

National Testing Agency

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A Guide For Teachers Of All Disciplines

Group Number : 1
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A Guide For Teachers Of All Disciplines

Section Id : 2886078
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 100
Number of Questions to be attempted: 100
Section Marks: 100

Sub-Section Number: 1
Sub-Section Id: 2886078
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 288607701 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The day-to-day meteorological conditions of a region is known as its _____

- A. climate
- B. weather
- C. climatology
- D. none of the above

Options :

2886072801. 1

2886072802. 2

2886072803. 3

2886072804. 4

Question Number : 2 Question Id : 288607702 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Which of the following is a cause of water stress in India?

- A. Low efficiency of water use
- B. Rapid urbanization
- C. Indiscriminate use of ground water
- D. All of the above

Options :

2886072805. 1

2886072806. 2

2886072807. 3

2886072808. 4

Question Number : 3 Question Id : 288607703 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Which one of following is not a greenhouse gas?

- A. CO₂
- B. O₂
- C. CH₄
- D. H₂O

Options :

2886072809. 1

2886072810. 2

2886072811. 3

2886072812. 4

Question Number : 4 Question Id : 288607704 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Greenhouse gases cause _____

- A. no effect
- B. tectonic movement
- C. global cooling
- D. global warming

Options :

2886072813. 1

2886072814. 2

2886072815. 3

2886072816. 4

Question Number : 5 Question Id : 288607705 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Anything that changes the net energy balance of earth is called an _____ forcing.

- A. climate
- B. internal
- C. external
- D. meteorological

Options :

2886072817. 1

2886072818. 2

2886072819. 3

2886072820. 4

Question Number : 6 Question Id : 288607706 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Which one of the following climate system component has longest response time?

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

Options :

2886072821. 1

2886072822. 2

2886072823. 3

2886072824. 4

Question Number : 7 Question Id : 288607707 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Positive feedbacks within the climate system _____ climate changes initially caused
by external factors while the negative feedbacks _____ initial changes.

- A. amplify, suppress
- B. suppress, amplify
- C. amplify, doesn't change
- D. doesn't change, suppress

Options :

2886072825. 1

2886072826. 2

2886072827. 3

2886072828. 4

Question Number : 8 Question Id : 288607708 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The wavelength of energy radiated back from the earth's surface is from the _____ part
of electromagnetic spectrum

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

Options :

2886072829. 1

2886072830. 2

2886072831. 3

2886072832. 4

Question Number : 9 Question Id : 288607709 Question Type : MCQ Option Shuffling : No
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 :

2886072833. 1

2886072834. 2

2886072835. 3

2886072836. 4

Question Number : 10 Question Id : 288607710 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Incoming solar radiation is _____ in tropics than at the poles.

- A. lower
- B. higher
- C. both a and b
- D. none of the above

Options :

2886072837. 1

2886072838. 2

2886072839. 3

2886072840. 4

Question Number : 11 Question Id : 288607711 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The seasonal contrast in radiation received by the Earth's surface is the highest at the

- A. equator
- B. tropics
- C. poles
- D. none

Options :

2886072841. 1

2886072842. 2

2886072843. 3

2886072844. 4

Question Number : 12 Question Id : 288607712 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Coriolis force deflects a moving body to the _____ of the direction of motion in Northern hemisphere.

- A. left
- B. right
- C. downwards
- D. upwards

Options :

2886072845. 1

2886072846. 2

2886072847. 3

2886072848. 4

Question Number : 13 Question Id : 288607713 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following methods is used to generate scaled future climate?

- A. Partial correlation
- B. Regression method
- C. Change factor method
- D. None

Options :

2886072849. 1

2886072850. 2

2886072851. 3

2886072852. 4

Question Number : 14 Question Id : 288607714 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following statement is true?

- A. Temperature increase with height in mesosphere
- B. Temperature decreases with height in stratosphere
- C. Temperature decreases with height in troposphere
- D. Both A. and C.

Options :

2886072853. 1

2886072854. 2

2886072855. 3

2886072856. 4

Question Number : 15 Question Id : 288607715 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Land-sea breezes are produced due to _____

- A. albedo differences over land and ocean
- B. moisture differences over land and ocean
- C. differential heating of land and ocean
- D. all of the above

Options :

2886072857. 1

2886072858. 2

2886072859. 3

2886072860. 4

Question Number : 16 Question Id : 288607716 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

_____ are major climate archives on all time-scales (short and long time-scales).

- A. Ice cores
- B. Tree rings
- C. Layered sediments
- D. None of the above

Options :

2886072861. 1

2886072862. 2

2886072863. 3

2886072864. 4

Question Number : 17 Question Id : 288607717 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

_____ signatures in rocks are used to geolocate the position of continents in the past.

- A. Magnetic
- B. Thermal
- C. Radioactive
- D. All of the above

Options :

2886072865. 1

2886072866. 2

2886072867. 3

2886072868. 4

Question Number : 18 Question Id : 288607718 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

The largest reservoir of carbon on earth is _____

- A. vegetation
- B. deep ocean
- C. atmosphere
- D. sediments and rocks

Options :

2886072869. 1

2886072870. 2

2886072871. 3

2886072872. 4

Question Number : 19 Question Id : 288607719 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

_____ removes atmospheric CO₂ on geological time scales.

- A. Photosynthesis
- B. Snowfall
- C. Dust
- D. Chemical weathering

Options :

2886072873. 1

2886072874. 2

2886072875. 3

2886072876. 4

Question Number : 20 Question Id : 288607720 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Dynamic downscaling method uses _____ to produce high resolution climate information.

- A. statistical relations
- B. regional climate models
- C. global climate models
- D. none

Options :

2886072877. 1

2886072878. 2

2886072879. 3

2886072880. 4

Question Number : 21 Question Id : 288607721 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statements are true regarding the Pangaeian climate simulated by climate models?

- A. Broad areas of tropics and subtropics were dry
- B. There were large seasonal temperature contrast between summer and winter hemispheres
- C. There were super monsoons
- D. All of the above

Options :

2886072881. 1

2886072882. 2

2886072883. 3

2886072884. 4

Question Number : 22 Question Id : 288607722 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Modern sea floor spreading rates are 10 times faster in the ____ than in the ____ ocean.

- A. Pacific, Atlantic
- B. Atlantic, Pacific
- C. Atlantic, Indian
- D. Pacific, Indian

Options :

2886072885. 1

2886072886. 2

2886072887. 3

2886072888. 4

Question Number : 23 Question Id : 288607723 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Spatial variability of extreme rainfall during summer monsoon season over India indicate _____ trend during past few decades.

- A. a decreasing
- B. an increasing
- C. no change
- D. none

Options :

2886072889. 1

2886072890. 2

2886072891. 3

2886072892. 4

Question Number : 24 Question Id : 288607724 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Thermocline refers to a sharp gradient in _____ with depth in the ocean.

- A. pressure
- B. salinity
- C. density
- D. temperature

Options :

2886072893. 1

2886072894. 2

2886072895. 3

2886072896. 4

Question Number : 25 Question Id : 288607725 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

The closing and opening of continental passages have altered earth's climate on _____ time scale.

- A. multi-decadal
- B. multi-century
- C. multi-million year
- D. all of the above

Options :

2886072897. 1

2886072898. 2

2886072899. 3

2886072900. 4

Question Number : 26 Question Id : 288607726 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Earth's orbit around the sun is in the shape of an _____

- A. ellipse
- B. circle
- C. parabola
- D. hyperbola

Options :

2886072901. 1

2886072902. 2

2886072903. 3

2886072904. 4

Question Number : 27 Question Id : 288607727 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

The minimum distance between sun and the earth is called _____

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

Options :

2886072905. 1

2886072906. 2

2886072907. 3

2886072908. 4

Question Number : 28 Question Id : 288607728 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Changes in the tilt of Earth's axis of rotation occurs on approximately _____ year cycles.

- A. 2000
- B. 100000
- C. 11
- D. 41000

Options :

2886072909. 1

2886072910. 2

2886072911. 3

2886072912. 4

Question Number : 29 Question Id : 288607729 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Increase in tilt causes

- A. more solar radiation to poles in summer and less radiation to poles in winter
- B. equal radiation to poles in summer and winter
- C. less solar radiation to poles in both summer and winter
- D. less solar radiation to poles in summer and more radiation in winter

Options :

2886072913. 1

2886072914. 2

2886072915. 3

2886072916. 4

Question Number : 30 Question Id : 288607730 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

The precession of earth varies at periods of _____ years

- A. 26000
- B. 413000
- C. 1000000
- D. 41000

Options :

2886072917. 1

2886072918. 2

2886072919. 3

2886072920. 4

Question Number : 31 Question Id : 288607731 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Precession causes _____ changes for both hemispheres in their respective summer and winter seasons.

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

Options :

2886072921. 1

2886072922. 2

2886072923. 3

2886072924. 4

Question Number : 32 Question Id : 288607732 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is the correct statement of Kepler's first law?

- A. The orbit of each planet is an ellipse with the Sun at one focus
- B. The planets revolve around the sun
- C. Planets revolve around sun in circular orbits
- D. None of the above

Options :

2886072925. 1

2886072926. 2

2886072927. 3

2886072928. 4

Question Number : 33 Question Id : 288607733 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Atmospheric CO₂ concentration during the end of the last ice age is about _____

- A. 600 ppm
- B. 200 ppm
- C. 200 ppb
- D. 400 ppm

Options :

2886072929. 1

2886072930. 2

2886072931. 3

2886072932. 4

Question Number : 34 Question Id : 288607734 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

The word monsoon is derived from the Arabic "mausam", which means _____

- A. season
- B. rainfall
- C. thunder
- D. snowfall

Options :

2886072933. 1

2886072934. 2

2886072935. 3

2886072936. 4

Question Number : 35 Question Id : 288607735 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

_____ brings major portion of annual rainfall to the state of Tamil Nadu.

- A. Southwest monsoon
- B. Northeast monsoon
- C. Both
- D. None

Options :

2886072937. 1

2886072938. 2

2886072939. 3

2886072940. 4

Question Number : 36 Question Id : 288607736 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The major reason for the cooling of glacial tropics is/are _____

- A. tropics are away from the glacial ice sheets
- B. cooler air from poles
- C. lower levels of atmospheric CO₂ and CH₄
- D. all of the above

Options :

2886072941. 1

2886072942. 2

2886072943. 3

2886072944. 4

Question Number : 37 Question Id : 288607737 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Flooding of coastlines was observed during _____ period.

- A. deglaciation
- B. last glacial maxima
- C. little ice age
- D. none

Options :

2886072945. 1

2886072946. 2

2886072947. 3

2886072948. 4

Question Number : 38 Question Id : 288607738 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Vegetation feedback at _____ latitudes has a stronger impact on climate.

- A. low
- B. higher
- C. tropics
- D. none

Options :

2886072949. 1

2886072950. 2

2886072951. 3

2886072952. 4

Question Number : 39 Question Id : 288607739 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

ITCZ is characterized by _____

- A. convective activity
- B. subsidence
- C. high pressure
- D. low rainfall

Options :

2886072953. 1

2886072954. 2

2886072955. 3

2886072956. 4

Question Number : 40 Question Id : 288607740 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

India experiences Southwest monsoon (summer monsoon) during the months of _____

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

Options :

2886072957. 1

2886072958. 2

2886072959. 3

2886072960. 4

Question Number : 41 Question Id : 288607741 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The time scale of the monsoon intraseasonal oscillations is _____

- A. 10-90 days
- B. 20-30 days
- C. 2-5 days
- D. none

Options :

2886072961. 1

2886072962. 2

2886072963. 3

2886072964. 4

Question Number : 42 Question Id : 288607742 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

On average, 90% of heat produced by global warming is absorbed by _____

- A. vegetation
- B. atmosphere
- C. oceans
- D. land

Options :

2886072965. 1

2886072966. 2

2886072967. 3

2886072968. 4

Question Number : 43 Question Id : 288607743 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

What is the cause for the increased amounts of methane observed in ice cores during historical period?

- A. Volcanic eruptions
- B. Warm SST
- C. Stronger winds
- D. Rice cultivation

Options :

2886072969. 1

2886072970. 2

2886072971. 3

2886072972. 4

Question Number : 44 Question Id : 288607744 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

A possible reason for the little ice age is _____

- A. permanent Elnino
- B. permanent Lanina
- C. series of volcanic eruptions
- D. none

Options :

2886072973. 1

2886072974. 2

2886072975. 3

2886072976. 4

Question Number : 45 Question Id : 288607745 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Which of the following is a warm water current?

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

Options :

2886072977. 1

2886072978. 2

2886072979. 3

2886072980. 4

Question Number : 46 Question Id : 288607746 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Which of the following is a western boundary ocean current?

- A. Benguela
- B. South equatorial current
- C. North equatorial current
- D. Gulf stream

Options :

2886072981. 1

2886072982. 2

2886072983. 3

2886072984. 4

Question Number : 47 Question Id : 288607747 Question Type : MCQ Option Shuffling : No
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

Options :

2886072985. 1

2886072986. 2

2886072987. 3

2886072988. 4

Question Number : 48 Question Id : 288607748 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The Oceanic layer where enough sun light is available is called _____ zone.

- A. Abysopelatic
- B. Euphotic
- C. Anoxic
- D. Hypoxic

Options :

2886072989. 1

2886072990. 2

2886072991. 3

2886072992. 4

Question Number : 49 Question Id : 288607749 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

ENSO stands for _____

- A. El Niño Southern Oscillation
- B. ENergy Supply Oscillation
- C. ENhanced Southern Oscillation
- D. None of the above

Options :

2886072993. 1

2886072994. 2

2886072995. 3

2886072996. 4

Question Number : 50 Question Id : 288607750 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The full form of PDO is _____

- A. Perturbed Diurnal Oscillation
- B. Pacific Decadal Oscillation
- C. Projected Diurnal Oscillation
- D. Projected Decadal Oscillation

Options :

2886072997. 1

2886072998. 2

2886072999. 3

2886073000. 4

Question Number : 51 Question Id : 288607751 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

What is the current concentration of atmospheric CO₂ (in ppm)?

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

Options :

2886073001. 1

2886073002. 2

2886073003. 3

2886073004. 4

Question Number : 52 Question Id : 288607752 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Which one of the following greenhouse gases has the highest radiative forcing?

- A. CH₄
- B. Halocarbons
- C. CO₂
- D. All of the above

Options :

2886073005. 1

2886073006. 2

2886073007. 3

2886073008. 4

Question Number : 53 Question Id : 288607753 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The radiative forcing of aerosol direct effect is _____

- A. negative
- B. positive
- C. neutral
- D. none

Options :

2886073009. 1

2886073010. 2

2886073011. 3

2886073012. 4

Question Number : 54 Question Id : 288607754 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

During an El Niño event, the outgasing of CO₂ from the oceans into the atmosphere

A. decreases

B. increases

C. doesn't change

D. none

Options :

2886073013. 1

2886073014. 2

2886073015. 3

2886073016. 4

Question Number : 55 Question Id : 288607755 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

_____ is responsible for ozone depletion in the stratosphere.

A. CO₂

B. CH₄

C. CFC

D. H₂O

Options :

2886073017. 1

2886073018. 2

2886073019. 3

2886073020. 4

Question Number : 56 Question Id : 288607756 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Swamps, cows and rice fields are major sources of _____ emission.

- A. CO₂
- B. SO₂
- C. CH₄
- D. None of the above

Options :

2886073021. 1

2886073022. 2

2886073023. 3

2886073024. 4

Question Number : 57 Question Id : 288607757 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

The periodicity of sunspot cycle is _____.

- A. 100 year
- B. 11 year
- C. 230 year
- D. 116 year

Options :

2886073025. 1

2886073026. 2

2886073027. 3

2886073028. 4

Question Number : 58 Question Id : 288607758 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Net radiative forcing by human activities during 1750-2005 is about _____ W/m².

- A. 8.5
- B. 2.6
- C. 4.5
- D. 1.5

Options :

2886073029. 1

2886073030. 2

2886073031. 3

2886073032. 4

Question Number : 59 Question Id : 288607759 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The radiative forcing of tropospheric and stratospheric ozone are _____ respectively.

- A. positive, negative
- B. negative, positive
- C. positive, neutral
- D. neutral, positive

Options :

2886073033. 1

2886073034. 2

2886073035. 3

2886073036. 4

Question Number : 60 Question Id : 288607760 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The effective emission from earth happens at a height of _____ km.

- A. 10-12
- B. 1-2
- C. 6.5-7
- D. 20-25

Options :

2886073037. 1

2886073038. 2

2886073039. 3

2886073040. 4

Question Number : 61 Question Id : 288607761 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The height of tropopause _____ from equator to poles.

- A. increases
- B. decreases
- C. constant
- D. None

Options :

2886073041. 1

2886073042. 2

2886073043. 3

2886073044. 4

Question Number : 62 Question Id : 288607762 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The residence time of CO₂ in atmosphere is about _____ years.

- A. 10-20
- B. 50-200
- C. 1000
- D. 1-2

Options :

2886073045. 1

2886073046. 2

2886073047. 3

2886073048. 4

Question Number : 63 Question Id : 288607763 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

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

- A. CO₂
- B. N₂O
- C. SF₆
- D. HFCs

Options :

2886073049. 1

2886073050. 2

2886073051. 3

2886073052. 4

Question Number : 64 Question Id : 288607764 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Which of the following sequence is correct when arranged in ascending order of their global warming potential?

- A. HFC, SF₆, CH₄, CO₂
- B. CO₂, CH₄, HFC, SF₆
- C. N₂O, CO₂, SF₆, HFC
- D. N₂O, CH₄, SF₆, HFC

Options :

2886073053. 1

2886073054. 2

2886073055. 3

2886073056. 4

Question Number : 65 Question Id : 288607765 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Observational studies indicate _____ in the daily variance of monsoon rainfall during past few decades.

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

Options :

2886073057. 1

2886073058. 2

2886073059. 3

2886073060. 4

Question Number : 66 Question Id : 288607766 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Polar amplification refers to _____.

- A. high rainfall at poles due to global warming
- B. stronger winds at equator due to global warming
- C. larger warming at high latitudes due to green house warming
- D. all of the above

Options :

2886073061. 1

2886073062. 2

2886073063. 3

2886073064. 4

Question Number : 67 Question Id : 288607767 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Sea level reconstructions suggest that the current sea levels are about _____ than those at last glacial maximum.

- A. 120 m above
- B. 120 m below
- C. 1200 m above
- D. 1200 m below

Options :

2886073065. 1

2886073066. 2

2886073067. 3

2886073068. 4

Question Number : 68 Question Id : 288607768 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Which of the following sequence is true based on the proportion of moisture contribution to Indian summer monsoon rainfall?

- A. Western Indian Ocean > Central Indian Ocean > Upper Indian Ocean
- B. Central Indian Ocean > Western Indian Ocean > Upper Indian Ocean
- C. Upper Indian Ocean > Western Indian Ocean > Central Indian Ocean
- D. Upper Indian Ocean > Central Indian Ocean > Western Indian Ocean

Options :

2886073069. 1

2886073070. 2

2886073071. 3

2886073072. 4

Question Number : 69 Question Id : 288607769 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Sea level changes are measured using _____

- A. thermometer
- B. barometer
- C. anemometer
- D. tide gauge

Options :

2886073073. 1

2886073074. 2

2886073075. 3

2886073076. 4

Question Number : 70 Question Id : 288607770 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

The observed global mean sea level rise during the last few decades is about _____

- A. 2-3 mm/year
- B. 2-3 m/year
- C. 2-3 cm/year
- D. 2-3 km/year

Options :

2886073077. 1

2886073078. 2

2886073079. 3

2886073080. 4

Question Number : 71 Question Id : 288607771 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Which of the following Indian coastal stations measures an increase in sea level rise during past few decades?

- A. Visakhapatnam
- B. Kochi
- C. Diamond Harbour
- D. All of the above

Options :

2886073081. 1

2886073082. 2

2886073083. 3

2886073084. 4

Question Number : 72 Question Id : 288607772 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

The process of generating high resolution regional climate simulations using a regional climate model by using boundary conditions from a coarser global climate simulation is known as _____

- A. downscaling
- B. upscaling
- C. forecast
- D. hindcast

Options :

2886073085. 1

2886073086. 2

2886073087. 3

2886073088. 4

Question Number : 73 Question Id : 288607773 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

NPP stands for _____

- A. Net Partial Pressure
- B. Net Primary Productivity
- C. Net Partial Productivity
- D. None of the above

Options :

2886073089. 1

2886073090. 2

2886073091. 3

2886073092. 4

Question Number : 74 Question Id : 288607774 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

What happens to the pH of the ocean when atmospheric CO₂ increases?

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

Options :

2886073093. 1

2886073094. 2

2886073095. 3

2886073096. 4

Question Number : 75 Question Id : 288607775 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The process of eutrophication is related to _____

- A. warmer temperatures
- B. excess nutrients
- C. strong winds
- D. high oxygen levels

Options :

2886073097. 1

2886073098. 2

2886073099. 3

2886073100. 4

Question Number : 76 Question Id : 288607776 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The condition of sea waters with "total depletion of oxygen" is termed as _____

- A. saline
- B. hypoxia
- C. Anoxia
- D. none

Options :

2886073101. 1

2886073102. 2

2886073103. 3

2886073104. 4

Question Number : 77 Question Id : 288607777 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following statements is true?

- A. Radiative forcing due to anthropogenic greenhouse gases are now within the natural ranges
- B. Radiative forcing due to anthropogenic emission of greenhouse gases are now beyond the natural ranges
- C. Radiative forcing due to anthropogenic greenhouse gases are decreasing since industrial revolution
- D. None of the above are true

Options :

2886073105. 1

2886073106. 2

2886073107. 3

2886073108. 4

Question Number : 78 Question Id : 288607778 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

The full form of the drought index PDSI is _____

- A. Potential Drought Severity Index
- B. Palmer Drought Severity Index
- C. Precipitation Drought Sensing Index
- D. None of the above

Options :

2886073109. 1

2886073110. 2

2886073111. 3

2886073112. 4

Question Number : 79 Question Id : 288607779 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

The global rate of emission of CO₂ is _____ since the industrial revolution.

- A. constant
- B. decreasing
- C. increasing
- D. zero

Options :

2886073113. 1

2886073114. 2

2886073115. 3

2886073116. 4

Question Number : 80 Question Id : 288607780 Question Type : MCQ Option Shuffling : No

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 :

2886073117. 1

2886073118. 2

2886073119. 3

2886073120. 4

Question Number : 81 Question Id : 288607781 Question Type : MCQ Option Shuffling : No

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 :

2886073121. 1

2886073122. 2

2886073123. 3

2886073124. 4

Question Number : 82 Question Id : 288607782 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

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

- A. per mill, ‰
- B. parts per million, ppm
- C. °C
- D. mm/d

Options :

2886073125. 1

2886073126. 2

2886073127. 3

2886073128. 4

Question Number : 83 Question Id : 288607783 Question Type : MCQ Option Shuffling : No
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 :

2886073129. 1

2886073130. 2

2886073131. 3

2886073132. 4

Question Number : 84 Question Id : 288607784 Question Type : MCQ Option Shuffling : No
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 :

2886073133. 1

2886073134. 2

2886073135. 3

2886073136. 4

Question Number : 85 Question Id : 288607785 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The reflectivity of a surface is called its _____

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

Options :

2886073137. 1

2886073138. 2

2886073139. 3

2886073140. 4

Question Number : 86 Question Id : 288607786 Question Type : MCQ Option Shuffling : No
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 :

2886073141. 1

2886073142. 2

2886073143. 3

2886073144. 4

Question Number : 87 Question Id : 288607787 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Which one 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 :

2886073145. 1

2886073146. 2

2886073147. 3

2886073148. 4

Question Number : 88 Question Id : 288607788 Question Type : MCQ Option Shuffling : No

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 :

2886073149. 1

2886073150. 2

2886073151. 3

2886073152. 4

Question Number : 89 Question Id : 288607789 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

The ocean's solubility of gases like oxygen _____ with warming?

- A. decreases
- B. increases
- C. doesn't change
- D. none

Options :

2886073153. 1

2886073154. 2

2886073155. 3

2886073156. 4

Question Number : 90 Question Id : 288607790 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Chemical weathering acts as a _____ climate feedback.

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

Options :

2886073157. 1

2886073158. 2

2886073159. 3

2886073160. 4

Question Number : 91 Question Id : 288607791 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

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

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

Options :

2886073161. 1

2886073162. 2

2886073163. 3

2886073164. 4

Question Number : 92 Question Id : 288607792 Question Type : MCQ Option Shuffling : No

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 :

2886073165. 1

2886073166. 2

2886073167. 3

2886073168. 4

Question Number : 93 Question Id : 288607793 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

ITCZ stands for _____

- A. Intensified tropical circulation zone
- B. Inter tropical convergence zone
- C. Inner thermal core zone
- D. None of the above

Options :

2886073169. 1

2886073170. 2

2886073171. 3

2886073172. 4

Question Number : 94 Question Id : 288607794 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Which of the following is not an orbital parameter?

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

Options :

2886073173. 1

2886073174. 2

2886073175. 3

2886073176. 4

Question Number : 95 Question Id : 288607795 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

Changes in eccentricity causes the changes in _____

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

Options :

2886073177. 1

2886073178. 2

2886073179. 3

2886073180. 4

Question Number : 96 Question Id : 288607796 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

During the last glaciation, the limits of mountain glaciers in the Andes were _____ than they are today.

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

Options :

2886073181. 1

2886073182. 2

2886073183. 3

2886073184. 4

Question Number : 97 Question Id : 288607797 Question Type : MCQ Option Shuffling : No
Correct Marks : 1 Wrong Marks : 0

The principal government agency to take meteorological observations and issue weather forecasts and warnings in India is _____

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

Options :

2886073185. 1

2886073186. 2

2886073187. 3

2886073188. 4

Question Number : 98 Question Id : 288607798 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statement is true?

- A. The changes in surface air temperature over India shows a reduction during past 100 years
- B. All India averaged surface air temperature shows accelerated warming during recent years
- C. All India averaged surface air temperature doesn't show any trend during recent years
- D. All of the above

Options :

2886073189. 1

2886073190. 2

2886073191. 3

2886073192. 4

Question Number : 99 Question Id : 288607799 Question Type : MCQ Option Shuffling : No

Correct Marks : 1 Wrong Marks : 0

The time scale of Millennial oscillations is _____ of years.

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

Options :

2886073193. 1

2886073194. 2

2886073195. 3

2886073196. 4

Question Number : 100 Question Id : 288607800 Question Type : MCQ Option Shuffling : No

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 :

2886073197. 1

2886073198. 2

2886073199. 3

2886073200. 4