2022 XI 21		0230	Seat No.				
Time : 1½ Hours		<u>FIRST-TERM</u> Subject Code	G	EOL	OG	Y	
		H 4 7 0 6					
Total No. of Questie	o ns: 4	10 (Printed Pages : 12)	Maxi	mum	Mar	ks	: 40
INSTRUCTIONS :	(<i>i</i>)	This paper contains 40 g	uestions car	rying	l mai	rk e	ach.
	(ii)	Every question has four	choices for i	ts ans	wer ((A),	(B),
		(C), (D) and only one of	of them is co	orrect	answ	ver.	
	(iii)	On the OMR sheet, for	each questio	n nun	nber,	dar	·ken
		with a ball point pen ON	ILY ONE bul	bble co	orresp	oono	ling
		to what you consider to k	be the most a	ppropr	riate	ansv	wer,
		from among the four c	hoices.				
	(iv)	Please note that it is	not possib	le to	chan	ge	the
		answer once you hav	e filled up	the b	ubbl	e w	vith
		a ball point pen. Her	nce sufficie	nt ca	re m	ust	; be
		taken while darkeni	ng the bul	bbles.			
	(<i>v</i>)	For each question, you	will be awar	rded C	ONE :	mar	rk if
		you have darkened only	y the bubble	e corre	espon	ding	g to
		the correct answer. In a	ll other cases	s, you	will g	get :	zero
		mark. There is no ne	egative ma	rk.			
	(vi)	Only one OMR sheet w	vill be provid	ded.			
	(vii)	Use only Black or Blue	e ball point	pen.			

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H-4706 [FT]

- 1. When the plunge of fold is zero, then the axis of the fold is said to be 1
 - (A) Vertical
 - (B) Horizontal
 - (C) Inclined at 60° to the horizontal
 - (D) Inclined at 60° to its normal
- 2. Folds characterized by well-defined, sharp hinge points are called 1
 - (A) Conjugate folds
 - (B) Chevron folds
 - (C) Cuspate folds
 - (D) Cylindrical folds
- 3. Match list I with list II and select the *correct* answer using the codes given below the lists : 1

	List I		List II
(<i>a</i>)	Axis of fold	(1)	Angle which axis makes with the horizontal plane
(<i>b</i>)	Plunge of fold	(2)	Line drawn parallel to the hinge line of fold
(<i>c</i>)	Crest	(3)	Lowest point in a down arched fold
(d)	Trough	(4)	Highest point in a up arched fold
Cod	es :		
(A)	(a)- (2) , (b) - (1) , (c) - (4) , (d) - (3)	3)	
(B)	(a)-(1), (b)-(4), (c)-(2), (d)-(3)	3)	

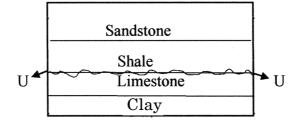
- (C) (a)-(3), (b)-(2), (c)-(1), (d)-(4)
- (D) (a)-(4), (b)-(1), (c)-(2), (d)-(3)

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4.	Reverse fault with very shallow dipping fault planes (< 10 degree) are called				
	•••••		1		
((A)	Normal fault			
((B)	Strike-slip fault			
((C)	Dip-slip fault			
((D)	Thrust fault			
5.	Which	n of the following is complimentary to the dip ?	1		
((A)	Strike			
((B)	Hade			
((C)	Rake			
((D)	Pitch			
6.	Shortening of the Earth's crust is accommodated by 1				
((A)	Folds and Joints			
((B)	Normal and Reverse fault			
((C)	Folds and Reverse fault			
((D)	Folds and Normal fault			
7. 7	The main varieties of coal in correct order from low to high carbon content				
:	are		1		
((A)	Peat, Anthracite, Bituminous, Lignite			
((B)	Anthracite, Bituminous, Lignite, Peat			
((C)	Peat, Lignite, Bituminous, Anthracite			
((D)	Bituminous, Peat, Lignite, Anthracite			
H-4706	5 [FT]	3	P.T.O.		

8.		Choose the <i>correct</i> chemical formula for Chalcopyrite				
		(A)	CuFeS_2			
		(B)	$Cu_2Co_3(OH)_2$			
		(C)	$CaSO_4 - 2H_2O$			
		(D)	$Al_2O_32H_2O$			
	9.	The plunge of a fold means				
		(A)	Inclination of hinge line with horizontal			
		(B)	Average inclination of both limbs and horizontal			
		(C)	Inclination of fold crest line with horizontal			
		(D)	Inclination of fold axis with horizontal			
	10.	If the	e heave of the fault is zero, then the fault is	1		
		(A)	High angle fault			
		(B)	Low angle fault			
		(C)	Horizontal fault			
		(D)	Vertical fault			
	11.	Joint	s which run in a direction that lies between the strike and dip directi	on		
		of the	e rock beds, are called	1		
		(A)	Strike joint			
		(B)	Dip joint			
		(C)	Oblique joint			
		(D)	Bedding joint			

12. From the given diagram identify the type of structural feature.



- (A) Reverse fault
- (B) Angular unconformity
- (C) Non-conformity
- (D) Disconformity

13. The true dip of a bed is N25°W, the strike direction of that will be 1

- (A) N65°E
- (B) S55°E
- (C) S65°E
- (D) N70°W

14. Which of the following indicates an unconformity ?

- (A) Sandstone
- (B) Conglomerate
- (C) Shale
- (D) Grit

H-4706 [FT]

P.T.O.

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15. Among the following which mineral occurs as placer deposit ?

- (A) Psilomelane
- (B) Magnetite
- (C) Bauxite
- (D) Galena

 When gravity is the agency involved in placing economic deposits, the deposit is called

- (A) Beach placers
- (B) Alluvial placers
- (C) Aeolian placers
- (D) Deluvial placers
- 17. In Orissa iron ore are located in
 - (A) Mayurbhanj district
 - (B) Keonjhar district
 - (C) Both (A) and (B)
 - (D) Koraput district

18. Which state has the only diamond mine in the country ?

- (A) Kerala
- (B) Madhya Pradesh
- (C) Karnataka
- (D) Bihar

H-4706 [FT]

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19. Deposits that were formed after the formation of host rocks are called 1

- (A) Placer deposit
- (B) Epigenetic deposit
- (C) Metamorphic deposit
- (D) Syngenetic deposit
- 20. Which among the following is *not* the essential condition for hydrothermal deposits ?
 - (A) Highly active fluid
 - (B) Suitable pathways
 - (C) Highly enriched fluid
 - (D) Highly inactive fluids

21. The ore mineral which shows non-metallic lustre is 1

- (A) Hematite
- (B) Galena
- (C) Bauxite
- (D) Magnetite

22. The streak exhibited by a mineral Hematite is 1

- (A) Black
- (B) Green
- (C) Cherry red

(D) Blue

H-4706 [FT]

P.T.O.

23. Economically the most important formation of Goa group of rocks is 1

- (A) Vageri formation
- (B) Sanvordem formation
- (C) Barcem formation
- (D) Bicholim formation
- 24. An ore mineral in oxide form is

1

- (A) Galena
- (B) Chalcopyrite
- (C) Psilomelane
- (D) Pyrite

25. Which of the following would act as a cap rock in case of oil trap ? 1

- (A) Sandstone
- (B) Laterite
- (C) Limestone
- (D) Shale

26. Gash veins are typically seen in

1

- (A) Limestone
- (B) Laterite
- (C) Sandstone
- (D) Granite

27.	An ex	xample of early formed segregation deposit is	1
	(A)	Chromium	
	(B)	Titanium	
	(C)	Aluminium	
	(D)	Laterite	
28.	Best	example of a crystallized ore mineral is	1
	(A)	Fluorite	
	(B)	Zircon	
	(C)	Calcite	
	(D)	Galena	
29.	If an	igneous rock consists of quartz in large quantity, the rock could	be
			1
	(A)	Basalt	
	(B)	Rhyolite	
	(C)	Gabbro	
	(D)	Dunite	
30.	Pearl	y lustre in phyllite is attributed to the presence of	1
	(A)	Orthoclase	
	(B)	Muscovite	
	(C)	Quartz	
	(D)	Olivine	
H-470)6 [FT	9 P.T.	О.

Which among the following rocks shows granulose structure ? 31. 1 (A) Marble Gneiss (B) (C) Chlorite schist (D) State 32. A very coarse grained clastic sedimentary rock of varied composition is termed as 1 (A) Arenaceous rock (B) Argillaceous rock (C) Calcareous rock (D) Rudaceous rock In porphyritic texture the large crystal is termed as 33. 1 (A) Oikocryst (B) Phenocryst (C) Xenolith (D) Chadocryst 34. Volcanic equivalent of rock gabbro is 1 (A) Basalt (B) Granite (C) Rhyolite (D) Trachyte 35. Which among the following is not a mafic minearl? 1 (A) Amphibole (B) Mica (C) Pyroxene (D) Plagioclase

36. A rudaceous rock with angular clasts from the following is 1

- (A) Conglomerate
- (B) Sandstone
- (C) Granite
- (D) Breccia
- 37. Sedimentary rock likely to be associated with Bauxite is 1
 - (A) Shale
 - (B) Laterite
 - (C) Limestone
 - (D) Sandstone
- 38. When granite undergoes contact metamorphism the net result may be 1
 - (A) Marble
 - (B) Schist
 - (C) Gneiss
 - (D) Phyllite

39. Which of the following best shows the increasing grade of metamorphism ? 1

- (A) Shale-schist-slate-phyllite
- (B) Schist-slate-phyllite-shale
- (C) Shale-slate-phyllite-schist
- (D) Phyllite-slate-schist-phyllite
- - (A) Ferruginous sandstone
 - (B) Calcareous sandstone
 - (C) Siliceous sandstone
 - (D) Shelly limestone

H-4706 [FT]

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