

379 PU M Sc Disaster Management

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Among the following, which is least acidic?

- phenol
- p-nitrophenol
- O-cresol
- p-chlorophenol

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Among the following, the compound that contains ionic, covalent and coordinate linkage is:-

- NaCl
- CaO
- NH₃
- NH₄Cl

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The planet which contributes maximum to the angular momentum of the solar system is:-

- Mars
- Earth
- Jupiter
- Saturn

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Earthquake mostly occur at:-

- Uplands
- Plateau
- Low lying areas
- Plate margins

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Which of the following group of countries is most famous for exporting wool and meat?

- Australia, Argentina, New Zealand
- Australia, Sri Lanka, Indonesia
- Argentina, France, Chile

- New Zealand, Argentina, Italy

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Which of the following industries is most developed in the Great Lakes region of North America?

- Textile and Chemicals
- Cement and Paper
- Film industry
- Steel and Engineering

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Faulting is a:-

- rigid mechanism
- brittle mechanism
- convection mechanism
- ductile mechanism

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Climate is a phenomenon of:-

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

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An object that has kinetic energy must be:-

- at rest
- moving.
- at an elevated position.
- falling.

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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 protons but different number of neutrons

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Which of the following landform is not associated with glaciation?

- Hanging valley
- Drumlin
- Moraines
- Inselberg

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Which of the following landforms is different from other three on the basis of the mode of origin?

- Anticline
- Nappes
- Fold
- Rift Valley

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Which of the following state groups is the largest producer of iron-ore in India?

- Maharashtra, Orissa, Andhra Pradesh
- Orissa, Madhya Pradesh, Bihar
- Madhya Pradesh, Maharashtra, Punjab
- Bihar, W. Bengal, Orissa

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Ozone layer is located at the height of:-

- 150 km
- 200 km
- 20-50 km
- 500 km

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The continental crust is mainly made up of:-

- pyroxene
- Felsic
- Mafic

- olivine

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Aeroplane flies in the:-

- Exosphere
- Ozone layer
- Troposphere
- Mesosphere

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From which of the following longitude the Indian standard time is determined?

- 80° West
- 82° 30' East
- 90° East
- 81° 30' East

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During hydropower generation:-

- Heat energy is converted into electrical energy
- Mechanical energy is converted into Electrical energy
- Chemical energy is converted into electrical energy
- Nuclear energy is converted into electrical energy

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One end of a long, uniform log is raised to shoulder level. Another identical log is raised at its center to the same level. Raising the second log requires about:-

- twice as much work.
- the same amount of work.
- more than twice as much work.
- Less than twice

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An object that has potential energy may have this energy because of its:-

- acceleration.
- location

- speed.
- momentum.

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Which of the following landform is **not** associated with river erosion?

- Ox-bow lake
- Waterfall
- V-shaped valley
- Moraines

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A movement of water in one direction is called:-

- Oscillations
- Amplitude
- Current
- Dispersion

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Bullets are fired from an airplane in the forward direction of motion. The momentum of the airplane will be:-

- decreased.
- increased.
- unchanged.
- doubled

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When Tsunami occurs, the better way is to:-

- Move to a lowlying areas
- Stay back wherever you are
- Move to a higher ground
- Wait till it receds

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In convergent plate tectonic setting, thickest continental lithosphere is associated with:-

- Ocean-ocean divergent setting
- Ocean-continent convergent setting
- Continent-continent collision setting
- Ocean-Ocean convergent setting

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Which is not the correct statement about RNA and DNA?

- DNA is active in virus where RNA never appears in virus
- DNA contains deoxyribose as its sugar and RNA contains ribose
- DNA exists as dimer while RNA is usually single stranded
- RNA contains uracil in place of thymine (found in DNA) as a base

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The oceanic crust is mainly made up of:-

- Felsic
- Mafic
- Olivine
- Pyroxene

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Which of the following oceans are connected by Panama Canal?

- Pacific and Atlantic
- Atlantic and North Ocean
- Indian Ocean and Pacific
- Atlantic and Indian Ocean

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The upper crust is mostly:-

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

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The value of earth's gravity varies with:-

- A) Altitude
- B) Latitude
- C) Both A & B
- D) none

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Which of the following latitude is the longest?

- 0°
- 80°N
- 23°N
- 66°N

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Change in position horizontally is called:-

- Rotation
- Translation
- Spinning
- Revolution

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Highest rainfall is recorded at:-

- Andaman
- Kerala
- Assam
- Meghalaya

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Which of the following rock is different from the remaining three on the basis of its mode of origin?

- Limestone
- Sandstone
- Shale
- Marble

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Mirage is caused due to:-

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

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Which one of the following is a strong acid?

- HNO_3
- CaSO_4
- NaOH
- NH_3

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Which of the following order is given to the planets of solar system on the basis of their size?

- Saturn, Jupiter, Mercury, Neptune
- Neptune, Mercury, Saturn, Jupiter
- Jupiter, Saturn, Neptune, Mercury
- Jupiter, Mercury, Neptune, Saturn

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Variation of the geomagnetic field observed over the last 500 years indicates that the dipole moment of earth's magnetic field has been:-

- decreasing
- constant
- increasing
- fluctuating

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Two places on the same meridian must have the same:-

- Length of winter
- Length of summer
- Latitude
- Solar time

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An element with atomic number 21 is a:-

- representative element
- alkali metal
- transition element
- halogen

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Tsunamis are:-

- capillary waves
- acoustic waves
- gravity waves
- internal waves

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A volcanic explosion forming a central depression is known as:-

- Caldera
- Dyke
- Crater
- Sill

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The temperature of the center of the earth is estimated to be:-

- < 3000°C
- 2000°C <3000°C
- > 4000°C
- < 1000°C

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Which of the following soils is most suitable for the cultivation of cotton in India?

- Red soil
- Regur soil
- Laterite soil
- Alluvial soil

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Earthquake is an example of:-

- Weathering process
- Exogenetic forces
- Endogenic process
- All of the above

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The deflection of ocean currents in the northern and southern hemispheres is due to:-

- monsoon effect
- El Nino effect
- Coriolis effect
- thermohaline circulation

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As we go higher into the atmosphere, the air becomes:-

- Thinner
- Visible
- Denser
- Warmer

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The periodic table is table is arranged according to:-

- Atomic number
- Abundance elements
- Atomic weight
- Mass

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An aqueous solution containing 6.5 gm of NaCl of 90% purity was subjected to electrolysis. After the complete electrolysis, the solution was evaporated to get solid NaOH. The volume of 1 M acetic acid required to neutralize NaOH obtained above is:-

- 2000 cm³
- 100 cm³
- 1000 cm³
- 200 cm³

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Two identical arrows, one with twice the kinetic energy of the other, are fired into a hay bale. The faster arrow will penetrate:-

- twice as far as the slower arrow.
- four times as far as the slower arrow.
- more than four times as far as the slower arrow
- the same distance as the slower arrow.

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An alkyl halide reacts with alcoholic ammonia in a sealed tube, the product formed will be:-

- a primary amine
- a tertiary amine
- a secondary amine-
- a mixture of all the three

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Human cannot hear sound less than:-

- 1000 Hz
- 300 Hz
- 500 Hz
- 20 Hz

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The depositional feature that forms where a stream emerges from a mountainous region onto a plain is called:-

- alluvial fan
- natural levee
- point bar
- delta

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The epicenter of deep focus earthquake is located:-

- Between 70-300km
- Below a depth of 70km
- Below 300km

- On the earth's surface

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Body waves in earthquakes is/are:-

- A) P waves
- B) S waves
- C) L waves
- D) Both A & B

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Which of the following statements is TRUE for the temperature variation with altitude in the earth's atmosphere?

- Temperature decreases in both stratosphere and mesosphere
- Temperature increases in both stratosphere and mesosphere
- Temperature increases in stratosphere and decreases in mesosphere
- Temperature decreases in stratosphere and increases in mesosphere

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Gabbro is example of:-

- sedimentary rock
- Igneous rock
- metamorphic rock
- remetamorphosed rock

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Acid rain occurs when:-

- CO₂ combines with moisture
- Ammonia combines with water
- Hydrogen combines with water
- SO₂ combines with moisture vapour

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Which one is the hardest?

- Diamond
- Silver

- Gold
- Plinitum

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Hanging valleys are formed by the geological action of:-

- wind
- glacier
- river
- ocean

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222 PU_2016_379_M

A Newton is equal to which of the following?

- kilogram-meter per second squared
- meter per second squared
- kilogram-meter per second
- kilogram per meter-second

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224 PU_2016_379_M

Work is equal to which of the following?

- the cross product of force and displacement.
- the product of force times time
- the dot product of force and displacement
- force divided by time

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226 PU_2016_379_M

As defined in physics, work is:-

- a scalar quantity
- a vector quantity
- always a positive quantity
- always zero

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Which one of the following is not a greenhouse gases:-

- Methane
- CO₂

- Nitrogen
- Water vapour

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253 PU_2016_379_M

The value of G, the Universal gravitational constant, was measured experimentally by:-

- Cavendish
- Copernicus
- Newton
- Kepler

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241 PU_2016_379_M

A standing wave is formed on a tightly stretched string. The distance between a node and an antinodes is:-

- 1 wavelength
- 1/2 wavelength
- 1/8 wavelength
- 1/4 wavelength

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223 PU_2016_379_M

For an object moving in uniform circular motion, the direction of the instantaneous acceleration vector is:-

- tangent to the path of motion
- directed radially inward
- equal to zero
- directed radially outward

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The work done by a friction force is:-

- always positive
- always zero
- always negative
- either positive or negative depending upon the situation

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244 PU_2016_379_M

Whose principle or law states that each point on a wave front may be considered a new wave source? Is it:-

- Young's Law

- Hertz's Law
- Snell's Law
- Huygen's Principle

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Two steel balls are at a distance S from one another. As the mass of ONE of the balls is doubled, the gravitational force of attraction between them is:-

- quartered
- quadrupled
- halved
- doubled

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229 PU_2016_379_M

A ball leaves a girl's hand with an upward velocity of 6 meters per second. What is the maximum height of the ball above the girl's hand?

- 1 meter
- 2.8 meters
- 1.8 meters
- 0.5 meter

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252 PU_2016_379_M

The time needed for a net force of 10 Newton's to change the velocity of 5 kilograms mass by 3 meters/second is:-

- 6 seconds
- 1.5 seconds
- 150 seconds
- 16.7 seconds

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228 PU_2016_379_M

Two forces have magnitudes of 11 Newton and 5 Newton. The magnitude of their sum could NOT be equal to which of the following values?

- 16 Newton's
- 7 Newton's
- 9 Newtons
- 5 Newtons

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A pendulum which is suspended from the ceiling of a railroad car is observed to hang at an angle of 10 degrees to the right of vertical. Which of the following answers could explain these phenomena?

- The railroad car is at rest.
- The railroad car is accelerating to the right
- The railroad car is accelerating to the left.
- The railroad car is moving with constant velocity to the right.

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242 PU_2016_379_M

When a physical property such as charge exists in discrete "packets" rather than in continuous amounts, the property is said to be:-

- quantized
- discontinuous
- noncontinuous
- abrupt

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220 PU_2016_379_M

For the hydrogen atom, which series describes electron transitions to the $N=1$ orbit, the lowest energy electron orbit? Is it the:-

- Paschen series
- Pfund series
- Lyman series
- Balmer series

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250 PU_2016_379_M

A worker lifts a 10 kilogram block a vertical height of 2 meters. The work he does on the block is:-

- 200 Joules
- 20 Joules
- 5 Joules
- 49 Joules

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251 PU_2016_379_M

An impulse of 10 kilogram-meters per second acting on an object whose mass is 5 Kilogram will cause a change in the objects velocity of:-

- 2 meters per second
- 10 meters per second
- 50 meters per second

- 0.5 meters per second

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221 PU_2016_379_M

Bronze is an alloy of:-

- Iron and Lead
- Iron and Aluminium
- Zinc and copper
- Aluminium and Lead

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243 PU_2016_379_M

An organ pipe which is open at both ends resonates at its fundamental frequency. Neglecting any end effects, what wavelength is formed by this pipe in this mode of vibration if the pipe is 2 meters long?

- 8 meters.
- 2 meters
- 6 meters
- 4 meters

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290 PU_2016_379_D

Solar eclipse occurs when:-

- Moon and earth on either side of the sun
- Earth comes in between sun and moon
- Moon comes in between earth and sun
- Sun comes in between earth and moon

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291 PU_2016_379_D

How thick is the crust of the Earth?

- About 40 km
- About 4 km
- About 4 miles
- About 400 km

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280 PU_2016_379_D

The ideal climatic conditions for the cultivation of rice are:-

- Rainfall below 100 cm, temperature below 25° C
- Cool and moist climate for the entire crop period

- Warm and dry climate during the entire crop period
- Rainfall above 100 cm, temperature above 25° C

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265 PU_2016_379_D

A place having an average temperature of 27° C and an annual rainfall of over 200 cm, it could be?

- Moscow
- Tehran
- Nagpur
- Singapore

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268 PU_2016_379_D

Oasis is found at:-

- Temperate places
- Cold places
- Poles
- Arid places

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269 PU_2016_379_D

Sucrose content in sugarcane decreases:-

- if there is high temperature during the time of ripening
- if frost occurs during the process of ripening
- if high rainfall occurs during the period of growth of the plant
- if there is fluctuation in temperature during the period of growth of the plant

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292 PU_2016_379_D

The layer that separates crust from core is the?

- Mantle
- Continent
- Lithosphere
- Magma layer

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294 PU_2016_379_D

In general, igneous rocks:-

- Form by crystallization of solids from a liquid
- Form at relatively high temperatures

- Form at high and low pressures
- All of these

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262 PU_2016_379_D

The country that has the greatest length of the day during summer is:-

- Nigeria
- Australia
- Norway
- Mexico

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267 PU_2016_379_D

Auroras light appear at:-

- Poles
- Equator
- Troposphere
- Exosphere

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266 PU_2016_379_D

Extensive subsistence agriculture is:-

- Farming in the thickly populated areas
- Farming in the forests of equatorial region
- Farming on the slopes of Western Ghats
- Farming in the thinly populated areas

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282 PU_2016_379_D

Rusting is:-

- Carbonation
- Ionisation
- Oxidation
- Hydration

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261 PU_2016_379_D

Seasons are caused because of:-

- Moon
- Tilting and rotation of earth

- Gravity
- Sun

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260 PU_2016_379_D

At the equator, the following causes a cyclone:-

- Low pressure and High Temperature
- Low pressure and Low Temperature
- High pressure and Low Temperature
- High pressure and High Temperature

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283 PU_2016_379_D

Name of the hills situated to the Northeast of Indian plateau?

- Vindhyachal
- Aravalli
- Jainti
- Nilgiri

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263 PU_2016_379_D

Ozone layer filter:-

- X ray
- Visible ray
- Infrared ray
- UV ray

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293 PU_2016_379_D

Capacitors store:-

- Voltage
- Static current
- Potential
- Electric charge

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284 PU_2016_379_D

Great canyon of Arizona is formed by:-

- River
- Glacier

- Wind
- Sea

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281 PU_2016_379_D

Which crop is generally sown to restore and maintain soil fertility?

- Jowar
- Barley
- Pulses
- Maize

100 of 100

264 PU_2016_379_D

The maximum temperature in Thar Desert during the month of May is between (in Degree centigrade):-

- 40-43
- 37-39
- 35-37
- 43- 45