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(c)

Seismic method

COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2011

Roll Number

GEOLOGY, PAPER-II

TIME ALLOWED:			`	Γ-I MCQs)	30 MINU		MAXIMUM MARKS: 20						
THREE HOURS			(PART			RS & 30 MINU'		MAXIMUM MARKS: 80					
NOTE: (i) First attempt PART-I (MCQs) on separate Answer Sheet which shall be taken back after 30													
minutes. (ii) Overwriting/cutting of the options/answers will not be given credit.													
(ii) Ord writing/cutting of the options/answers will not be given election.													
(PART-I MCQs) (COMPULSORY)													
Q.1.	. Sel	lect the best	option/a	nswer and fill	in the app	oropriate box o	n the A	Answer Sheet	. ((1 x 20=20)			
(i)	The o	quality of co	al of Th	ar coal deposit	s is:								
	(a)	Anthraciti	c (b)	Bituminous	(c)	Lignitic	(d)	Sub-bitumino	us (e) All of these			
(ii)	Lipti	nite type of	maceral	group, after m	aturation i	is capable to gen	erate:						
	(a)	Condensat	e (b)	Oil	(c)	Gas	(d)	Coal	(e)	None of these			
(iii)	Dolo	mite deposi	ts of Jha	mpir (Sindh) o	ccur in:								
	(a)	Laki Form	ation		(b)	Nari Formatio	n						
	(c)	Dungan Fo	ormation	<u>l</u>	(d)	Kirthar Forma	tion		(e) All of these			
(iv)	The l	neavy miner	als, Zirc	on, Rutile and	Apatite ar	re found in:							
	(a)	Sand and S	Sandston	ie	(b)	Chalk and Lin	neston	e					
	(c)	Kaolinite :	and Clay	rstone	(d)	Ch <mark>lor</mark> ite and C	laysto	ne	(e)	None of these			
(v)	Duri	ng geo <mark>log</mark> ica	ıl ma <mark>ppi</mark> i	ng the following	ng can be u	used <mark>as</mark> bas <mark>e m</mark> aj	p:						
	(a)	Toposheet			(b)	Aerial Photog							
	(c)	Satellite In	nage		(d)	Habitation ma	p (e) All of thes	se				
(vi)	Hem	imorphite, F	ranklini	te and Smithso	onite are or	res of:							
, ,	(a)	Cu	(b)	Ti	(c)	Cr	(d	l) Zn	(e)	None of these			
(vii)	Follo	wing is a ve	ery well i	proven reservo	oir rock in	Lower Indus Ba	•		` ′				
` /	(a)	Gaj Forma	•	(b) Nari Fo		(c) Goru Form							
	(d)	Parh Lime	stone	` '	(e)	None of these							
(viii)	F. H.				` '	the famous boo		the subject:					
	(a)	Geomorph		1	(b)			3					
	(c)	Stuctural (•		(d)	Engineering G		/	(e)	None of these			
(ix)	` ′			wer Sindh was	` '				(-)				
(222)	(a)	1991	(b)	1981	(c)	1971	(d	l) 1961	(e)	None of these			
(x)		ak dam is b	` ′	-, -,		-,,-	(3	-, -, -,					
(11)	(a)			Kurram Rive	er (c)	Gomal River	(d)	Swat River	(e)	None of these			
(xi)			` /	posits occur at	` '		(u)	Swat Idver	(0)	Trone of these			
(A1)	(a)	Chagai		Kohistan	(c)	Raskoh	(d)	Muslimbagl) (<u>a</u>)	All of these			
(vii)		•	` ′			ost suitable for lo		O	` ,				
(AII)		ganese?	owing p	rospecting inc	uiou is iiio	ist suitable for it	, canng	, 113003103, 1 y	111101110	anu			
	(a)	Air-born n	nagnetic	survey	(b)	Ground magne	etic su	rvey					

(d) Electrical Resistivity method

(e) All of these

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(xiii)	To obtain information about magnetic minerals from Stereogram/Stereopair following instrument is used:												
	(a)	Stereometer	(b)	Magneton	meter	(c)	Resistivit	ymeter					
	(d)	Seismometer	(e)	None of t	hese								
(xiv)	Following rocks are not suitable as construction materials due to ASR and ACR hazards respectively:												
	(a) Granite and Diorite (b)						Polomite and Calcite						
	(c) Andesite and Dolomite (d) Basalt and Gabbro (e) None of these												
(xv)	Presence of Pegmatite is especially an indicator of possible occurrence of:												
	(a)	a) Base-metals				(b) Radioactive minerals							
	(c)	c) Magnetic minerals				((d) Non-metals (e) All of						hese
(xvi)	For exploration and determination of underground water quality most suitable method is:												
	(a)	Seismic	(b)	Magnetic		(c)	Geochen	nical	(d)	Resistiv	ity (e)	None	of these
(xvii)	If a map shows distribution of rocks and other geological materials (features also) of different ages over the Earth's surface or below, it is known as:												
	(a)	Topographic Map					Geological Map						
	` '	Physiographic Map					Mine-Su	•	-		(-)	lone of	
xviii)	A map which shows the surface contours on an imaginary surface to which water would rise in a drilled well is termed as:												
		Piezometric Contour Map					Groundwater Contour Map						
	` ′	· <u> </u>					Sonometric Contour Map (e) All of these						
(xix)		ving is the terr			on-Oxi			ich lies		-		_	-
	` ′	Greisen	` /	Genesis		(c)	Gossan		` '	Gneiss	(e)	None o	f these
(xx)		epages in the S		•	re fron								
		Triassic and J				(b)	Jurassic			S			
	(c)	Cretaceous an	d Pale	ocene		(d)	Paleocer	e and E	ocene		(e) A	all of the	ese
						PAR	T-II						
TON	(ii) (ii) (iii)	PART-II i Attempt (Extra atte considered	NLY mpt of	FOUR qu	estions	s from	PART-I	I. <mark>A</mark> ll qu		•	_		
Q.2.		e various geoc examples.	chemic	al prospect	ing me	ethods	for miner	als. Des	cribe a	ny one of	f them in	detail	(20)
Q.3.		What geological considerations are essential before selecting a site for and during construction of a tunnel? Discuss in detail.								(20)			
Q.4.	Elab	orate Hydrolog	er-flow	flow budget of an hydrologic basin is calculated?						(20)			
Q.5.		What are Kimberlites? Discuss their distribution in space and time, geological setting and petrography.									(20)		
Q.6.	(a)	Give the cri	erpreta	erpretation on an aerial photograph.									
	(b) Briefly discuss the merits and dem Sensing over each other.						nerits of Aerial Photography and Satellite Remote						
Q.7.		Write about the tectonic setting and metallogenic province of RecoDiK Copper – Gold Belt of Balochistan. Discuss the genesis and petrography of the deposit.								t of	(20)		
Q.8.		Give the occurrence of coal deposits in the Kirthar Province of Lower Indus Basin. Describe their stratigraphic association, coal varieties and reserves.								(20)			
