp;  $\Delta V = 0.04$  volt, then the measured apparent resistivity will be

Statement for Linked Answer Questions 59 and 60:

Given the wavelets,  $a=\{3, -2\}$  and  $b=\{1, -2\}$ 

Q.59 The cross-correlation,  $\phi_{ab}$ , is given by

(A) 
$$\{-6, 7, -2\}$$

(B) 
$$\{-6, 10, -12\}$$

(C) 
$$\{-4, -11, -6\}$$

Q.60 The inverse of wavelet 'a', W<sub>a</sub><sup>-1</sup> is given by

END OF THE QUESTION PAPER