Seat	Total No. of Pages : 11
No	

Ph.D. Entrance Examination 2025 GEOLOGY

	Subject Code: 58804		
•	Day and Date : Tuesday, 09/09/2025 Time : 01.00 pm to 03.00 pm Total Marks : 100		
Ins	tructions:		
1)	All questions are compu	lsory.	
2)	Each question carries 2	mark.	
3)	Answers should be mark appropriate option.	red in the given OMR ans	wer sheet by darkening the
4)	Follow the instructions g	given on OMR sheet.	
5)	Rough work shall be don	e on the sheet provided a	at the end of question paper.
1.	An essential Criterion of	Scientific study is	
	a. Belief	b. Value	
	c. Objectivity	d. Subject	ivity
2.	"A systematic step-by-ste	ep Procedure following lo	ogical process of reasoning"
	a. Experiment		
	b. Observation		
	c. Deduction		
	d. Scientific method		
3. "A system of systematically interrelated concepts definitions and pthat are advanced to explain and predict phenomena" is			
	a. Facts	b. Values	
	c. Theory	d. Genera	lization

4.	"Empirically verifiable observation" is	
	a. Theory	b. Value
	c. Fact	d. Statement
5.	Science is broadly divided into	
	a. Natural and Social	
	b. Natural and Physical	
	c. Physical and Mental	
	d. Social and Physical	
6.	Research is classified on the basis of	and methods.
	a. Purpose	b. Intent
	c. Methodology	d. Techniques
7.	Research undertaken for knowledge s	ake is
	a. Pure Research	b. Action Research
	c. Pilot study	d. Survey
8.	Example for fact finding study is	
	a. Pure Research	b. Survey
	c. Action Research	d. Long term Research
9.	Facts or information's are analyzed ar	nd critical evaluation is made in
	a. Survey	
	b. Action research	
	c. Analytical research	
	d. Pilot study	

10.	A research which follows case study method is called	
	a. Clinical or diagnostic	b. Causal
	c. Analytical	d. Qualitative
11.	Research conducted in class room atm	osphere is called
	a. Field study	b. Survey
	c. Laboratory Research	d. Empirical Research
12.	UGC Stands for	
	a. University Grants Commission	
	c. University Governance Council	
	b. Union Government Commission	
	d. Union government Council	
13.	is the first step of Research p	process.
	a. Formulation of a problem	b. Collection of Data
	c. Editing and Coding	d. Selection of a problem
14.	Concepts areof Research.	
	a. Guide	b. Tools
	c. Methods	d. Variables
15.	Why do you need to review the existin	g literature?
	a. To make sure you have a long list of	references
	b. Because without it, you could never	reach the required word-count
	c. To find out what is already known al	oout your area of interest
	d. To help in your general studying	

16.	A formal document that presents the rethese objectives, and the expected o called	
	a. Research design	c. Research hypothesis
	b. Research proposal	d. Research report
17.	The first purpose of a survey is to	
	a. Description	b. Evaluation
	c. Pration	d. Provide Information
18.	What are the core elements of a Resea	rch Process?
	a. Introduction; Data Collection; Recommendations	Data Analysis; Conclusions and
	b. Executive Summary; Literature R Bibliography	eview: Data Gathered; Conclusions;
	c. Research Plan; Research Data; Analy	rsis; References
	d. Introduction; Literature Review; Discussions and Conclusions	Research Methodology; Results;
19.	Which of the following is true regarding	ng research objectives?
	a. Research objectives, when achieve obtain areas on able return on inves	-
	b. Research objectives, when obtain marketing research department.	ed, will ensure the viability of the
	c. Research objectives, when achieved, solve the problem.	provide the information necessary to

d. Research objectives are seldom achieved but should be stated as goals to

be sought.

20.	Final stage in the Research Process is	
	a. Problem formulation	c. Data Analysis
	b. Data collection	d. Report Writing
21.	A comprehensive full Report of the res	earch process is called
	a. Thesis	
	b. Summary Report	
	c. Abstract	
	d. Article	
22.	Which of the following is not one of treport?	the seven major parts to the research
	a. Results	b. Abstract
	c. Method	d. Footnotes
23.	How many sheets are there, by default	, when we create a new Excel file?
	a. 1	b. 3
	c. 5	d. 10
24.	The internationally accepted scheme was proposed by	of igneous rock classification (IUGS)
	a. Clark	b. Washington
	c. Streekeisen	d. non of the above
25.	The most abundant substance that es	capes when the magma crystallizes is
	a. CO ₂	b. water vapour
	c. H ₂ S	d. O ₂ +N ₂

26. A consolidated igneous rock containing occasional phenocrysts		g occasional phenocrysts is	
	a. vitrophyre	b. obsidian	
	c. scoria	d. pumice	
27.	is the most important featurenvironment.	are for the analysis of sedimentary	
	a. Primary structures		
	b. sedimentary structures		
	c. bioturbated structures		
	d. colour of the sediments		
28.	Variation of paleocurrent direction is	minimum in the deposits formed by	
	a. glacial processes,	b. fluvial processes,	
	c. aeolian processes	d. beach processes.	
29.	Limestones were deposited mainly in	the form of micrites during	
	a. Precambrian	b. Cambrian	
	c. Ordovician	d. Tertiary	
30.	The larger the scale of cross beds indi	cates	
	a. the higher the velocity of the current,		
	b. the lower the velocity of the current,		
	c. the distance of the source rock,		
	d. none of these.		

31.	There are axes of symmetry in the Normal class of Isometric system.		
	a. Nine	b. Five	
	c. Seven	d. Thirteen	
32.	The total number of Space lattices is		
	a. Thirteen	b. Fourteen	
	c. Twelve	d. Thirty two	
33.	The Miller's Indices of clinopinacoid in	n Normal class of Monoclinic system is	
	a. (010)	b. (100)	
	c. (001)	d. (101)	
34.	Baveno Twins are found insyst	cem.	
	a. Monoclinic	b. Triclinic	
	c. Hexagonal	d. Orthorhombic	
35.	A typical bauxite deposit has		
	a. a laterite capping and lithomarge base,		
	b. a lithomarge capping and laterite base,		
	c. a limonite capping and laterite base.		
	d. none of these		
36.	In the Karst regions bauxite deposits of	occur as deposits.	
	a. blanket,		
	b. interstratified,		
	c. pocket		
	d. hydrothermal		

37.	7. If the colour of the gossan is black, it indicates the presence of	
	a. iron	b. manganese
	c. copper	d. gold
38.	The best example of magmatic segrega	ated ores isdeposits.
	a. bauxite	b. iron,
	c. chromium	d. Gold.
39.	What physical parameter of the earth techniques?	is measured in the Seismic refraction
	a. Gravity	b. Density
	c. Permeability	d. Porosity
40.	In the Wenner's configuration, all the p the current electrodes by a distance of	-
	a, one half	b. one third
	c. one fourth	d. two third
41.	The term 'Telluric value' is related to	method of prospecting.
	a. Seismic	
	b. Magnetic	
	c. Electrical	
	d. Gravity	
42.	The Schlumberger Configuration is use	ed in method
	a. Gravity	b. Electrical
	c. Seismic	d. Magnetic

43.	The photographs which we take with our daily use normal camera, representation	
	a. true colors	b. false colors,
	c. negative colors	d. None of these
44.	Parallax on a aerial photograph can be	obtained by means of a
	a. Substance bar	
	b. Stereo-bar	
	c. Parallax-bar	
	d. None of these	
45.	Visible portion of the electromagne micrometer wavelengths.	etic spectrum lies between
	a. 0.1 to 0.4	b. 0.4 to 0.7,
	c. 0.7 to 1.0	d. 0.2 to 0.5
46.	grid system is adopted for Inc	dia.
	a. Universal Transverse Mercator (UTM	Л) Grid,
	b. Lambert Grid,	
	c. Both options are correct,	
	d. None of these	
47.	The current National Water Policy was	reviewed and updated in
	a. 2002	
	b. 1987	
	c. 2012	
	d. 2000	

48.	Movement of debris or sediments on the earth along the slope is called as	
	a. seepage	b. earthquake
	c. landslide	d. volcano
49.	The giant seismic sea waves are called	as
	a. tornado	b. tsunami
	c. flood	d. earthquake
50.	Impact of open cast mining is more on	environment due to
	a. deforestation	b. dumping
	c. landslide	d. none of these

10:11

-- ROUGH WORK --