Roll No.

7E7044

Total No of Pages: 2

B. Tech. VII Sem. (Main / Back) Exam., Nov. - Dec. - 2018 Electrical & Electronics Engineering 7EX4A Non-Conventional Enenrgy Sources

Common with EE, EX

Maximum Marks: 80

Min. Passing Marks: 26

Time: 3 Hours

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly.

Units of quantities used/calculated must be stated clearly.

Use of following supporting material is permitted during examination. (Mentioned in form No. 205)

NIL

UNIT- I

Differentiate Conventional and Non - conventional energy sources.

[16]

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OR

Q.1 (a) What is Double basin arrangement?

[8]

(b) Write advantages and limitations of Tidal Power Generation.

[8]

UNIT- II

Explain types of Solar collectors and differentiate Paraboloidal and Heliostat. [8] Q.2 (a)

Explain Solar radiation on tilted surface. (b)

[8]

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[6520]

	OR		[16]
Q.2 Explain briefly Solar cell	l and Solar cell array.		
Q.2 Day	UNIT-III	at and	clear
, Lainontal	unit-III axis and vertical axis wind turbine with nea		[16]
Q.3 Differentiate nonzontal			
dingrant.	OR		[8]
	Leat hybrid power plan	nt.	[0]
Q.3 (a) Explain geothermal	energy and geothermal preheat hybrid power plan		[8]
Write application of	geothermal energy.		
	UNIT-IV		
	realogy fusion.		[8]
Q.4 (a) Differentiate Nuclear	r fission and Nuclear fusion.		[8]
(b) Explain Plasma confi	inement and Magnetic confinement.		
	<u>OR</u>		•
Q.4 Write advantages of Laser	fusion reactor and Hybrid and Cold fusion.		[16]
	UNIT- V		
Q.5 Explain Biomass conversion	on technologies.		[16]
-	<u>OR</u>		
Q.5 Explain Pyrolysis scheme	and Ethanol production.		[16]
Q.5 CAPILLIA STORY			
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