1316 ESE_DE	C2020_SOE_BTech CERP_SemV_CHCE3022P_A	100 marks	180 minutes	
Instructi	ons			
Read th	ne instructions provided for every question properly before a	attempting the answer.		
1. Section	Λ	<b>5</b> marks per question	<b>6</b> display questions	<b>6</b> maximum answerable
i. Section		3 marks per question	<b>o</b> display questions	o maximum answerable
Q1	MCQ - Single Answer <b>5</b> marks	CO1		
The caus	se of increase of CO <sub>2</sub> in environment is burning of			
Coa	al			
Oil				
Nat	tural Gas			
All				
		Rubrics —		
Q2	MCQ - Single Answer <b>5</b> marks	CO1		
The rene	wable energy sources involve low capital cost investment a	and have high conversion efficiencies		
True	е			
True				
		Rubrics		
Fals	se			
Fals	MCQ - Single Answer 5 marks	Rubrics		
Fals	se			
Fals  What is th	MCQ - Single Answer 5 marks			
Q3 What is the	MCQ - Single Answer 5 marks he best advantage of renewable energy sources?			
Q3 What is the	MCQ - Single Answer 5 marks  the best advantage of renewable energy sources?  ese are inexpensive			
Q3  What is the The The	MCQ - Single Answer 5 marks  the best advantage of renewable energy sources?  The see are inexpensive  The see are sustainable			
Q3  What is the The The	MCQ - Single Answer 5 marks  the best advantage of renewable energy sources?  ese are inexpensive  ese are sustainable  ese are highly energy efficient			
Q3 What is the The The	MCQ - Single Answer 5 marks  the best advantage of renewable energy sources?  The ese are inexpensive  The ese are sustainable  The ese are highly energy efficient  The ese are non-polluting	CO1		
Q3  What is the The The	MCQ - Single Answer 5 marks  the best advantage of renewable energy sources?  ese are inexpensive  ese are sustainable  ese are highly energy efficient	CO1		

G	eothermal energy reservoirs are		
Q	5 MCQ - Single Answer 5 marks	СОЗ	
Т	he expression for Carnot efficiency of OTEC is		
	\$\frac{\delta T\ }{T_h}\$		
	\$\frac{T_h}{\delta T}\ \$		
	\$\frac{\delta T}{T_c}\ \$		
	\$\delta T\ \$		
		Rubrics	
Q	6 MCQ - Single Answer 5 marks	СОЗ	
Т	he motion of wave is		
	Steady state		
$\circ$	Transient		
	Periodic		
	None of these		
		Rubrics	
2.	Section - B	10 marks per question	5 display questions 5 maximum answerable
2. : Q:		10 marks per question	5 display questions 5 maximum answerable
Q			5 display questions 5 maximum answerable
Q	1 Scan and/or Upload 10 marks		5 display questions 5 maximum answerable
Q	Scan and/or Upload 10 marks derive an expression for power developed due to wind.	CO2	5 display questions 5 maximum answerable
Q	Scan and/or Upload 10 marks derive an expression for power developed due to wind.	CO2  Rubrics  CO2	5 display questions 5 maximum answerable
Q	Scan and/or Upload 10 marks derive an expression for power developed due to wind.  Scan and/or Upload 10 marks	CO2  Rubrics  CO2	5 display questions 5 maximum answerable
Q	1 Scan and/or Upload 10 marks Perive an expression for power developed due to wind.  2 Scan and/or Upload 10 marks Pescribe the different types of turbines used for small-sca	Rubrics  CO2  ale hydroelectric plants.	5 display questions 5 maximum answerable
Q: D Q: In th	1 Scan and/or Upload 10 marks  perive an expression for power developed due to wind.  2 Scan and/or Upload 10 marks  pescribe the different types of turbines used for small-scan  3 Scan and/or Upload 10 marks  an an estuary, which is being developed for tidal power of	Rubrics  CO2  Rubrics  CO3  generation during the tide cycle, the observed different wer for 3 hours in each cycle. Assuming the average	5 display questions  5 maximum answerable  1 ce between high and low water of the tide was 5.5 m. It is estimated available head to be 5 m and the overall efficiency of generation to be
Q: D Q: In th	Scan and/or Upload 10 marks  Perive an expression for power developed due to wind.  Scan and/or Upload 10 marks  Pescribe the different types of turbines used for small-scan an estuary, which is being developed for tidal power of the estuary's area 0.5 sq. km which can generate possible, calculate i) the power in hp at any instant and ii) the	Rubrics  CO2  Rubrics  CO3  generation during the tide cycle, the observed different wer for 3 hours in each cycle. Assuming the average	nce between high and low water of the tide was 5.5 m. It is estimated
Q: D Q: In th	Scan and/or Upload 10 marks  Perive an expression for power developed due to wind.  Scan and/or Upload 10 marks  Pescribe the different types of turbines used for small-scan  Scan and/or Upload 10 marks  In an estuary, which is being developed for tidal power of the estuary's area 0.5 sq. km which can generate possible, calculate i) the power in hp at any instant and ii) the eawater specific gravity = 1025 kg/m <sup>3</sup> .	Rubrics  Co2  Ale hydroelectric plants.  Rubrics  Co3  Generation during the tide cycle, the observed different wer for 3 hours in each cycle. Assuming the average total energy in the year.	nce between high and low water of the tide was 5.5 m. It is estimated
Qi D Qi In the 7's S D F A G	Scan and/or Upload 10 marks  Perive an expression for power developed due to wind.  Scan and/or Upload 10 marks  Pescribe the different types of turbines used for small-scan  Scan and/or Upload 10 marks  In an estuary, which is being developed for tidal power of the estuary's area 0.5 sq. km which can generate possion, calculate i) the power in hp at any instant and ii) the eawater specific gravity = 1025 kg/m <sup>3</sup> .	Rubrics  CO2  Rubrics  Rubrics  CO3  generation during the tide cycle, the observed differer wer for 3 hours in each cycle. Assuming the average total energy in the year.  Rubrics  Rubrics	nce between high and low water of the tide was 5.5 m. It is estimated

\\/hat is a fue					
vvnat is a lue	el cell? Describe the principle c	f working of a fuel cell wit	h reference to H <sub>2</sub> -O <sub>2</sub> cell.		
			Rubrics		
3. Section - C			20 marks per question	<b>1</b> display questions	<b>1</b> maximum answerable
Q1	Scan and/or Upload	20 marks	CO5		
What are the	e different methods of hydroger	n production? Explain in b	rief about any two methods.		
			Rubrics		

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