Name:		S	
Enrolment No:		_	
Course	UNIVERSITY OF PETROLEUM AND ENERGY STUDI Online End Semester Examination, December 2020 : Material Testing and Evaluation Ser	IES nester: III	
Program: B Tech Civil Engineering Time 03 hrs		ne 03 hrs.	
Course		ax. Marks: 100	
<u> </u>	SECTION A		T
S. No.		Marks	CO
Q 1	Plaster is a building material similar to, but will contain finer mortar, in order to obtain better Plaster is used as a protective and/or decorative coating on and and for moulding and casting decor- elements.	5	CO1
Q 2	Name any five properties of building materials.	5	CO2
Q 3	 a) Hardness is a material characteristic which can be defined as resistant deformation (,, compression etc.) b) The absorbed by the specimen is measured by the loss in energy of moving (Impact test). 	5	CO3
Q 4	Strength is the ability of a material to resist stresses caused by the external for (such as,,,, and), without failure fracture	or 5	CO1
Q 5	Nine grades (MM to MM), are based on compressive strength f	from 5	CO2
Q 6	 a) The tensile test is widely used to provide basic design information on of materials and as acceptance test for of materials. b) The limiting load beyond which the material no longer behaves elastic called c) Measure of stiffness of material is called d) Stress required for producing a small specified permanent deformation called 	cally is 5	CO3
	SECTION B		
Q 7	Explain the characteristics of good mortar.	10	CO1
Q 8	Describe the mechanical properties of Mild steel and HYSD.	10	CO2
Q 9	Discuss on the testing of bitumen to confirm it to be a better road binding ma	terial. 10	CO3
Q 10	Discuss the properties of asbestos.	10	CO2
Q 11	Differentiate between Izod and Charpy tests on mild steel.	10	CO3
0.10	SECTION-C		T
Q 12	Describe the manufacturing process of steel and heat treatment of steel with to of flow chart. (OR)	the help 20	CO1

Describe the testir	g of concrete to ascertain its quality both in fresh and hardened	
state. Also highlig	nt its specifications.	