

## Advanced Nano Materials and Devices VTU CBCS Question Paper Set 2018



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## Eighth Semester B.E. Degree Examination, June/July 2017

## **Advanced Nanomaterials and Devices**

Note: Answer FIVE full questions, selecting at least TWO questions from each part.

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		$\underline{PART} - \underline{A}$	
1	a.	Explain in detail about Molecular sieves and their applications.	(10 Mark
	b.	What are Nanosponges? Write the preparation and applications.	(10 Mark
2	a.	· · · · · · · · · · · · · · · · · · ·	(08 Mark
	b.	Write a brief note on Quantum Dots and their synthesis and fabrication techniques.	(12 Mark
3	a.	Describe consequences and limitations of Moore's law.	(08 Mark
	b.	Explain in brief about Carbon Nanotube based FET.	(12 Mark
4	a.	Mention and explain about any two lithography techniques used for Nanofabrication	
	b.	Write about Black phosphorous (BP) interface engineering and biological	(12 Mark interfa (08 Mark
		<u>PART – B</u>	
5	a.		(10 Mark
	b.	Explain about molecular shuffle with neat sketches.	(10 Marl
6	a.	Explain initiation and force generation and real time dynamics.	(08 Marl
	b.	Explain about mechanism, dynamics and energetic of ATP synthase.	(12 Mark
7	a.	Explain biomacro molecular nanoreactions.	(10 Marl
/		Discuss shout rod shaped and uses structured paperantions	(10 Marl
,	b.	Discuss about rod shaped and cage structured nanoreactions.	(10
8	b. а.		(12 Mari

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