## GBCS SCHEME

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## Third Semester B.E. Degree Examination, Dec.2023/Jan.2024 Engineering Geology

46		A PORT OF THE PROPERTY OF THE	Engineering Geology	
	Ti	me.	3 hrs. Max. M	orkes 100
1				
		1N	ote: Answer any FIVE full questions, choosing ONE full question from each mo	aule.
tice.			Module-1	
prac	1	a.	Explain the role of engineering geology in the field of civil engineering projects.	(08 Marks)
mal		b.	Describe the parts of the interior of the earth with neat sketches.	(10 Marks)
d as 1		c.	Differentiate between rock and mineral.	(02 Marks)
50, will be treated as mal		· .	OR	
11 be	2	a.	Explain the following physical properties with suitable example.	
. WI			i) Habit ii) Hardness iii) Diaphaneity.	(09 Marks)
20	k jaka s	b.	Write the physical properties of the following minerals and mention the engineer	ing used of
.∥ ∞	8 6		the minerals i) Quartz ii) Magnetite iii) Chromite.	(09 Marks)
,42+		c.	Explain the following: i) Rock forming minerals ii) Ore forming minerals.	(02 Marks)
/or equations written eg, 42+8			Madula 2	138 V 361
ritte	3	a.	Module-2 Classify the Igneous rocks based on mode of origin and mineral composition.	(00.34. 1.)
IS W	3	а. b.	Add a note on engineering used of the following rocks	(08 Marks)
ation		υ.	i) Granite ii) Basalt iii) Sandstone iv) Gneiss.	(12 Marks)
edni				
/or	was a way		OR	
and	4	a.	Briefly explain the classification to soil profile with neat sketches.	(08 Marks)
tor	N 1970	b.	Describe the drainage patterns with neat sketches.	(06 Marks)
identification, appeal to evaluator and		c.	Explain the characteristics of rocks as materials for construction.	(06 Marks)
o ev	1000	24		
al to			Module-3	
bbe	5	a.	Explain the different types of unconformity with neat sketches and mention the	engineering
n, a			considerations.	(10 Marks)
atio		b.	What are joints? Classify the different type of joints with neat sketches and a	dd note on
ific			engineering considerations.	(10 Marks)
dent	1 1 p			
of 10			ÖR	18:345 4 V 3
ng	6	a.	Describe the parts of the dam with neat sketches and their preventive measures	to be taken
eali			for the selection of dam sits.	(10 Marks)
rev		b.	Briefly explain the Rock Quality Determination (RQD) and Rock Structural Rat	ing (RSR).
Any revealing				(04 Marks)
2.7		c.	Explain the following with neat sketches.	
			i) DIP ii) Strike iii) Outcrop.	(06 Marks)
			Module-4	MA A
regir	7	a.	Describe the vertical distribution of ground water with neat sketches.	(07 Marks)
No.		b.	With neat sketches describe confined and unconfined aquifers.	(09 Marks)

Explain the hydrological cycle with neat sketches.

7		100 150
	OR	
a.	Explain the ground water explanation using Electrical resistivity method.	(10 Marks)
b.	Describe the following:	
	i) Artificial recharge of ground water	(05 Marks)
	ii) Floods and its controls.	(05 Marks)
	Module-5	
a.	What is earthquake? Describe the types, causes and effects of earth quake.	(10 Marks)
b.	Briefly explain the remedial measures for earthquake, Tsunami and Landslides.	(10 Marks)
	OR	
	Describe the following:	
10 AC	i) Applications of Remote sensing in civil engineering projects	
	ii) Uses of geographic information system	
	iii) Topographic maps	
	iv) GPS Global Positioning System).	(20 Marks)

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