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age at a time

Grade 18.00 out of 20.00 (90%)

Question 1
Correct
Mark 2.00 out of 2.00
Flag question

In Nuclear reactions, the minimum energy required for a endothermic reaction to occur is termed as-

- total energy
- critical energy
- excess energy
- Threshold enegy ✔

The correct answer is: Threshold enegy

Question 2
Correct
Mark 2.00 out of 2.00
Flag question

Atomic bomb is a example of [uncontrolled chain reaction] ✔

uncontrolled reaction | control chain reaction | controlled reaction

The correct answer is:
Atomic bomb is a example of [uncontrolled chain reaction]

Question 3
Correct

A Charged sphere of 80 µC is placed in air. Find an Electric field Intensity at a point 20 cm

From the center of the sphere

Show all

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Question **3**

Correct

Mark 2.00 out of 2.00

Flag question

A Charged sphere of 80 μC is placed in air. Find an Electric field Intensity at a point 20 cm From the center of the sphere.

- 1.8×10^{4} N/C
- 1.8×10^{7} N/C
- 1.8×10^{6} N/C
- 18×10^{6} N/C ✖

The correct answer is: 1.8×10^{7} N/C

Question **4**

Correct

Mark 2.00 out of 2.00

Flag question

A Nuclear reaction is given by,

$$_5B^{10} + {}_2He^{4} \rightarrow {}_6C^{13} + {}_1H^{1}$$

Find energy of the reaction.

Given: Mass of Boron =10.016125 amu

Mass of Helium = 4.003874 amu

Mass of Carbon =13.007440 amu

Mass of Hydrogen =1.008146 amu

490 MeV

4.09 MeV ✔

- 490 MeV
- 4.09 MeV ✔
- 0.049 MeV
- 490 MeV

The correct answer is: 4.09 MeV

Question **5**

Correct

Mark 2.00 out of 2.00

Flag question

Two-point charges of value **1C** each are separated by distance **1m** in water medium. The force of repulsion **F** between them is -

(ε_r= 80 for Water medium & $\varepsilon_0=8.85\times10^{-12}$)

- 11×10^{9} N
- 9×10^{9} N
- 1.1×10^{8} N ✔
- 8.8×10^{8} N

The correct answer is: 1.1×10^{8} N

Question **6**

Incorrect

Mark 0.00 out of

Electrostatics Potential at a point due to charge of 50 μC at a distance of 15 cm from it is

Question 6
Incorrect
Mark 0.00 out of 2.00
Flag question

. Electrostatics Potential at a point due to charge of 50 µC at a distance of 15 cm from it is 30000 V ✖ .

The correct answer is:
Electrostatics Potential at a point due to charge of 50 µC at a distance of 15 cm from it is [3000000 V].

Question 7
Correct
Mark 2.00 out of 2.00
Flag question

Electric force per unit charge is termed as -

Electric potential
Electric Energy
Electric Work done
Electric Field Intensity ✔

The correct answer is: Electric Field Intensity

Question 8
Correct
Mark 2.00 out of 2.00
Flag question

A reactor is developing energy at the rate of 32 MW. How many atoms of $_{92}U^{235}$ undergo fission per second ? Assume that average energy of 200MeV is released per fission.

- 10^{17}
- 10^{8}
- 10^{12}
- 10^{18} ✔

The correct answer is: 10^{18}

Question 9
Correct
Mark 2.00 out of 2.00
Flag question

If a certain closed surface is having a total normal flux coming out from its entire surface is $2/\varepsilon_0$; then the total charge enclosed by the surface is

2C ✔ .

The correct answer is:
If a certain closed surface is having a total normal flux coming out from its entire surface is $2/\varepsilon_0$; then the total charge enclosed by the surface is [2

Question **9**

Correct

Mark 2.00 out of 2.00

Flag question

If a certain closed surface is having a total normal flux coming out from its entire surface is $2/\varepsilon_0$; then the total charge enclosed by the surface is

2C ✔ .

The correct answer is:
If a certain closed surface is having a total normal flux coming out from its entire surface is $2/\varepsilon_0$; then the total charge enclosed by the surface is [2C].

Question **10**

Correct

Mark 2.00 out of 2.00

Flag question

Determine Electric field and Potential in the air at a distance of 3cm from a charge of magnitude 6.5×10^{-2}C. ($\varepsilon_0=8.85\times10^{-12}$ C^2/Nm^2)

- $E=5\times10^{11}$N/C, $V=15\times10^{9}$V
- $E=1.5\times10^{4}$N/m, $V=5\times10^{6}$ V
- $E=6.5\times10^{11}$ N/C, $V=19.5\times10^{9}$V ✔
- $E=5\times10^{3}$ N/C, $V=1.5\times10^{4}$V

The correct answer is: $E=6.5\times10^{11}$ N/C, $V=19.5\times10^{9}$V