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GSC101:Grand Quiz

Question # 1 of 30 (Start time: 02:14:16 PM, 29 June 2021)

A stone of mass 2 kg dropped from a tower fall to the ground in 3 seconds. A second mass of 3 kg dropped from the same height reaches the ground in:

Select the correct option

○	2 seconds
●	3 seconds
○	6 seconds
○	4.5 seconds

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GSC101:Grand Quiz

Question # 2 of 30 (Start time: 02:15:17 PM, 29 June 2021)

Efficiency can also be defined as:

Select the correct option

●	useful output power ÷ input power
○	input power ÷ total output power
○	input power × useful output power
○	useful output power ÷ input energy

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GSC101:Grand Quiz

Question # 3 of 30 (Start time: 02:15:54 PM, 29 June 2021)

Gradient of line of Velocity-time graph is representing _____ .

Select the correct option

○	Speed
○	Velocity
○	Distance
●	Acceleration

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GSC101:Grand Quiz

Question # 4 of 30 (Start time: 02:16:41 PM, 29 June 2021)

Of the three variables (i) speed, (ii) velocity and (iii) direction. Linear acceleration can change

Select the correct option

●	(i), (ii) and (iii)
○	(ii) and (iii)only
○	(i) only
○	(i) and (ii)only

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GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 5 of 30 (Start time: 02:17:10 PM, 29 June 2021)

Total Marks: 1

The colors that make up white light are called----------?

Select the correct option

- [x] Visible spectrum
- [ ] Rainbow
- [ ] Prism
- [ ] Energy waves

GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 6 of 30 (Start time: 02:17:42 PM, 29 June 2021)

Total Marks: 1

In cold areas during winters pipes which are not properly insulated may burst due to:

Select the correct option

- [ ] real expansion of water
- [ ] apparent expansion of water
- [ ] expansion of pipes
- [x] anomalous expansion of water

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GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 7 of 30 (Start time: 02:18:12 PM, 29 June 2021)

Total Marks: 1

The example of giant molecule is_____

Select the correct option

- ○ SiC
- ● Diamond
- ○ AgCl
- ○ AlN

Click to Save Answer & Move to Next Question

GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 8 of 30 (Start time: 02:19:01 PM, 29 June 2021)

Total Marks: 1

a derived unit is created when:

Select the correct option

- ● two or more fundamental units are multiplied or divided
- ○ two or more fundamental units are added or subtracted
- ○ two or more fundamental units are added and divided
- ○ two or more fundamental units are subtracted and multiplied

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GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 9 of 30 (Start time: 02:19:33 PM, 29 June 2021)

Total Marks: 1

A plane flies west at a speed of 300 km per hour for one hour. It then turns South and flies at the same speed of 300 km per hour for a further 1½ hours. Its average speed is:

Select the correct option

- (●) 300 km per hour
- ( ) 100 km per hour
- ( ) 200 km per hour
- ( ) 450 km per hour

GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 10 of 30 (Start time: 02:20:06 PM, 29 June 2021)

Total Marks: 1

When mercury level rises in the clinical thermometer, the mercury in capillary tube does not contract because?

Select the correct option

- ( ) Mercury takes a long time to contract
- ( ) The capillary tube is very narrow
- ( ) The amount of mercury use is very small
- (●) The capillary tube has a small constriction near the bulb

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GSC101:Grand Quiz — Quiz Start Time: 02:14 PM, 29 June 2021

Question # 11 of 30 (Start time: 02:20:42 PM, 29 June 2021) — **Total Marks:** 1

Work done depends upon (i) force (ii) distance moved (iii) angle between direction of force and displacement. Which line is correct if work done is not zero:
Force angle displacement

Select the correct option

- (●) greater than zero degrees greater than zero / zero
- ( ) zero 90 degrees zero
- ( ) greater than 90 degrees greater than zero / zero
- ( ) zero zero degrees zero

GSC101:Grand Quiz — Quiz Start Time: 02:14 PM, 29 June 2021

Question # 12 of 30 (Start time: 02:21:14 PM, 29 June 2021) — **Total Marks:** 1

A man started his walk from main gate of park and after completing two rounds of track of 100 meters in 10 minutes he came back to the main gate. What is value of his total displacement?

Select the correct option

- ( ) 100 meters
- ( ) 200 meters
- (●) Zero
- ( ) 10 meters

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GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 13 of 30 (Start time: 02:21:46 PM, 29 June 2021)

Total Marks: 1

A fundamental quantity e.g. a length of one meter, has:

Select the correct option

- error as it is an experimentally verified quantity so imperfect.
- no error as it is by definition a perfect value
- error as it is a theoretical value and so cannot be perfect
- no error as it is an experimentally verified quantity so perfect.

GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 14 of 30 (Start time: 02:22:16 PM, 29 June 2021)

Total Marks: 1

Which of the following is a derived unit:

Select the correct option

- Ampere
- Newton
- Kelvin
- Kilogram

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GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 15 of 30 (Start time: 02:22:56 PM, 29 June 2021) **Total Marks: 1**

The rate of reaction of organic compounds is very slow due to _____.

Select the correct option

- ○ Metallic bonding
- ○ Coordinate covalent bonding
- ● Covalent bonding
- ○ Ionic bonding

GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 16 of 30 (Start time: 02:23:23 PM, 29 June 2021) **Total Marks: 1**

The anomalous behavior of water can be seen at temperature _____.

Select the correct option

- ○ 32 F
- ○ 0 K
- ● 4 C
- ○ 100 C

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GSC101:Grand Quiz — Quiz Start Time: 02:14 PM, 29 June 2021

Question # 17 of 30 (Start time: 02:23:54 PM, 29 June 2021) — Total Marks: 1

The atom, which provides the electron pair, is called_____

Select the correct option

- (●) Donor
- ( ) accepter
- ( ) gainer
- ( ) receiver

GSC101:Grand Quiz — Quiz Start Time: 02:14 PM, 29 June 2021

Question # 18 of 30 (Start time: 02:24:24 PM, 29 June 2021) — Total Marks: 1

The amount of energy released or absorbed when elections are added in a atom is known as_____.

Select the correct option

- ( ) Ionization energy
- (●) Electron affinity
- ( ) Activation energy
- ( ) Electronegativity

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GSC101:Grand Quiz — Quiz Start Time: 02:14 PM, 29 June 2021

Question # 19 of 30 (Start time: 02:24:51 PM, 29 June 2021) — Total Marks: 1

The composition (by mass) of Fe in stainless steel is_____percent

Select the correct option

- 96%
- 98%
- 67%
- ● 80.6%

GSC101:Grand Quiz — Quiz Start Time: 02:14 PM, 29 June 2021

Question # 20 of 30 (Start time: 02:25:15 PM, 29 June 2021) — Total Marks: 1

Efficiency is defined as:

Select the correct option

- ● useful output energy ÷ input energy
- input energy × useful output energy
- input energy ÷ total output energy
- total output energy × input energy

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GSC101:Grand Quiz — Quiz Start Time: 02:14 PM, 29 June 2021

Question # 21 of 30 (Start time: 02:25:50 PM, 29 June 2021) — Total Marks: 1

The amount of work done by a Force of 5 N pulling a mass of 5 kg, 5m along a rough floor in the direction of the applied force is

Select the correct option

- (●) 25 J
- ( ) 125 J
- ( ) 5 J
- ( ) 50 J

GSC101:Grand Quiz — Quiz Start Time: 02:14 PM, 29 June 2021

Question # 22 of 30 (Start time: 02:26:32 PM, 29 June 2021) — Total Marks: 1

Which of the metal exists in Liquid state at room temperature?

Select the correct option

- ( ) Fe (Iron)
- ( ) Cu (Cupper)
- ( ) Al (Aluminum)
- (●) Hg (Mercury)

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GSC101:Grand Quiz — Quiz Start Time: 02:14 PM, 29 June 2021

Question # 23 of 30 (Start time: 02:27:02 PM, 29 June 2021) — Total Marks: 1

The fundamental unit of mass is:

Select the correct option

- (●) kilogram
- ( ) gram
- ( ) ounce
- ( ) pound

GSC101:Grand Quiz — Quiz Start Time: 02:14 PM, 29 June 2021

Question # 24 of 30 (Start time: 02:27:27 PM, 29 June 2021) — Total Marks: 1

White light separates into different colors after passing through a ----------:

Select the correct option

- ( ) Hammer
- (●) Prism
- ( ) Camera
- ( ) Mirror

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GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 25 of 30 (Start time: 02:28:02 PM, 29 June 2021) **Total Marks: 1**

A motion of a pendulum of a clock is an example of

Select the correct option

- (●) vibratory motion
- ( ) circular motion
- ( ) random motion
- ( ) translatory motion

GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 26 of 30 (Start time: 02:28:34 PM, 29 June 2021) **Total Marks: 1**

A mass is projected vertically downwards. Just at the point of release with the ground its total energy is:

Select the correct option

- ( ) 50% Gravitational Potential and 50% Kinetic Energy
- ( ) 25% Gravitational Potential and 75% Kinetic Energy
- ( ) 0% Gravitational Potential and 100% Kinetic Energy
- (●) 100% Gravitational Potential and 0% Kinetic Energy

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GSC101:Grand Quiz — Quiz Start Time: 02:14 PM, 29 June 2021

Question # 27 of 30 (Start time: 02:28:58 PM, 29 June 2021) — Total Marks: 1

Concave mirror formed an inverted image if distance between mirror and object is _____.

Select the correct option

- ○ Less than its focal length
- ○ None of above
- ● More than its focal length
- ○ Exactly at its focal length

GSC101:Grand Quiz — Quiz Start Time: 02:14 PM, 29 June 2021

Question # 28 of 30 (Start time: 02:29:29 PM, 29 June 2021) — Total Marks: 1

The M.P of Caustic soda is _____ degree centigrade

Select the correct option

- ● 318
- ○ 95
- ○ 100
- ○ 801

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GSC101:Grand Quiz

Quiz Start Time: 02:14 PM, 29 June 2021

Question # 29 of 30 (Start time: 02:30:01 PM, 29 June 2021)

Total Marks: 1

If the object is placed ----------, then the image formed by a concave mirror is virtual, erect and magnified:

Select the correct option

- ○ At the focus
- ○ Beyond the centre of curvature
- ● Between the pole of the mirror and the focus
- ○ At the centre of curvature

GSC101:Grand Quiz

Question # 30 of 30 (Start time: 02:30:32 PM, 29 June 2021)

If wavelength of an electromagnetic wave reduced to half of original at constant speed, the frequency of this wave will be _____.

Select the correct option

- ● Increases 2 times
- ○ Decreases 2 times
- ○ Increases 1/2 times
- ○ Decreases 1/2 times