

Part - A (2 x 10=20)

Answer ONE FULL question from each unit

All the Questions Carry EQUAL marks

Q.No	Question	Unit	BT Level	CO covered	Marks Allotted
1	a) What is levelling? Write a few types of levelling	II	L2	CO2	(8M)
	b) Explain the terms i) Back sight ii) Fore sight	II	L2	CO2	(2M)
(OR)					
2	a) Write briefly about contour mapping	II	L2	CO2	(8M)
	b) Explain the terms i) Bench mark. ii) datum	II	L1	CO2	(2M)
3	a) What are the components & functions of rigid & flexible pavement	III	L2	CO3	(8M)
	b) Explain about quality of water	III	L1	CO3	(2M)
(OR)					
4	a) How transport engineering is important in economic development? Discuss	III	L2	CO3	(8M)
	b) Define terms i) Harbour ii) Tunnel	III	L1	CO3	(2M)

Part -B (2 x 10=20)

Answer ONE FULL question from each unit

All the Questions Carry EQUAL marks

Q.No	Question	Unit	BT Level	CO covered	Marks Allotted
1	a) What are the important types of metal joining processes?	II	L1	CO1	(8M)
	b) State advantages and limitations of water tube boilers.	II	L2	CO1	(2M)
2	a) Discuss the classification of IC engines.	II	L2	CO1	(8M)
	b) What are the industrial applications of air conditioning?	II	L1	CO1	(2M)
3	a) Describe the working principle of steam power plants.	III	L2	CO2	(8M)
	b) Write a short note on the classification of gears.	III	L2	CO2	(2M)
(OR)					
4	a) Draw general layout of Hydro-Electric Power plant showing all components.	III	L2	CO2	(8M)
	b) Write short note on chain drives.	III	L2	CO2	(2M)

RAYALASEEMA UNIVERSITY COLLEGE OF ENGINEERING, KURNOOL – 518007

B.TechI Semester (RU23) I Sessional Examinations –October 2024

BASIC CIVIL AND MECHANICAL ENGINEERING (23AES0101)

(COMPUTER SCIENCE & ENGINEERING)

24RU1A05A9

Time: 90 min

Date: 16/10/2024 (FN)

Part - A (2 x 10=20)

Answer ONE FULL question from each unit

****All the Questions Carry EQUAL marks****

Q.No	Question	Unit	BT Level	CO covered	Marks Allotted
1	a) Explain various types of disciplines of Civil engineering & scope of them	I	L2	CO1	(8M)
	b) Write a short note on role of civil engineers in society	I	L2	CO1	(2M)
(OR)					
2	a) Name the types of cement & types of Aggregates	I	L1	CO1	(8M)
	b) What are prefabricated material & list them	I	L1	CO1	(2M)
3	a) What are the various instruments used in chain surveying & list out them	II	L2	CO2	(8M)
	b) Define surveying & it's objectives	II	L1	CO2	(2M)
(OR)					
4	a) Convert WCB to RB a) 20° 30' b) 176° 10'. c) 220° 30' d) 295° 40'	II	L2	CO2	(8M)
	b) Define terms true bearing , magnetic bearing, arbitrary bearing	II	L1	CO2	(2M)

Part -B (2 x 10=20)

Answer ONE FULL question from each unit

****All the Questions Carry EQUAL marks****

Q.No	Question	Unit	BT Level	CO covered	Marks Allotted
5	a) Explain roles of mechanical engineering in Industries and society.	I	L2	CO1	(8M)
	b) Explain technologies involved in marine sector	I	L2	CO1	(2M)
6	a) Explain engineering material with each one with one example.	I	L2	CO1	(8M)
	b) What are smart materials?	I	L1	CO1	(2M)
7	a) What are manufacturing processes and explain principles of casting.	II	L2	CO2	(8M)
	b) List the types of the casting process.	II	L1	CO2	(2M)
(OR)					
8	a) Explain Extrusion and Rolling processes with neat diagram.	II	L2	CO2	(8M)
	b) What is joining process?	II	L1	CO2	(2M)