



HINDU COLLEGE GUNTUR

NAAC 'A' GRADE

DEPARTMENT OF GEOLOGY

2021-22

ADD-ON course particulars

1. List of students enrolled with signatures of students:

GEOLOGY DEPARTMENT		
LIST OF STUDENTS ENROLLED WITH SIGNATURES OF STUDENTS - 2021 - 2022		
S.No	Name of the Student	Signature of the Student
1.	CHILUMURI - PRADEEP	CH. Pradeep
2.	KALAKOLLU - GOPINADH	K. Gopi Nadh
3.	KANUMURI - VAMSI VADIDYA	R. Vamsi
4.	KARLAPALEM - HARITHASA SUNIL	K. Harithasa Sunil
5.	KODURU - ARCHANA	K. Archana
6.	KOLLURI - Sravanthi	K. Sravanthi
7.	KONGANA - SAI KRISHNA	E. Sai Krishna
8.	PATHAN - FIRDOSE	P. Firdose
9.	SHAIK - ABUL RASHEED	SK - Abul Rasheed
10.	SHAIK - MAHAMMAD ANEES	SK - Mohammad anees
11.	SHAIK - MEHATAB	SK Mehatab
12.	SHAIK - NASREEN	SK Nasreen
13.	SHAIK - VAKEL AHAMAD	SK. Vakel
14.	SIRIGIRI - MOUNIKA	S. Mounika
15.	SYED - ARSHA THUNNISA	sa Arsha thunnisa
16.	SYED - BADHRU HASSANI	Sy. Badhru Hassan
17.	VALLABHA - KIRAN	V. Kiran
18.	VANGIPURAPU - MYSHNAVI	V. Myshnavi
19.	VARLA - ANJANA	V. Anjana
20.	VELAGALETI - BHANU PRAKASH	V. Bhanu prakash

2. Syllabus:

UNIT-1

INTRODUCTION: Definition of hydrology, Hydrogeology, scope and application of Hydrogeology. Hydrological evaporation, Condensation, Precipitation, Infiltration, Transpiration. Evapotranspiration.runoff, Connate water

Ground water: origin, Occurrence, and age of ground water, vertical distribution of sub-surface water, zone of aeration-soil water, vadose water, capillary fringe. Zone of saturation -water table. Perched water table. Recharge and discharge areas

Unit-2

QUALITY OF GROUND WATER: Physical, chemical and biological characteristics of groundwater. Suitability of ground water for drinking, Irrigation and industrial purposes. Pollution of ground water; Pollution in relation to urban, industrial and agricultural sources. Brief account of saline water intrusion.

UNIT-3

GROUND WATER INVESTIGATION: Scope of investigations, Methods of groundwater explorations, Brief account of geologic, hydro geologic, Geo-botanical investigations, Introduction to Remote sensing techniques. Geophysical exploration: Basic principles of Geophysical exploration methods; electrical methods- schluntberger and wenner configuration, Resistivity profiling and vertical Electrical sounding.

3.Assessment procedure:

- This year we introduce an add-on certificate course on “knowledge of ground water”. About 20 students were enrolled in this course.
- The aim of this course to inculcate knowledge of ground water and ground water related aspects.
- In this course students are taken to areas or field to understand the ground water resource in the city.
- At the end of the course a test was conducted to ensure that the student updated with the course.
- Those who qualified in the test they are provided with a course certificate.

4. Attendance sheet of students:

ADD-ON COURSE ATTENDANCE SHEET OF STUDENTS

Name of the Institution
HINDU COLLEGE GUNTUR

Student's Attendance Register
CLASS: 2021-2022

సం|| నెల విద్యార్థుల హాజరుపట్టిక
SEMESTER:

అడ్మిన్. నెం. Admin. No.	విద్యార్థి నెం. S. No.	విద్యార్థి పేరు Name of the Student	వయస్సు / అవస్థ Age-Cast	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	హాజరు దినములు Pres. days	UNIT-I	UNIT-II	
	1	CHILUMURI. PRADEEP		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	2	KAKAKOLU. GOPINADH		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	3	KANUMURI. VAMSIYADIDYA		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	4	KARAPALEM. JARITHASUNIL		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	5	KODURU. ARCHANA		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	6	KOLLURI. SRAVANTHI		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	7	KONGIANA. SAIKRISHNA		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	8	PATHA. FIRDOSE		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	9	SHAIK. ABDUL RASHEED		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	10	SHAIK. MOHAMMED ANEES		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	11	SHAIK. MEHATAB		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	12	SHAIK. NASEERU		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	13	SHAIK. VAKKELAHAMAD		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	14	SIRIGURI. MOONIKA		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	15	SYED. ARSHA THUNNISA		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	16	SYED. BADHRU ASSAY		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	17	VALLABHA. KIRAN		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	18	VANGIPURAPU. VYSHNAVY		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	19	VARALA. ANJANA		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	20	VELAGALETI. BHANU PRAYAG		X	X	X		X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		

SATURDAY

5. Test paper conducted to check the knowledge of the students:

- 1) Which of the following reservoirs contains the most water?
 - a) Atmosphere
 - b) Biosphere
 - c) Groundwater
 - d) Lakes and rivers
- 2) The percentage of a rocks total volume that is taken up by pore space is called the_____.
 - a) Permeability
 - b) Recharge
 - c) Aquifer
 - d) Porosity
- 3) Permeability is _____.
 - a) The ability of a solid to allow fluids to pass through
 - b) The process by which plants release water vapour to the atmosphere
 - c) The amount of water vapour in the air relative to the maximum amount of water vapour the air can hold.
 - d) The percentage of pore space in the rock.
- 4) The ability of an earth material to transmit water is a measure of its:
 - a) Porosity

- b) Aquifer characteristics
 - c) Chemical cement
 - d) Permeability
- 5) What is a term for a relatively impermeable geologic unit?
- a) An artesian
 - b) An aquiclude
 - c) An aquifer
 - d) Recharge
- 6) In what types of rock do most caves form?
- a) Granite
 - b) Shale
 - c) Limestone
 - d) Sandstone
- 7) Stalactites and stalagmites in caves are composed of _____.
- a) Quartz
 - b) Alkali feldspar
 - c) Halite
 - d) Calcite
- 8) Most of the water coming out of continental hot springs is_____.
- a) Meteoric water
 - b) Magmatic water
 - c) Sea water
 - d) Metamorphic water

9) Which of the following materials has the lowest porosity?

- a) Shale
- b) Gravel
- c) Granite
- d) Sandstone

10) Sinkholes are a possible danger in regions underlain by what type of bedrock?

- a) Granite
- b) Sandstone
- c) Shale
- d) Limestone

6. Model certificates:



HINDU COLLEGE GUNTUR

NAAC 'A' GRADE

DEPARTMENT OF GEOLOGY

CERTIFICATE

This is to certify that Mr. /Miss.....

*Attended online certificate course on **KNOWLEDGE OF GROUND WATER***

From 07 February 2022 to 12 February 2022 and qualifies for award of certificate.

SHAIK JOHN SAHEB

Coordinator

P.M. PRASAD

Principal