

## PU M Sc Disaster Management

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In hydro-power generation:-

- Mechanical energy is converted into electrical energy
- Chemical energy is converted into electrical energy
- Nuclear energy is converted into electrical energy
- heat is converted into electrical energy

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The age of the earth is:-

- 2 million years
- 10.5 billion years
- 7.5 billion years
- 4.5 billion years

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Tides are caused by:-

- Attraction of moon and sun and rotation of earth
- attraction of moon
- mutual attraction of sun and moon
- rotation of the earth

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Bending of rays is:-

- Reflection
- Deflection
- Migration
- Refraction

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The periodic table is arranged according to the:-

- Atomic weight
- Atomic number
- abundant elements

Mass

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Large Movement of water in one direction is called:-

Oscillations

Dispersion

Current

Amplitude

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In which of the following does the sound travel faster:-

Solid

Air

Vacuum

Liquid

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Faults are fractures with:-

Angular unconformity

lineation

No displacement

shear displacement

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Tsunami waves are caused by:-

Earthquakes

Storm surge

Cyclone

Tornado

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Two third of earth is composed of:-

Rocks

Water

Air

Ice

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99% of air comprise of:-

Nitrogen and Oxygen

Helium

Hydrogen

Water vapour

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Seismograph is an instrument which measures:-

Radio waves

Earthquake waves

Electromagnetic waves

Oscillatory wave

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A flat topped high land is called as:-

Peak

hill

Mountain

Plateau

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The property of Total internal reflection can be seen in:-

Diamond

Silver

Iron

Gold

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80 g of oxygen contains as many atoms as in:-

1 g of hydrogen

5 g of hydrogen

80 g of hydrogen

- 10 g of hydrogen

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Crator lake is formed by:-

- Glaciers  
 Landslide  
 Earthquake  
 Volcano

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Sun emits incessant rays because of :-

- reflection  
 nuclear fusion  
 nuclear fission  
 refraction

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A buffer solution contains 0.1 mole of sodium acetate dissolved in 1000 cm<sup>3</sup> of 0.1 M acetic acid. To the above buffer solution, 0.1 mole of sodium acetate is further added and dissolved. The pH of the resulting buffer is equal to \_\_\_\_\_.

- pKa - Log2  
 pKa  
 pKa + Log2  
 pKa + 2

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Cube root of 125 is:-

- 7  
 5  
 3  
 9

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The place of origin of earthquakes is known as:-

- Epicentre  
 Centre

- Focus
- Latitude

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Which of the following has the highest bond order?

- O<sub>2</sub>
- H<sub>2</sub>
- He<sub>2</sub>
- N<sub>2</sub>

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Earth is composed of:-

- Mantle, core
- Crust, mantle, core
- crust only
- Crush, mantle

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Faulting is a:-

- brittle mechanism
- Rigid mechanism
- convection phenomena
- Ductile mechanism

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Which of the following does not give benzoic acid on hydrolysis?

- methyl benzoate
- phenyl cyanide
- benzyl chloride
- benzoyl chloride

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Plate tectonic theory explains that:-

- plates are not moving
- plates are moving in relation to other plates

- plates are uniform
- Plates are stationary

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The children blow through the hole using soap water to make bubble. The phenomenon observed is due to:-

- Capillary action
- Inertia
- Surface tension
- Reflection

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Humidity indicates:-

- Water vapour
- Pressure
- Force
- Temperature

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When tsunami comes, the better way is to:-

- move to a lowlying areas
- stay Inside the car
- move to a higher land
- Wait till tsunami recede

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2004 Great Sumatra-Andaman Earthquake is due to:-

- normal fault
- Reverse (Thrust) fault
- Listric fault
- Strike slip fault

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Cyclone is a:-

- Extra tropical phenomena

- High pressure system
- a polar phenomena
- Low pressure system

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Friction generates:-

- Liquid
- cooling
- heat
- Gas

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Isotopes contain:-

- Same number of neutrons but different number of protons
- Same number of electrons but different protons
- Same number of protons with different number of electrons
- Same number of proton but different number of neutrons

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Dunes are formed by:-

- Wind
- Glacier
- River
- Waves

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Which is of the following have charge:-

- Neutrons
- Protons and electrons
- Protons
- Electrons

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Sun generates energy by:-

- Nuclear fission

- Refraction
- Nuclear fusion
- Scattering

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Change in position is called:-

- translation
- Spinning
- rotation
- Revolution

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Continental drift was first suggested by:-

- Einstein
- Louis paseur
- Newton
- Alfred Wegener

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Ice age :-

- Crataceous period
- Miocene period
- Cambrian period
- Pleistocene period

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Global warming is due to the emission of:-

- Greenhouse gases
- Volatile gases
- Inert gases
- Poisonous gases

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Landslide occurs due to:-

- Stable slope



- Unstable slope, heavy rain, gravity
- Gravity
- Heap of sediments

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In thermometer, which metal is used:-

- Platinum
- Silver
- Mercury
- Lead

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Bronze is an Alloy of:-

- Zinc and Copper
- Iron and aluminium
- Iron and lead
- Aluminium and lead

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The upper crust is mostly:-

- Plastic
- Elastic-brittle
- elastic-ductile
- Rigid

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The liquid metal at room temperature is:-

- Mercury
- Potassium
- Iron
- Sodium

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The major component of the atmosphere is:-

- Nitrogen

- CO<sub>2</sub>
- Hydrogen
- Oxygen

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Waves are caused by:-

- Currents
- Wind
- Temperature
- Pressure

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Gulf stream is found near:-

- Alaska
- Greenland
- California
- Florida

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Which of the following is used to prepare Cl<sub>2</sub> gas at room temperature from concentrated HCl?

- MnO<sub>2</sub>
- KMnO<sub>4</sub>
- H<sub>2</sub>S
- Cr<sub>2</sub>O<sub>3</sub>

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Air pollution causes:-

- Fever
- Cancer
- Hearing problem
- Asthma and bronchitis

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Centripetal force is the force moving:-

- away from the centre

- upwards
- towards the centre
- rightwards

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A covalent molecule AB<sub>3</sub> has pyramidal structure. The number of lone pair and bond pair electrons in the molecule are respectively:-

- 1 and 3
- 3 and 1
- 0 and 4
- 2 and 2

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Air moves from:-

- Low pressure to High pressure
- Low temperature to high temperature
- High pressure to high temperature
- High pressure to low pressure

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Seasons are caused because of:-

- Moon
- tilting and rotation of Earth
- Gravity
- Sun

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Subduction is a process of:-

- Plates move laterally
- one plate riding over another plate
- plates diverting each other
- One plate going below another plate

**55 of 100**

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Seamounts are located at:-

- Continental slope
- Coast
- Continental shelf
- Ocean floor

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Acid rain occurs when:-

- Hydrogen combines with water
- SO<sub>2</sub> combines with moisture
- CO<sub>2</sub> combines with moisture
- Amonia combines with water

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Hookes law states:-

- Stress is proportional to strain
- strain is not proportional to stress
- Force per unit area
- Plastic deformation is recoverable

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Which one of the following has the longest wavelength?

- Infrared rays
- Radio waves
- X ray
- uv ray

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A buffer solution is prepared in which the concentration of NH<sub>3</sub> is 0.30 M and the concentration of is 0.20 M. If the equilibrium constant, K<sub>b</sub> for NH<sub>3</sub> equals 1.8 10<sup>5</sup>, what is the pH of this solution?

- 11.72
- 9.43
- 9.08
- 8.73

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Rocks formed from magma are called as:-

- Metamorphic rocks
- Sedimentary rocks
- Igneous rocks
- Brittle rocks

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Plate tectonic concepts demonstrates that Indian plate is moving towards:-

- South
- East
- North
- West

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Black smokers in the sea emits

- Methane
- Sulphides
- Oxygen
- CO<sub>2</sub>

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Highest rank coal is:-

- Bituminous
- Lignite
- Peat
- Anthracite

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The only Volcanic Island of India is:-

- Minicoy Island
- Androth island
- Barren Island
- Kavaratti Island

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Which is the hardest among the following:-

- Gold
- Platinum
- Silver
- Diamond

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Climate is a phenomenon of:-

- Shorter period
- Longer period
- Glacial period
- Ancient period

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A 6% solution of urea is isotonic with:-

- 1 M solution of Glucose
- 0.05 M solution of Glucose
- 6% solution of Glucose
- 25% solution of Glucose

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The pressure exerted by air is called as:-

- Lithospheric pressure
- atmospheric pressure
- Low pressure
- Hydrostatic pressure

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Combustion is a:-

- Physical process
- chemical process
- Ionic process
- Magnetic process

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Fossils are:-

- preserved harder part of dead organism
- living organism
- Dead organism
- wood

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The difference between speed and velocity is that velocity has:-

- Magnitude and Direction
- Direction only
- Magnitude only
- Amplitude

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Asthenosphere is in:-

- core
- mantle
- crust
- atmosphere

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Shortsightedness can be corrected by:-

- Biconvex
- Biconcave
- Concave lens
- Convex lens

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Percentage of 3:4 ratio is:-

- 25%
- 75%
- 50%
- 60%

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Waves on the ocean surface are caused by

- Pressure
- Moon
- Temperature
- Wind

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Big Bang theory relates to the origin of:-

- Sun]>
- Moon
- Earth
- Universe

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The shape of the earth is:-

- sphere
- Oblate spheroid
- Circle
- Ellipse

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In Motor vehicles, the mirror fitted in the front to view the rear portion is a:-

- Convex mirror
- Ordinary mirror
- Plane mirror
- Concave mirror

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Hot spots are known for:-

- Seismicity
- flood
- Tornado
- landslides

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Rock is an aggregates of:-

- sand
- clay
- minerals
- soil

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Sublimation is a process of change of:-

- solid to Liquid
- gas to liquid
- liquid to solid
- Solid to gas

**82 of 100**

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Ozone layer filters

- Visible ray
- X ray
- Ultraviolet ray
- infrared ray

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Oasis can be seen at:-

- Poles
- Arid places
- Temperate places
- Cold places

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Change in volume/size is called:-

- Distortion
- Dilation
- Reflection
- Torsion

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Snells law pertains to:-

- angle of reflection
- Diffraction
- angle of refraction
- angle of incidence and refraction

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Which of the following gives an aldehyde on dry distillation?

- Calcium benzoate
- Calcium acetate
- Calcium formate + calcium acetate
- Calcium acetate + calcium benzoate

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A complex compound in which the oxidation number of a metal is zero is:-

- $K_4 [Fe (CN)_6]$
- $K_3 [Fe (CN)_6]$
- $[Ni (CO)_4]$
- $[Pt (NH_3)_4]Cl_2$

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Andaman & Nicobar islands lie in the seismic zone:-

- V
- I
- II
- III

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Near the equator, the following causes a cyclone:-

- High pressure and High temperature
- Low pressure and Low temperature
- Low pressure and high temperature
- High pressure and low temperature

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Mirage is caused due to:-

- Distance
- Air
- Atmospheric reflection of hot air
- atmospheric refraction of hot air

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Earthquakes mostly occur at:-

- Plateau
- Uplands
- Low lying areas
- plate margins

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When Plastic rocks are subjected to compression:-

- fold is formed
- unconformity is formed
- fault is formed
- Joints are formed

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Semi-enclosed body of water that have a free connection with sea and river is called

- Estuary
- Wetland
- Swamp
- Beach ridge

**94 of 100**

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A bivalent metal has an equivalent mass of 32. The molecular mass of the metal nitrate is:-

- 192
- 182
- 168
- 188

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Aurora light appear at:-

- Exosphere
- Troposphere
- Equator
- Poles

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A compound of 'A' and 'B' crystallises in a cubic lattice in which the 'A' atoms occupy the lattice points at the corners of the cube. The 'B' atoms occupy the centre of each face of the cube. The probable empirical formula of the compound is:-

- $AB_2$
- $A_3B$
- $AB_3$
- AB

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Rusting is an example of:-

- Ionisation
- Hydration
- Carbonation
- Oxidation

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The Himalaya formed by the collision of:-

- Indian plate and Eurasian plate
- Indian plate and Pacific plate
- Indian plate and Australian plate
- African and Indian plate

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The Difference between Mass and weight is:-

- Pressure influence weight
- Temperature influence weight
- Magnetic property influence in weight
- Gravity influence in Weight

100 of 100

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Rain clouds are:-



Cirrus



stratus



Nimbus



cumulonimbus