

Question # 1 of 10 (Start time: 02:23:21 AM, 18 August 2020)

Total Marks: 1

The quantum confinement effect is observed when the size of the nanoparticle is ----- to be comparable to the wavelength of the electron.

Select the correct option

☐	large	
☒	small	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	constant	
☐	equal to wavelength of electron	

Click to Save Answer & Move to Next Question



Question # 2 of 10 (Start time: 02:24:26 AM, 18 August 2020)

Total Marks: 1

Which of the following is not an example of nanostructured materials?

Select the correct option

☐	Nanocrystalline	
☐	Nanocomposite	
☐	Hybrid materials	
☒	All of these are nanostructured materials	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question



Question # 3 of 10 (Start time: 02:25:54 AM, 18 August 2020)

Total Marks: 1

Different phases of liquid crystals can be distinguished by their

Select the correct option

☐	Electric properties	
☐	Magnetic properties	
☐	Chemical properties	
☒	Optical properties	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com



Click to Save Answer & Move to Next Question



Question # 4 of 10 (Start time: 02:27:44 AM, 18 August 2020)

Total Marks: 1

Diameter of carbon nanotubes is

Select the correct option

☐	<100 nm	
☐	<50 nm	
☒	30 nm	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	None of the given options	



Click to Save Answer & Move to Next Question



Question # 5 of 10 (Start time: 02:28:58 AM, 18 August 2020)

Total Marks: 1

The material which contains two or more phase separated components with morphology of spheres, cylinders or networks with nano-sized dimensions is -----?

Select the correct option

☐	Nanocylinder	
☐	Nanostructure	
☒	Nanocomposite	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Nanodot	

[Click to Save Answer & Move to Next Question](#)

Question # 6 of 10 (Start time: 02:29:50 AM, 18 August 2020)

Total Marks: 1

Which process is mainly used in the formation of Nanofibers?

Select the correct option

☐	Electroplating	
☐	Spectrometry	
☐	Cytometry	
☒	Electrospinning	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

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Question # 7 of 10 (Start time: 02:31:43 AM, 18 August 2020)

Total Marks: 1

The self-healing properties of natural adhesives are due to the properties of the ----- contained in them?

Select the correct option

☒	Proteins	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Glycans	
☐	minerals	
☐	covalent bond	

Click to Save Answer & Move to Next Question

Question # 8 of 10 (Start time: 02:32:48 AM, 18 August 2020)

Total Marks: 1

Antibody-based biosensors are also known as _____.

Select the correct option

☐	Microbiosensors	
☒	Immunosensors	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Potentiometric Biosensors	
☐	Biochips	

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 02:33:55 AM, 18 August 2020)

Total Marks: 1

----- is used to avoid nanoparticles from agglomeration and they don't get deposited.

Select the correct option

☒	Surfactant	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Algal Extract	
☐	Ceramic	
☐	Choloroform	

[Click to Save Answer & Move to Next Question](#)

Question # 1 of 10 (Start time: 10:42:17 PM, 18 August 2020)

Total Marks: 1

Expand ROS

Select the correct option

☐	Responsive oxygen species	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☒	Reactive oxygen species	
☐	Receptive oxygen species	
☐	Responsible oxygen species	

[Click to Save Answer & Move to Next Question](#)

Question # 2 of 10 (Start time: 10:43:36 PM, 18 August 2020)

Total Marks: 1

Which one of the following is neoplastic disease?

Select the correct option

☐	Hypertension	
☐	Coronary disease	
☒	Cancer	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Parkinson's disease	

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 10:44:17 PM, 18 August 2020)

Total Marks: 1

The transduction methods used in biochips are _____.

Select the correct option

☐	Surface plasmon resonance	
☐	MRI	
☒	CT scan	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Self Enhanced Resonance Spectroscopy	

Click to Save Answer & Move to Next Question

Question # 4 of 10 (Start time: 10:46:13 PM, 18 August 2020)

Total Marks: 1

Which of the following is natural self adhesive material?

Select the correct option

☐	Silver nanodots	
☐	Nanobeads	
☐	Nanocavities	
☒	Diatoms	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com



Click to Save Answer & Move to Next Question



Question # 5 of 10 (Start time: 10:47:47 PM, 18 August 2020)

Total Marks: 1

A sensor which converts light rays into an electronic signal is:

Select the correct option

☒	Optical sensors	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Sensors	
☐	Biosensors	
☐	Bioreceptors	

Click to Save Answer & Move to Next Question



Question # 6 of 10 (Start time: 10:48:18 PM, 18 August 2020)

Total Marks: 1

Which of the following isn't a benefit of nanocoatings?

Select the correct option

- | | | |
|----------------------------------|--|--|
| ☐ | Substrate waterproofing | |
| ☐ | Prolonged substrate lifespan and application use | |
| ☐ | Ultraviolet (UV) stability | |
| ☒ | Urea preparation | Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com |

[Click to Save Answer & Move to Next Question](#)

BT405:Quiz 01

Quiz Start Time: 10:42 PM, 18 August 2020

10:49 PM
18-Aug-20

sec(s)

Question # 7 of 10 (Start time: 10:49:17 PM, 18 August 2020)

Total Marks: 1

Who used the word Nanotechnology for the first time?

Select the correct option

- | | | |
|----------------------------------|--|--|
| ☐ | Professor Claudio of SEPRL, USA | |
| ☒ | Professor Taniguchi of Tokyo Science University | Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com |
| ☐ | Professor Patti Miller of Japan Science University | |
| ☐ | Professor David of Japan Science University | |

[Click to Save Answer & Move to Next Question](#)

BT405:Quiz 01

Quiz Start Time: 10:42 PM, 18 August 2020

10:50 PM
18-Aug-20

sec(s)

Question # 8 of 10 (Start time: 10:50:25 PM, 18 August 2020)

Total Marks: 1

A molecule that specifically recognizes the analyte is known as -----?

Select the correct option

☐	Biomarker	
☒	Bioreceptor	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Biomachine	
☐	Transducer	

Click to Save Answer & Move to Next Question

Question # 9 of 10 (Start time: 10:51:31 PM, 18 August 2020)

Total Marks: 1

Smart coatings can also be passive in the sense of changing their optical properties due to:

Select the correct option

☒	Thermochromic & photochromic	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	wavelength	
☐	infrared	
☐	environmental conditions	

Click to Save Answer & Move to Next Question

Question # 1 of 10 (Start time: 01:07:43 AM, 19 August 2020)

Total Marks: 1

If the nanotube structure is armchair then the electrical properties will be -----?

Select the correct option

☒	Metallic	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Non-metallic	
☐	Neither metallic nor non- metallic	
☐	Convergent	

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 01:08:31 AM, 19 August 2020)

Total Marks: 1

Developed by the oil industry, MCM-41 with pore sizes in the range of _____ nanometers, is used for the removal of ultrafine contaminants

Select the correct option

☐	1-200	
☐	1-100	
☐	10-200	
☒	10-100	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 01:09:13 AM, 19 August 2020)

Total Marks: 1

Which of the following protein transports and stores iron in an organism, forms nanocavities----

Select the correct option

☐	Albumin	
☒	Ferritin	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Globulin	
☐	Ferricin	

Click to Save Answer & Move to Next Question

Question # 4 of 10 (Start time: 01:09:58 AM, 19 August 2020)

Total Marks: 1

Block copolymers comprised of _____

Select the correct option

☒	Hydrophobic & Hydrophilic block	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Organic blocks	
☐	Inorganic blocks	
☐	Crystalline block	

Click to Save Answer & Move to Next Question

Question # 5 of 10 (Start time: 01:10:54 AM, 19 August 2020)

Total Marks: 1

Which of the following physical parameter cannot be converted into an electrical signal by a sensor?

Select the correct option

☐	Temperature	
☐	Humidity	
☐	Speed	
☒	Antibodies	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com



Click to Save Answer & Move to Next Question



Question # 6 of 10 (Start time: 01:12:34 AM, 19 August 2020)

Total Marks: 1

The transduction methods used in biochips are _____.

Select the correct option

☐	Surface plasmon resonance	
☒	MRI	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	CT scan	
☐	Self Enhanced Resonance Spectroscopy	

Click to Save Answer & Move to Next Question



Question # 7 of 10 (Start time: 01:12:51 AM, 19 August 2020)

Total Marks: 1

Polymers that are good conductors of electricity are called _____.

Select the correct option

- | | | |
|----------------------------------|---------------------|---|
| ☐ | Platinum polymers | |
| ☒ | Conductive polymers | Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com |
| ☐ | Boron polymers | |
| ☐ | Block polymers | |

Click to Save Answer & Move to Next Question

Question # 8 of 10 (Start time: 01:13:30 AM, 19 August 2020)

Total Marks: 1

More than _____ of biotech companies in the U.S. are involved in pharmaceutical production

Select the correct option

- | | | |
|----------------------------------|-----|---|
| ☐ | 60% | |
| ☐ | 50% | |
| ☐ | 70% | |
| ☒ | 65% | Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com |

Click to Save Answer & Move to Next Question

BT405:Quiz 01

Quiz Start Time: 01:07 AM, 19 August 2020

Question # 9 of 10 (Start time: 01:14:06 AM, 19 August 2020)

Total Marks: 1

The branch of science that deals with the chemical, physical and biological properties of surfaces is called

Select the correct option

☐	Physiology	
☐	Biochemistry	
☒	surface science	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Chemistry	

Click to Save Answer & Move to Next Question

BT405:Quiz 01

Quiz Start Time: 01:32 AM, 19 August 2020

Question # 1 of 10 (Start time: 01:32:54 AM, 19 August 2020)

Total Marks: 1

One of the significant parameter used in the estimation of the concentration of biodegradable organic pollutants present in a water sample is-----?

Select the correct option

☐	Biological oxygen demand	
☒	Biochemical oxygen demand	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Chemical oxygen demand	
☐	Catalytic oxidation	

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 01:33:54 AM, 19 August 2020)

Total Marks: 1

The branch of science that is concerned with the investigation and measurement of spectra produced when matter interacts with or emits electromagnetic (EM) radiation

Select the correct option

☐	Radiology	
☒	Spectroscopy	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Electroradiology	
☐	None of the given options	

Click to Save Answer & Move to Next Question



Question # 3 of 10 (Start time: 01:34:29 AM, 19 August 2020)

Total Marks: 1

Quantum dots are: _____ in nature.

Select the correct option

☒	Inorganic	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Organic	
☐	Biologic	
☐	Metallic	

Click to Save Answer & Move to Next Question



Question # 4 of 10 (Start time: 01:36:26 AM, 19 August 2020)

Total Marks: 1

DOXIL is:

Select the correct option

- ☐ Anti-bacterial drug
- ☐ Anti-viral drug
- ☐ Vaccine of Hepatitis
- ☒ Anti-cancer drug

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

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Question # 5 of 10 (Start time: 01:37:05 AM, 19 August 2020)

Total Marks: 1

The substance used in combination with a specific antigen that produced a more robust immunity than the antigen alone is -----?

Select the correct option

- ☐ Propagator
- ☒ Adjuvant
- ☐ Microbead
- ☐ Emulsifier

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

[Click to Save Answer & Move to Next Question](#)

Question # 6 of 10 (Start time: 01:38:52 AM, 19 August 2020)

Total Marks: 1

The quantum confinement effect is observed when the size of the nanoparticle is ----- to be comparable to the wavelength of the electron.

Select the correct option

☐	large	
☒	small	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	constant	
☐	equal to wavelength of electron	

Click to Save Answer & Move to Next Question



Question # 7 of 10 (Start time: 01:39:41 AM, 19 August 2020)

Total Marks: 1

The temperature stability of nanotubes in vacuum is

Select the correct option

☐	1900 °C	
☐	2300 °C	
☒	2800 °C	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	3200 °C	

Click to Save Answer & Move to Next Question



Question # 8 of 10 (Start time: 01:40:13 AM, 19 August 2020)

Total Marks: 1

Longitudinal twisting is an expression of a property of carbon nanotube which is -----?

Select the correct option

☒	Chirality	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Blending	
☐	Rotation	
☐	Both B and C	

[Click to Save Answer & Move to Next Question](#)

Question # 9 of 10 (Start time: 01:40:59 AM, 19 August 2020)

Total Marks: 1

The most common nanoscale substance used in consumer products is _____.

Select the correct option

☒	Nano-silver	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Nano-chlorine	
☐	Nano-copper	
☐	Nano-Zinc	

[Click to Save Answer & Move to Next Question](#)

Question # 1 of 10 (Start time: 02:00:52 AM, 19 August 2020)

Total Marks: 1

What does DNA microarray detect?

Select the correct option

- | | | |
|----------------------------------|--------------------|---|
| ☐ | Position of genes | |
| ☒ | Expression of gene | Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com |
| ☐ | Number of genes | |
| ☐ | Sequence of genes | |



Click to Save Answer & Move to Next Question



Question # 2 of 10 (Start time: 02:02:34 AM, 19 August 2020)

Total Marks: 1

PET stands for _____

Select the correct option

- | | | |
|----------------------------------|------------------------------|---|
| ☐ | Polyethylene terephthalate | |
| ☐ | Polyethylene tetra sulphate | |
| ☐ | Plasmon Emission Tomography | |
| ☒ | Positron Emission Tomography | Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com |

Click to Save Answer & Move to Next Question



Question # 3 of 10 (Start time: 02:03:19 AM, 19 August 2020)

Total Marks: 1

The sheet of nanotubes is made up of _____

Select the correct option

☐	Aluminum	
☒	Graphene	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Copper	
☐	Silver	

Click to Save Answer & Move to Next Question

Question # 4 of 10 (Start time: 02:05:07 AM, 19 August 2020)

Total Marks: 1

Diatoms are a type of _____ with nanostructured amorphous silica surfaces.

Select the correct option

☐	Fungi	
☒	Algae	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Bacteria	
☐	Polymers	

Click to Save Answer & Move to Next Question

Question # 5 of 10 (Start time: 02:05:43 AM, 19 August 2020)

Total Marks: 1

STM

Select the correct option

- ☐ Resonance Tunneling Microscope
- ☐ Resonance Tangent Microscope
- ☐ Scanning Tangent Microscope
- ☒ Scanning Tunneling Microscope

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

Question # 6 of 10 (Start time: 02:06:11 AM, 19 August 2020)

Total Marks: 1

What is grey goo-----?

Select the correct option

- ☒ A hypothetical substance composed of out-of-control self-replicating nanobots that consumes all living matter on Earth
- ☐ The feeder material used to grow grey nanoparticles in the laboratory
- ☐ Toxic byproduct resulting from the synthesis of carbon nanotubes
- ☐ Waste product from the production of nanoglue made from the membranes on the feet of the Madagascan Grey Gecko

Answer solved by Amaan Khan
Contact: 0305-4716616
Email: maniamaan2@gmail.com

Click to Save Answer & Move to Next Question

Question # 7 of 10 (Start time: 02:07:34 AM, 19 August 2020)

Total Marks: 1

Quantum confinement causes the energy of the band gap to -----?

Select the correct option

☒	Increase	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	
☐	Decrease		
☐	Remain Constant		
☐	Variable		

[Click to Save Answer & Move to Next Question](#)

Question # 9 of 10 (Start time: 02:08:50 AM, 19 August 2020)

Total Marks: 1

An amount of incident light is converted into an output current by:

Select the correct option

☒	solar cell	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com	
☐	Photodiodes		
☐	Optical Sensors		
☐	Reflective Sensors		

[Click to Save Answer & Move to Next Question](#)

Question # 10 of 10 (Start time: 02:10:30 AM, 19 August 2020)

Total Marks: 1

Inorganic crystals of CdSe (cadmium selenide 200-10000 atoms wide), coated with _____ emit fluorescent light when irradiated with low energy light

Select the correct option

☐	Na ₂ SO ₄	
☒	ZnS	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Ag ₂ SO ₄	
☐	NaCl	

Click to Save Answer & Move to Next Question



Question # 8 of 10 (Start time: 02:08:13 AM, 19 August 2020)

Total Marks: 1

_____ technology is used for point-of-care testing in real time, which enhance delivery of medical care

Select the correct option

☐	Nanowire	
☐	Nanorobots	
☒	Lab-on-chip	Answer solved by Amaan Khan Contact: 0305-4716616 Email: maniamaan2@gmail.com
☐	Micro-lab	

Click to Save Answer & Move to Next Question

