Model Paper Geology Objective

Intermediate Part – I (11th Class) Examination   Session 2012-2013 and onward

Total marks: 17   **Paper Code_____**   **Time Allowed: 20 minutes**

Note:- You have four choices for each objective type question as A, B, C and D. The choice which you think is correct; fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

Q No.1	Question	A	B	C	D
1	Water expands on	Boiling	Freezing	Heating	None
2	$H_2O + CO_2 \rightarrow$	H_3CO_3	HC_3O_3	H_2CO_3	H_3CO_2
3	Lime stone is metamorphosed into	Chalk	Dolomite	Quartzite	Marble
4	Argillaceous rocks composed of	Sand	Pebbles	Clay	Carbon
5	Evaporated is a rock	Physical	Chemical	Organic	None
6	Silica components in basic rocks are	66 %	55−65 %	45−55 %	Less than 45 %
7	Texture of volcanic rock	Fine	Medium	Coarse	Pheno
8	Magma is a material	Gas	Solid	Molten	None
9	Ox-bow lake present in	DB.	Base level	Meanders	Old age
10	Corrosion is a process	Physical	Chemical	Deposition	Transportation
11	Peneplain is present in	Youth	Mature	Old age	Erosion
12	Stalagmites are formed on	Roof	Ceiling	Floor	Walls
13	Sink is a cavity	Close	Open	Both	None
14	Zone of aeration has belts	2	3	4	5
15	Hardness of topaz	6	7	8	9
16	Planes of cube	7	8	9	13
17	Pyrite is ore of	Iron	Sulphur	Copper	Carbon

Model Paper Geology Subjective

Intermediate Part – I (11th Class) Examination   Session 2012-2013 and onward

Total marks: 83   **Time: 3:10 hours**

Section – I

Q. No: - 2 Attempt any Eight short questions from the followings: **8×2=16**

(i) Define hydration.

(ii) Explain crystal.

(iii) Write Inter facial angle.

(iv) What do you know about magma.

(v) Write plutonic rocks.

(vi) Elaborate acidic igneous rock.

(vii) Uses of gypsum.

(viii) Composition of magma.

(ix) Explain batholith.

(x) What do you know about magnetite.

(xi) Write Extrusive Rocks.

(xii) Differentiate between surface and ground water.

Q. No: - 3 Attempt any Eight short questions from the followings: **8×2=16**

(i)Write frost action.

(ii) Define disintegration.

(iii) Abrasion by stream.

(iv) Explain bed load.

(v) Define drainage basin.

(vi) Write ultimate base level.

(vii) Elaborate metamorphism.

(viii) Differentiate between mineral and rock.

(ix) Define porosity.

(x) Write streak.

(xi) Explain regional metamorphism.

(xii) Importance of hydrological cycle.

Q. No: - 4 Attempt any Six short questions from the followings:　　　　**6×2=12**

(i) Briefly describe Arenaceous rock.

(ii) Define Meanders.

(iii) Write and draw rectangular pattern.

(iv) Explain mature stage of valley.

(v) Elaborate cavern.

(vi) Write Stalactites.

(vii) Define sedimentary rock.

(viii) Write cubic system.

(ix) Explain principal components of cement.

Section – II

Note: Attempt any three questions.　　　　**8×3=24**

Q. No: - 5　　(a) Write in detail discordant Ign. Rocks.

　　　　　　(b) Explain texture of metamorphic rocks.

Q. No: - 6　　(a) Elaborate two processes of physical weathering.

　　　　　　(b) Write organically formed sedimentary rocks.

Q. No: - 7　　(a) Briefly describe cycle of erosion.

　　　　　　(b) Write deposition of ground water.

Q. No: - 8　　(a) Explain oxidation and leaching.

　　　　　　(b) Write any two energy mineral resources in Pakistan.

Q. No: - 9　　(a) Discuss plane of symmetry and axis.

　　　　　　(b) Write and draw zone of aeration.

Section – III　　　(Practical)

Note: Attempt any three Question.　　　　**5×3=15**

Q. No: - 10　(a) Draw two topographic features.　　　3

　　　　　　(b) Write hardness of gypsum and apatite.　　2

Q. No: - 11　Define specific gravity. Write its formula.

Q. No: - 12　　Wa = 250 gms

　　　　　　Ww = 150 gms

　　　　　　Calculate S. G.

Q. No: - 13　Hardness of mineral from

　　　　　　$3 - 7$

Q. No: - 14　Define topography. Draw a feature with contour values

　　　　　　1100, 1200, 1300, 1400, 1500

Assessment Scheme

For Geology 11th Part I Session 2012-13 & ONWARD

Time:3 : 30 hrs   Total Marks:- 100

Sr. No	Chapters Name	Weightage	Distribution of Marks	M.C.Qs *Allotted Marks 17* Q. to be asked 17 / Q. to be attempted 17 — Time 20 Minutes				Short Answer Questions *Allotted Marks 44* Q. to be asked 33 / Q. to be attempted 22				Essay Type Questions *Allotted Marks 24* Q. to be asked 5 / Q. to be attempted 3				Questions relating to Practicals *Allotted Marks 15* Q. to be asked 5 / Q. to be attempted 3
				K	U	A	Total Marks	K	U	A	Total Marks	K	U	A	Total Marks	
1	Physical Weathering	7 %	9	1	-	-	1	2	-	-	4	1	-	-	4	
2	Chemical Weathering	6 %	7	1	-	-	1	1	-	-	2	-	1	-	4	Question No.10=5 marks
3	Streams	7 %	9	1	-		1	2	1	1	8	-	-	-	-	
4	Stream Erosion	10 %	12	1	1	-	2	1	1	1	6	-	1	-	4	Question No.11=5 marks
5	Ground Water I	7 %	9	1	-	-	1	1	-	1	4	1	-	-	4	
6	Ground Water II	8 %	10	1	-	1	2	1	1	-	4	1	-	-	4	Question No.12 =5 marks
7	Crystallography	6 %	7	1	-	-	1	1	1	1	6	-	-	-	-	
8	Symmetry	7 %	9	1	-	-	1	-	1	1	4	1	-	-	4	Question No.13 =5 marks
9	Minerals	6 %	7	1	-	-	1	1	-	1	4	$1/2$	-	-	2	
10	Eco Minerals	5 %	6	-	-	-	-	1	1	-	4	$1/2$	-	-	2	Question No.14 =5 marks
11	Magma	6 %	7	1	-	-	1	1	1	1	6	-	-	-	-	
12	Igneous Rocks	10 %	12	1	1	-	2	2	1	-	6	1	-	-	4	
13	Metamorphic Rocks	7 %	9	1	-	-	1	-	1	1	4	-	1	-	4	
14	Sedimentary Rocks	8 %	10	1	1	-	2	1	1	-	4	1	-	-	4	
Total		**100 %**	**123+25=148**				**17**				**66**				**40**	**25**

Important Note:- 1) K= Knowledge.   U= Understanding / Comprehension   A= Application & Analysis

2) This scheme of Assessment is prepared as per 33% choice in short answer questions, essay questions & questions relating to practicals.

3) In order to promote the cause of concept based learning at least 10 % questions must be unseen or of daily life but relating to specified learning outcomes of Curricula & Syllabi. This portion will increase @ 10% annually but not more than 30%.

4) The questions relating to practical will be asked from the practical Note Book as per chapter were detail given in the curriculum and syllabi 2006.

5) The Practical will be conducted at the end of 12th Class which is mandatory to qualify for award of certificate.

The Practical assessment will be made in the form of grading as per following criteria.

A+= 90% & above, A=80% to 89%, B= 70% to 79%, C= 60% to 69%, D= 50% to 59%, E= 40% to 49%, F= Fail = 40% & below