

Question Paper Name: 5257Climate Change30th June 2019 Shift 2
Subject Name: Climate Change
Creation Date: 2019-06-30 18:16:55
Duration: 180
Total Marks: 100
Display Marks: Yes

Climate Change

Group Number : 1
Group Id : 489994188
Group Maximum Duration : 0
Group Minimum Duration : 120
Revisit allowed for view? : No
Revisit allowed for edit? : No
Break time: 0
Group Marks: 100

Climate Change

Section Id : 489994244
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 100
Number of Questions to be attempted: 100
Section Marks: 100
Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 489994262
Question Shuffling Allowed : Yes

Question Number : 1 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The long-term prevalent weather conditions of a region is called _____

- A. climate
- B. atmosphere
- C. variability
- D. none of the above

Options :

1. 1

3. 3

4. 4

Question Number : 2 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Climate change happens over what time scales?

- A. Tectonic
- B. Decadal
- C. Millennial
- D. All of the above

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 3 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The unit for measurement of CO₂ concentration in the atmosphere is _____

- A. per mill, $^{\circ}/_{oo}$
- B. parts per million, ppm
- C. $^{\circ}\text{C}$
- D. mm/d

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 4 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Greenhouse gases trap outgoing _____ radiation from the earth's surface.

- A. solar
- B. longwave
- C. ultraviolet
- D. none of the above

Options :

1. 1

2. 2

3. 3

4. 4

Correct Marks : 1 Wrong Marks : 0

Which one of the following is not an external forcing?

- A. Changes in earth's orbit
- B. Changes in plate tectonics
- C. Changes in vegetation
- D. Changes in sun's strength

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 6 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which component of the climate system has the fastest/shortest response time?

- A. Atmosphere
- B. Deep ocean
- C. Ocean surface
- D. Sea ice

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 7 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The major portion of the solar energy that heats up the earth's surface is from the _____ part of the electromagnetic spectrum.

- A. near infrared
- B. ultra violet
- C. x-rays
- D. visible

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 8 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The average solar radiation received per unit area at the top of the earth's atmosphere is

_____ W/m²

- A. 1340
- B. 340
- C. 412
- D. 512

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 9 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The reflectivity of a surface is called its _____

- A. refractivity
- B. albedo
- C. transparency
- D. heat capacity

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 10 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The net energy received at the earth's surface is _____ in low-latitudes and _____ in high latitudes.

- A. deficit, surplus
- B. surplus, deficit
- C. low, high
- D. none

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 11 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following statements is true?

- A. Water holding capacity of air is independent of temperature
- B. Cold air holds more water vapour than hot air
- C. Warm air holds more water vapour than cold air
- D. Both a and b

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 12 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Most day to day changes in weather, as well as important changes in earth's climate occur in the lowermost layer of atmosphere. This layer is called the _____

- A. stratosphere
- B. atmosphere
- C. mesosphere
- D. troposphere

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 13 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following climate archives have annually deposited layers?

- A. Tree rings
- B. Corals
- C. Both a and b
- D. None

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 14 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. Climate proxies
- B. Climate observations
- C. Climate models
- D. All of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 15 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

CO₂ has been an important factor in climate change at _____ time scales.

- A. Decadal
- B. Millennial
- C. Yearly
- D. All of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 16 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The smallest to biggest carbon reservoirs on Earth (starting from smallest to the largest)

- A. Sediments & rocks, soils, vegetation and deep ocean
- B. Vegetation, soils, deep ocean, sediments & rocks
- C. Ocean mixed layer, vegetation, sediments & rocks, deep ocean
- D. None of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 17 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. negative
- B. positive
- C. neutral
- D. none of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 18 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The tectonic motion of lithospheric plates is derived from _____ signatures of rocks

- A. thermal
- B. chemical
- C. physical
- D. magnetic

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 19 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Large volumes of evaporites formed during 200 Myr indicate very _____ condition on Pangaea.

- A. wet
- B. dry
- C. active
- D. humid

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 20 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

One of the following hypotheses predicts that atmospheric CO₂ concentrations and climate are driven by the global mean rate of sea floor spreading.

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- A. Milankovitch
- B. Kepler
- C. BLAG
- D. None

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 21 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What causes seasons on Earth?

- A. Orbit of the earth
- B. Tilt of the axis of rotation
- C. Rotation of earth
- D. All of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 22 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not an orbital parameter?

- A. Obliquity
- B. Precession
- C. Ellipticity
- D. Velocity

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 23 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The distance between sun and the earth is called _____

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- A. Perihelion
- B. Aphelion
- C. Solstice
- D. None

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 24 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Changes in eccentricity causes the changes in _____

- A. tilt
- B. shape of orbit
- C. velocity
- D. rotation

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 25 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The eccentricity of earth's orbit varies at periods of _____ years

- A. 100,000
- B. 413,000
- C. both a and b
- D. neither a nor b

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 26 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

hemispheres in their respective summer and winter seasons.

- A. out-of-phase
- B. neutral
- C. in-phase
- D. slower

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 27 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is the only true statement?

- A. The square root of a planet's orbital period is equal to the cube of its semi-major axis
- B. The square of a Planet's orbital period is equal to the cube of its semi-major axis
- C. A Planet's orbital period is reciprocal of its semi-major axis
- D. None of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 28 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Global scale reconstruction of sea surface temperatures during summer at the last glacial maximum shows _____ compared to the present.

- A. warmer subtropical gyres, cooler north Atlantic
- B. cooler subtropical gyres, warmer Indian ocean
- C. warmer deep tropics, subtropical gyres
- D. warmer Indian and north Atlantic

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 29 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

than they are today.

- A. 5km higher
- B. 500 m higher
- C. 600-1000m lower
- D. the same

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 30 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Deglaciation results in _____ in sea level.

- A. a decrease
- B. no change
- C. an increase
- D. None of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 31 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Stronger summer monsoon simulated 9000 years ago was supported from ocean cores indicating _____ along the coast of east Africa.

- A. strong upwelling in Arabian sea
- B. strong downwelling in Arabian sea
- C. both a and b
- D. neither a nor b

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 32 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. delta change method
B. partial correlation
C. partial regression
D. none

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 33 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Deglaciation after the last glacial maximum was triggered by _____

- A. greenhouse gases
B. ice breaking
C. strong monsoons
D. orbital forcing

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 34 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The time scale of Millennial oscillations is _____ of years.

- A. thousands
B. hundreds
C. tens
D. none

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 35 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. Solar forcing causes millennial oscillations
- B. Solar variability does not explain millennial scale variability
- C. Millennial oscillations is a product of random behaviour in climate system
- D. Both b and c

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 36 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Ocean can take up more atmospheric heat over the regions of _____.

- A. upwelling
- B. downwelling
- C. everywhere
- D. none

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 37 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What climate proxies indicate periods of prolonged drought during the time that Mayan civilization disappeared?

- A. Ice cores
- B. Corals
- C. Tree rings
- D. Lake sediments

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 38 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

longer periods.

- A. troposphere
- B. stratosphere
- C. poles
- D. equator

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 39 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is a warm water current?

- A. Gulfstream
- B. Benguela
- C. South equatorial current
- D. North equatorial current

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 40 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Upwelling regions have low chlorophyll content. True or false?

- A. False
- B. True

Options :

- 1. 1
- 2. 2

Question Number : 41 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The North Atlantic is an important region of _____

- A. ice melting
- B. ocean acidification
- C. deep water formation
- D. global warming

1. 1
2. 2
3. 3
4. 4

Question Number : 42 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The full form of SOI is _____

- A. Solar Oscillation Intensity
- B. Strong Ocean Index
- C. Southern Oscillation Index
- D. None

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 43 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The average PH of the global oceans is around _____

- A. 10.4
- B. 1.5
- C. 6.7
- D. 8.2

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 44 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following is not an internal mode of climate variability?

- A. ENSO
- B. PDO
- C. NAO
- D. None

Options :

1. 1
2. 2
3. 3

Question Number : 45 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

NAO stands for _____

- A. North Atlantic Oscillation
- B. North Arctic Oscillation
- C. North Antarctic Oscillation
- D. North Asian Oscillation

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 46 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The atmospheric CO₂ concentration during the pre-industrial period is around _____ ppm.

- A. 500
- B. 280
- C. 1200
- D. 400

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 47 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ are used in the process of dynamic downscaling to produce high resolution climate information.

- A. Statistical relations
- B. Regional climate models
- C. Global climate models
- D. None of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Correct Marks : 1 Wrong Marks : 0

What happens to the concentration of atmospheric CO₂ during a strong El Niño?

- A. It decreases
- B. It increases
- C. It doesn't change
- D. None of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 49 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following oceanic regions is the strongest sources of CO₂ into atmosphere?

- A. Warm regions
- B. Upwelling
- C. Down welling
- D. Subtropical gyres

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 50 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The ozone concentration in the atmosphere is measured in units of _____

- A. Pascal
- B. W/m²
- C. Kelvin
- D. Dobson

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

When the sunspot number is more, the solar irradiance would be _____ than normal.

- A. greater
- B. lower
- C. equal
- D. none

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 52 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following pollutants causes a negative radiative forcing?

- A. Sulphate
- B. CO₂
- C. Tropospheric ozone
- D. CH₄

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 53 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The rate of change of temperature with height in atmosphere is called the _____

- A. rate of reaction
- B. rate of turbulence
- C. lapse rate
- D. falling velocity

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 54 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. kinetic-radiative
- B. thermal-radiative
- C. thermal-convective
- D. radiative-convective

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 55 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

As global warming increases, the height at which earth emits effective radiation _____

- A. increases
- B. decreases
- C. no change
- D. has no relation

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 56 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The height of the tropopause _____ with global warming.

- A. increases
- B. decreases
- C. no change
- D. none

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 57 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0



Residence time of CH_4 in atmosphere is about _____ years.

- A. 50-200
- B. 12 ± 3
- C. 1000
- D. 1-2

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 58 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following greenhouse gases has the longest residence time in atmosphere?

- A. CO_2
- B. N_2O
- C. CH_4
- D. HFCs

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 59 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following greenhouse gases has highest global warming potential compared to CO_2 ?

- A. CH_4
- B. N_2O
- C. SF_6
- D. HFCs

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 60 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0



A. higher

B. lower

C. equal

D. independent of temperature

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 61 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following models are used by hydrologists to simulate stream flow, soil moisture, and evapotranspiration?

A. Distributed hydrologic models

B. Land surface models

C. Weather models

D. Orbital models

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 62 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The full form of CAPE is _____

A. Condensed and Accumulated Potential Energy

B. Convective Available Potential Energy

C. Computed Accumulated Potential Energy

D. Computed Accumulated Potential Energy

Options :

1. 1

2. 2

3. 3

4. 4

Question Number : 63 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. ENSO
- B. PDO
- C. NAO
- D. PDSI

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 64 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What happens to the ocean acidity when atmospheric CO₂ increases?

- A. It increases
- B. It decreases
- C. It doesn't change
- D. All of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 65 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sea water with "low oxygen" is termed as

- A. Saline
- B. Hypoxia
- C. Anoxia
- D. None of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 66 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. Severity precipitation index
- B. Standardized precipitation index
- C. Standalone Precipitation index
- D. None of the above

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 67 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The change in equilibrium temperature in response to the changes of radiative forcing is known as _____

- A. climate sensitivity
- B. climate equilibrium
- C. climate response
- D. climate feedback

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 68 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The climate sensitivity estimated for a quadrupling of CO₂ is about _____

- A. 10 °C
- B. 20 °C
- C. 7 °C
- D. 5 °C

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 69 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. identification
- B. detection
- A. Representative concentration pathway
- B. Referred concentration programs
- C. Representative common programs
- D. None of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 70 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

RCP stands for _____

- A. Representative concentration pathway
- B. Referred concentration programs
- C. Representative common programs
- D. None of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 71 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following is not a standard future scenario used in fifth assessment report (AR5) of IPCC?

- A. RCP 2.0
- B. RCP 8.5
- C. RCP 9.5
- D. RCP 6.0

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 72 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

- A. Radiative forcing is 4.5 W/m² by the year 2100
- B. Radiative forcing at the start of the climate simulation is 4.5 W/m²
- C. CO₂ concentration is about 45 ppm by the year 2100
- D. CO₂ concentration is about 45 ppm at the start of the climate simulation

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 73 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The projected global mean temperature increase by 2100 relative to the period 1850-1900 under RCP 4.5 scenario is about _____

- A. 1-2 °C
- B. 1.7-3.2 °C
- C. 3.2-5.4 °C
- D. 8-9 °C

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 74 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following is a vulnerable tipping point for global warming of 3-5 °C?

- A. Indian monsoon
- B. Greenland ice sheet
- C. Antarctic ice sheet
- D. None of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 75 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

mainly due to _____

- A. warmer temperatures
- B. increasing snowfall
- C. ocean acidification
- D. ecosystem degradation

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 76 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Global warming induced a _____ shift of diseases.

- A. equatorial
- B. eastward
- C. westward
- D. poleward

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 77 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following sector is the largest contributor to CO₂ emission in India?

- A. Electricity
- B. Residential
- C. Agriculture
- D. None of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 78 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. AMRUT
- B. Green energy Corridor
- C. Clean India
- D. ZED

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 79 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following schemes aims to improve watershed development in India?

- A. Clean Ganga
- B. Clean India
- C. HRIDAY
- D. Neeranchal

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 80 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following statements regarding the recent changes in Indian summer monsoon in a warming climate are true?

- A. The monsoon arrives late and withdraws early
- B. The length of the rainy season has got shorter
- C. Both a and b
- D. Neither a nor b

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 81 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

serious health problems are called _____

- A. dust
- B. soot
- C. particulate matter
- D. water droplets

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 82 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following particulate matter is referred to as fine particles?

- A. $PM_{2.5}$
- B. PM_{10}
- C. PM_{100}
- D. PM_{250}

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 83 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

$PM_{2.5}$ is referred to as particulate matter with diameter _____

- A. 2.5 nanometres or less
- B. 2.5 micrometers or less
- C. 2.5 centimetres or less
- D. All of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 84 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. CO₂
B. O₂
C. CH₄
D. H₂O

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 85 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Excessive Indian summer monsoon rainfall are typically associated with _____

- A. El Niño
B. La Niña
C. polar amplification
D. glacier melt

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 86 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

El Niño is the warm phase of the El Niño Southern Oscillation and is associated with a band of warm ocean water that develops in the _____

- A. Indian ocean
B. central and east-central equatorial Pacific
C. Atlantic ocean
D. Mediterranean sea

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 87 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. All the Indian summer monsoon droughts are associated with El Niño
- B. Indian summer monsoon has an influence of PDO
- C. June-September is considered as Indian summer monsoon season
- D. None

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 88 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following has the highest albedo?

- A. Forest
- B. Water
- C. Fresh snow
- D. Clouds

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 89 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Long-term trend in the observed frequency of cyclonic disturbances forming over Bay of Bengal indicates _____

- A. an increase
- B. a decrease
- C. no trend
- D. none

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 90 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

over Bay of Bengal.

- A. Colder SST
- B. Warmer SST
- C. Strong vertical wind shear
- D. Weak vertical wind shear

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 91 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following Indian coastal stations shows the greatest increase in sea level during past few decades?

- A. Visakhapatnam
- B. Kochi
- C. Diamond Harbour
- D. None

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 92 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

India's first Earth system model is developed by _____

- A. Indian Institute of Tropical Meteorology (IITM), Pune
- B. India Meteorological Department (IMD), Delhi
- C. Indian Institute of Science Education and Research (IISER), Pune
- D. None of the above

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 93 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. Indian Institute of Tropical Meteorology (IITM)
B. India Meteorological Department (IMD)
C. Indian Institute of Science Education and Research (IISER)
D. Central Pollution control board (CPCB)

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 94 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A belt of low pressure which circles the Earth generally near the equator where the trade winds of the Northern and Southern Hemispheres come together is called _____

- A. El Niño southern oscillation
B. Madden-Julian oscillation
C. Inter Tropical Convergence Zone
D. None of the above

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 95 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The ITCZ is also known as the _____

- A. geographical equator
B. meteorological equator
C. thermal equator
D. none

Options :

1. 1
2. 2
3. 3
4. 4

Question Number : 96 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- A. Southwest monsoon
- B. Northeast monsoon
- C. Both
- D. Neither

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 97 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

India experiences Northeast monsoon during the months of -----

- A. March-April
- B. January-March
- C. June-September
- D. October-December

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 98 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The climatological date of the onset of Southwest monsoon over Kerala is around -----

- A. 25 May
- B. 29 May
- C. 1 June
- D. 1 July

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 99 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0



monsoon rainfall over India?

- A. Central Indian ocean
- B. Upper Indian ocean
- C. Western Indian ocean
- D. Eastern Pacific ocean

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

Question Number : 100 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Observational based studies indicate _____ in extreme events over core monsoon zone during past few decades.

- A. a decrease
- B. an increase
- C. no change
- D. none

Options :

- 1. 1
- 2. 2
- 3. 3
- 4. 4

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