U.S.N | | | | | | | | | | |

P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Sixth Semester, B.E. - Civil Engineering

Semester End Examination; July / Aug. - 2022

Earth Science and Natural Resources

Time: 3 hrs *Max. Marks: 100*

Course Outcomes

The Students will be able to:

CO1: Understand the basic materials in civil engineering

CO2: Analyse the types of foundation, have an insight to different types of doors, windows.

CO3: To classify Bonds in brick work, English bond, Flemish bond, Joints in stone masonry, arches.

CO4: To understand the building components and method of construction.

***Note**: I) **PART - A** is compulsory. **Two** marks for each question.*

*II) **PART - B**: Answer any **Two** sub questions (from a, b, c) for Maximum of **18 marks** from each unit.*

Q. No.		Questions	Marks	BLs	COs	POs
		I : PART - A	**10**			
I	a.	Define Igneous rocks.	2	L1	CO2	1,2
	b.	Define soil.	2	L1	CO1	1,2
	c.	What is fold?	2	L2	CO1	2
	d.	Define Aquifer.	2	L2	CO1	2
	e.	Explain Reservoir.	2	L2	CO2	1,2
		II : PART - B	**90**			
		UNIT - I	**18**			
1	a.	With a neat diagram, explain internal structure of earth.	9	L2	CO1	2
	b.	Explain Mohr's scale of hardness.	9	L1	CO1	1,2
	c.	With an example explain three types of rocks.	9	L1	CO1	1,2
		UNIT - II	**18**			
2	a.	Define earthquake. Explain causes and effects of earthquake.	9	L2	CO2	3
	b.	Describe volcanoes. Explain causes and effects of volcanoes.	9	L2	CO2	3
	c.	Describe weathering process. Add a note on importance.	9	L1	CO2	3
		UNIT - III	**18**			
3	a.	With a neat diagram explain different types of faults.	9	L2	CO2	2
	b.	How you recognize fold in the field?	9	L1	CO2	2
	c.	Explain unconformities and its types.	9	L1	CO2	2
		UNIT - IV	**18**			
4	a.	With a neat diagram explain hydrological cycle.	9	L3	CO1	7
	b.	Explain how ground water is contaminated due to different sources.	9	L3	CO1	7
	c.	Describe rain water harvesting.	9	L2	CO1	7

Contd... 2

UNIT - V **18**

5 a.	Define dam. Explain different types.	9	L2	CO2	7
b.	Define bridges. Explain different types.	9	L2	CO2	4
c.	Describe GPS and its applications.	9	L2	CO2	4

* * * *