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National Testing Agency

Question Paper Name :	A Guide For Teachers Of All Dis
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A Guide For Teachers Of All Disciplines

Group Number :	1
Group Id :	89951423
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	100
Is this Group for Examiner? :	No

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Section Id :	89951423
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	100

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Number of Questions to be attempted : 100
Section Marks : 100
Display Number Panel : Yes
Group All Questions : Yes
Mark As Answered Required? : Yes
Sub-Section Number : 1
Sub-Section Id : 89951436
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 8995141850 Question Type : MCQ Option Shuffling : No Display Question : Mandatory : No 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 :

- 8995147360. 1
- 8995147361. 2
- 8995147362. 3
- 8995147363. 4

Question Number : 2 Question Id : 8995141851 Question Type : MCQ Option Shuffling : No Display Question : Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

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Climate change happens over what time scales?

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

Options :

- 8995147364. 1
- 8995147365. 2
- 8995147366. 3
- 8995147367. 4

Question Number : 3 Question Id : 8995141852 Question Type : MCQ Option Shuffling : No Display Question : Mandatory : No 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, ‰
- B. parts per million, ppm
- C. °C
- D. mm/d

Options :

- 8995147368. 1
- 8995147369. 2
- 8995147370. 3
- 8995147371. 4

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Question Number : 4 Question Id : 8995141853 Question Type : MCQ Option Shuffling : No Display Question**Mandatory : No 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 :

8995147372. 1

8995147373. 2

8995147374. 3

8995147375. 4

Question Number : 5 Question Id : 8995141854 Question Type : MCQ Option Shuffling : No Display Question**Mandatory : No Single Line Question Option : No Option Orientation : Vertical****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 :

8995147376. 1

8995147377. 2

8995147378. 3

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8995147379. 4

Question Number : 6 Question Id : 8995141855 Question Type : MCQ Option Shuffling : No Display Question Mandatory : No 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 :

8995147380. 1

8995147381. 2

8995147382. 3

8995147383. 4

Question Number : 7 Question Id : 8995141856 Question Type : MCQ Option Shuffling : No Display Question Mandatory : No 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 _____ part of the electromagnetic spectrum.

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

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Options :

- 8995147384. 1
- 8995147385. 2
- 8995147386. 3
- 8995147387. 4

Question Number : 8 Question Id : 8995141857 Question Type : MCQ Option Shuffling : No Display Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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 :

- 8995147388. 1
- 8995147389. 2
- 8995147390. 3
- 8995147391. 4

Question Number : 9 Question Id : 8995141858 Question Type : MCQ Option Shuffling : No Display Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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The reflectivity of a surface is called its _____

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

Options :

- 8995147392. 1
- 8995147393. 2
- 8995147394. 3
- 8995147395. 4

Question Number : 10 Question Id : 8995141859 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No 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 _____
high latitudes.

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

Options :

- 8995147396. 1
- 8995147397. 2
- 8995147398. 3
- 8995147399. 4

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**Question Number : 11 Question Id : 8995141860 Question Type : MCQ Option Shuffling : No Display Question :
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
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 :

- 8995147400. 1
- 8995147401. 2
- 8995147402. 3
- 8995147403. 4

**Question Number : 12 Question Id : 8995141861 Question Type : MCQ Option Shuffling : No Display Question :
Question Mandatory : No 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 :

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8995147404. 1

8995147405. 2

8995147406. 3

8995147407. 4

Question Number : 13 Question Id : 8995141862 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No 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 :

8995147408. 1

8995147409. 2

8995147410. 3

8995147411. 4

Question Number : 14 Question Id : 8995141863 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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Which of the following tools are used to project climate into future?

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

Options :

- 8995147412. 1
- 8995147413. 2
- 8995147414. 3
- 8995147415. 4

Question Number : 15 Question Id : 8995141864 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No 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 :

- 8995147416. 1
- 8995147417. 2
- 8995147418. 3
- 8995147419. 4

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Question Number : 16 Question Id : 8995141865 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No 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 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 :

8995147420. 1

8995147421. 2

8995147422. 3

8995147423. 4

Question Number : 17 Question Id : 8995141866 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
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 :

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8995147424. 1

8995147425. 2

8995147426. 3

8995147427. 4

Question Number : 18 Question Id : 8995141867 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

A. thermal

B. chemical

C. physical

D. magnetic

Options :

8995147428. 1

8995147429. 2

8995147430. 3

8995147431. 4

Question Number : 19 Question Id : 8995141868 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

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

Options :

- 8995147432. 1
- 8995147433. 2
- 8995147434. 3
- 8995147435. 4

Question Number : 20 Question Id : 8995141869 Question Type : MCQ Option Shuffling : No Display Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

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

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

Options :

- 8995147436. 1
- 8995147437. 2

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8995147438. 3

8995147439. 4

Question Number : 21 Question Id : 8995141870 Question Type : MCQ Option Shuffling : No Display Que**Question Mandatory : No 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 :

8995147440. 1

8995147441. 2

8995147442. 3

8995147443. 4

Question Number : 22 Question Id : 8995141871 Question Type : MCQ Option Shuffling : No Display Que**Question Mandatory : No 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

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Options :

8995147444. 1

8995147445. 2

8995147446. 3

8995147447. 4

Question Number : 23 Question Id : 8995141872 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The largest distance between sun and the earth is called _____

A. Perihelion

B. Aphelion

C. Solstice

D. None

Options :

8995147448. 1

8995147449. 2

8995147450. 3

8995147451. 4

Question Number : 24 Question Id : 8995141873 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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Changes in eccentricity causes the changes in _____

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

Options :

- 8995147452. 1
- 8995147453. 2
- 8995147454. 3
- 8995147455. 4

Question Number : 25 Question Id : 8995141874 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No 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 :

- 8995147456. 1
- 8995147457. 2
- 8995147458. 3
- 8995147459. 4

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Question Number : 26 Question Id : 8995141875 Question Type : MCQ Option Shuffling : No Display Que**Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical****Correct Marks : 1 Wrong Marks : 0**

The tilt of the axis of rotation causes _____ changes in the polar regions of hemispheres in their respective summer and winter seasons.

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

Options :

- 8995147460. 1
- 8995147461. 2
- 8995147462. 3
- 8995147463. 4

Question Number : 27 Question Id : 8995141876 Question Type : MCQ Option Shuffling : No Display Que**Question Mandatory : No 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 :

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8995147464. 1

8995147465. 2

8995147466. 3

8995147467. 4

Question Number : 28 Question Id : 8995141877 Question Type : MCQ Option Shuffling : No Display Question Mandatory : No 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 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 :

8995147468. 1

8995147469. 2

8995147470. 3

8995147471. 4

Question Number : 29 Question Id : 8995141878 Question Type : MCQ Option Shuffling : No Display Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

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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 :

8995147472. 1

8995147473. 2

8995147474. 3

8995147475. 4

Question Number : 30 Question Id : 8995141879 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No 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 :

8995147476. 1

8995147477. 2

8995147478. 3

8995147479. 4

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Question Number : 31 Question Id : 8995141880 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No 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 c
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 :

- 8995147480. 1
- 8995147481. 2
- 8995147482. 3
- 8995147483. 4

Question Number : 32 Question Id : 8995141881 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Radioactive decay of which isotope is useful for dating corals?

- A. Uranium-235
- B. Potassium-40
- C. Thorium-230
- D. Rubidium-87

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Options :

- 8995147484. 1
- 8995147485. 2
- 8995147486. 3
- 8995147487. 4

Question Number : 33 Question Id : 8995141882 Question Type : MCQ Option Shuffling : No Display Que**Question Mandatory : No 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 :

- 8995147488. 1
- 8995147489. 2
- 8995147490. 3
- 8995147491. 4

Question Number : 34 Question Id : 8995141883 Question Type : MCQ Option Shuffling : No Display Que**Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical****Correct Marks : 1 Wrong Marks : 0**

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The time scale of Millennial oscillations is _____ of years.

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

Options :

- 8995147492. 1
- 8995147493. 2
- 8995147494. 3
- 8995147495. 4

Question Number : 35 Question Id : 8995141884 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Which of the following statements is true?

- 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 :

- 8995147496. 1
- 8995147497. 2
- 8995147498. 3
- 8995147499. 4

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Question Number : 36 Question Id : 8995141885 Question Type : MCQ Option Shuffling : No Display Que**Question Mandatory : No 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 :

8995147500. 1

8995147501. 2

8995147502. 3

8995147503. 4

Question Number : 37 Question Id : 8995141886 Question Type : MCQ Option Shuffling : No Display Que**Question Mandatory : No 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 Mayan civilization disappeared?

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

Options :

8995147504. 1

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8995147505. 2

8995147506. 3

8995147507. 4

Question Number : 38 Question Id : 8995141887 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Volcanic dust reaching the _____ can stay for longer time and can impact climate
longer periods.

A. troposphere

B. stratosphere

C. poles

D. equator

Options :

8995147508. 1

8995147509. 2

8995147510. 3

8995147511. 4

Question Number : 39 Question Id : 8995141888 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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_____ are major climate archives on all time scales

- A. ice cores
- B. tree rings
- C. layered sediments
- D. none of the above

Options :

- 8995147512. 1
- 8995147513. 2
- 8995147514. 3
- 8995147515. 4

Question Number : 40 Question Id : 8995141889 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following regions have high chlorophyll content?

- A. Upwelling regions
- B. Downwelling regions
- C. Subtropical gyres
- D. land locked seas

Options :

- 8995147516. 1
- 8995147517. 2
- 8995147518. 3
- 8995147519. 4

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Question Number : 41 Question Id : 8995141890 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No 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

Options :

- 8995147520. 1
- 8995147521. 2
- 8995147522. 3
- 8995147523. 4

Question Number : 42 Question Id : 8995141891 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No 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 :

- 8995147524. 1
- 8995147525. 2

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8995147526. 3

8995147527. 4

Question Number : 43 Question Id : 8995141892 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No 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 :

8995147528. 1

8995147529. 2

8995147530. 3

8995147531. 4

Question Number : 44 Question Id : 8995141893 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No 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 of the above~~

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Options :

- 8995147532. 1
- 8995147533. 2
- 8995147534. 3
- 8995147535. 4

Question Number : 45 Question Id : 8995141894 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No 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 :

- 8995147536. 1
- 8995147537. 2
- 8995147538. 3
- 8995147539. 4

Question Number : 46 Question Id : 8995141895 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

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

Options :

- 8995147540. 1
- 8995147541. 2
- 8995147542. 3
- 8995147543. 4

Question Number : 47 Question Id : 8995141896 Question Type : MCQ Option Shuffling : No Display Question : Question Mandatory : No 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 :

- 8995147544. 1
- 8995147545. 2
- 8995147546. 3

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8995147547. 4

Question Number : 48 Question Id : 8995141897 Question Type : MCQ Option Shuffling : No Display Que**Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical****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 :

8995147548. 1

8995147549. 2

8995147550. 3

8995147551. 4

Question Number : 49 Question Id : 8995141898 Question Type : MCQ Option Shuffling : No Display Que**Question Mandatory : No 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 atmosphere?

- A. Warm regions
- B. Upwelling
- C. Downwelling
- D. Subtropical gyres

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Options :

- 8995147552. 1
- 8995147553. 2
- 8995147554. 3
- 8995147555. 4

Question Number : 50 Question Id : 8995141899 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No 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/m^2
- C. Kelvin
- D. Dobson

Options :

- 8995147556. 1
- 8995147557. 2
- 8995147558. 3
- 8995147559. 4

Question Number : 51 Question Id : 8995141900 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

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

Options :

- 8995147560. 1
- 8995147561. 2
- 8995147562. 3
- 8995147563. 4

Question Number : 52 Question Id : 8995141901 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following pollutants causes a negative radiative forcing at the surface

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

Options :

- 8995147564. 1
- 8995147565. 2
- 8995147566. 3
- 8995147567. 4

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Question Number : 53 Question Id : 8995141902 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No 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 :

- 8995147568. 1
- 8995147569. 2
- 8995147570. 3
- 8995147571. 4

Question Number : 54 Question Id : 8995141903 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The atmosphere is in _____ equilibrium.

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

Options :

- 8995147572. 1

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8995147573. 2

8995147574. 3

8995147575. 4

Question Number : 55 Question Id : 8995141904 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No 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 radiat

A. increases

B. decreases

C. no change

D. has no relation

Options :

8995147576. 1

8995147577. 2

8995147578. 3

8995147579. 4

Question Number : 56 Question Id : 8995141905 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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The height of the tropopause _____ with global warming.

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

Options :

- 8995147580. 1
- 8995147581. 2
- 8995147582. 3
- 8995147583. 4

Question Number : 57 Question Id : 8995141906 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The residence time of CH₄ in atmosphere is about _____ years.

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

Options :

- 8995147584. 1
- 8995147585. 2
- 8995147586. 3
- 8995147587. 4

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Question Number : 58 Question Id : 8995141907 Question Type : MCQ Option Shuffling : No Display Que**Question Mandatory : No 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 the atmosphere?

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

Options :

8995147588. 1

8995147589. 2

8995147590. 3

8995147591. 4

Question Number : 59 Question Id : 8995141908 Question Type : MCQ Option Shuffling : No Display Que**Question Mandatory : No 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

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Options :

- 8995147592. 1
- 8995147593. 2
- 8995147594. 3
- 8995147595. 4

Question Number : 60 Question Id : 8995141909 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sea level over colder waters is _____ compared to that over warmer waters.

- A. higher
- B. lower
- C. equal
- D. independent of temperature

Options :

- 8995147596. 1
- 8995147597. 2
- 8995147598. 3
- 8995147599. 4

Question Number : 61 Question Id : 8995141910 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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_____ removes atmospheric CO₂ on geological time scales

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

Options :

- 8995147600. 1
- 8995147601. 2
- 8995147602. 3
- 8995147603. 4

Question Number : 62 Question Id : 8995141911 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

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

Options :

- 8995147604. 1
- 8995147605. 2

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8995147606. 3

8995147607. 4

Question Number : 63 Question Id : 8995141912 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

During the Crataceaeous (100Myr), temperatures were found to be _____
they are today at all latitudes, especially in poles.

- A. cooler
- B. the same
- C. warmer
- D. none of the above

Options :

8995147608. 1

8995147609. 2

8995147610. 3

8995147611. 4

Question Number : 64 Question Id : 8995141913 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

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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 :

8995147612. 1

8995147613. 2

8995147614. 3

8995147615. 4

Question Number : 65 Question Id : 8995141914 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No 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 :

8995147616. 1

8995147617. 2

8995147618. 3

8995147619. 4

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Question Number : 66 Question Id : 8995141915 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The closing and opening of tectonic passages have altered earth's climate
_____ time scales.

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

Options :

- 8995147620. 1
- 8995147621. 2
- 8995147622. 3
- 8995147623. 4

Question Number : 67 Question Id : 8995141916 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

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The current shape of the earth's rotation around sun is an

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

Options :

- 8995147624. 1
- 8995147625. 2
- 8995147626. 3
- 8995147627. 4

Question Number : 68 Question Id : 8995141917 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

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 :

- 8995147628. 1
- 8995147629. 2
- 8995147630. 3

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8995147631. 4

Question Number : 69 Question Id : 8995141918 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The precession of earth varies at periods of _____ years

A. 26000

B. 413000

C. 1000000

D. 41000

Options :

8995147632. 1

8995147633. 2

8995147634. 3

8995147635. 4

Question Number : 70 Question Id : 8995141919 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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The atmospheric CO₂ concentration during the end of the last ice age approximately_____

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

Options :

8995147636. 1

8995147637. 2

8995147638. 3

8995147639. 4

Question Number : 71 Question Id : 8995141920 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The major reason for the cooling of glacial tropics

- 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 :

8995147640. 1

8995147641. 2

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8995147642. 3

8995147643. 4

Question Number : 72 Question Id : 8995141921 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

During the deglacial interval, changes to the climate were driven by _____

- A. rising summer insolation
- B. increased atmospheric CO₂ concentration
- C. both a and b
- D. neither a nor b

Options :

8995147644. 1

8995147645. 2

8995147646. 3

8995147647. 4

Question Number : 73 Question Id : 8995141922 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

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

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

Options :

- 8995147648. 1
- 8995147649. 2
- 8995147650. 3
- 8995147651. 4

Question Number : 74 Question Id : 8995141923 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The most likely cause for increased amounts of methane observed in ice cores during the
historical period is _____

- A. volcanic eruptions
- B. warm SST
- C. stronger winds
- D. rice cultivation

Options :

- 8995147652. 1
- 8995147653. 2
- 8995147654. 3

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8995147655. 4

Question Number : 75 Question Id : 8995141924 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The most likely cause for the little ice age is a _____

- A. permanent El Nino
- B. permanent La Nina
- C. series of volcanic eruptions
- D. none

Options :

8995147656. 1

8995147657. 2

8995147658. 3

8995147659. 4

Question Number : 76 Question Id : 8995141925 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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ENSO stands for _____

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

Options :

8995147660. 1

8995147661. 2

8995147662. 3

8995147663. 4

Question Number : 77 Question Id : 8995141926 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The 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 :

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8995147664. 1

8995147665. 2

8995147666. 3

8995147667. 4

Question Number : 78 Question Id : 8995141927 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

A. HFC, SF₆, CH₄, CO₂

B. CO₂, CH₄, HFC, SF₆

C. N₂O, CO₂, SF₆, HFC

D. N₂O, CH₄, SF₆, HFC

Options :

8995147668. 1

8995147669. 2

8995147670. 3

8995147671. 4

Question Number : 79 Question Id : 8995141928 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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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 :

- 8995147672. 1
- 8995147673. 2
- 8995147674. 3
- 8995147675. 4

Question Number : 80 Question Id : 8995141929 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

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 :

- 8995147676. 1
- 8995147677. 2
- 8995147678. 3
- 8995147679. 4

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Question Number : 81 Question Id : 8995141930 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
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 :

- 8995147680. 1
- 8995147681. 2
- 8995147682. 3
- 8995147683. 4

Question Number : 82 Question Id : 8995141931 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Positive feedbacks within the climate system _____ climate changes initiated
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 :

- 8995147684. 1

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8995147685. 2

8995147686. 3

8995147687. 4

Question Number : 83 Question Id : 8995141932 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No 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 :

8995147688. 1

8995147689. 2

8995147690. 3

8995147691. 4

Question Number : 84 Question Id : 8995141933 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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Which one of following is not a green house gas?

- A. CO₂
- B. O₂
- C. CH₄
- D. H₂O

Options :

- 8995147692. 1
- 8995147693. 2
- 8995147694. 3
- 8995147695. 4

Question Number : 85 Question Id : 8995141934 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

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

Options :

- 8995147696. 1
- 8995147697. 2
- 8995147698. 3
- 8995147699. 4

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Question Number : 86 Question Id : 8995141935 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

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

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

Options :

- 8995147700. 1
- 8995147701. 2
- 8995147702. 3
- 8995147703. 4

Question Number : 87 Question Id : 8995141936 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
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 :

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8995147704. 1

8995147705. 2

8995147706. 3

8995147707. 4

Question Number : 88 Question Id : 8995141937 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

A. a decreasing

B. an increasing

C. no change

D. none

Options :

8995147708. 1

8995147709. 2

8995147710. 3

8995147711. 4

Question Number : 89 Question Id : 8995141938 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

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

Options :

- 8995147712. 1
- 8995147713. 2
- 8995147714. 3
- 8995147715. 4

Question Number : 90 Question Id : 8995141939 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

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 :

- 8995147716. 1
- 8995147717. 2
- 8995147718. 3
- 8995147719. 4

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Question Number : 91 Question Id : 8995141940 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
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 :

8995147720. 1
8995147721. 2
8995147722. 3
8995147723. 4

Question Number : 92 Question Id : 8995141941 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
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 :

8995147724. 1
8995147725. 2
8995147726. 3

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8995147727. 4

Question Number : 93 Question Id : 8995141942 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

ITCZ is characterized by _____

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

Options :

8995147728. 1

8995147729. 2

8995147730. 3

8995147731. 4

Question Number : 94 Question Id : 8995141943 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

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 :

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8995147732. 1

8995147733. 2

8995147734. 3

8995147735. 4

Question Number : 95 Question Id : 8995141944 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The radiative forcing of aerosol direct effect is _____

A. negative

B. positive

C. neutral

D. none

Options :

8995147736. 1

8995147737. 2

8995147738. 3

8995147739. 4

Question Number : 96 Question Id : 8995141945 Question Type : MCQ Option Shuffling : No Display Que

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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Which monsoon brings about 70-80% of annual rainfall over India?

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

Options :

- 8995147740. 1
- 8995147741. 2
- 8995147742. 3
- 8995147743. 4

Question Number : 97 Question Id : 8995141946 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No 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 :

- 8995147744. 1
- 8995147745. 2
- 8995147746. 3
- 8995147747. 4

Question Number : 98 Question Id : 8995141947 Question Type : MCQ Option Shuffling : No Display Que

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Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

_____ is responsible for ozone depletion in the stratosphere.

- A. CO₂
- B. CH₄
- C. CFC
- D. H₂O

Options :

- 8995147748. 1
- 8995147749. 2
- 8995147750. 3
- 8995147751. 4

Question Number : 99 Question Id : 8995141948 Question Type : MCQ Option Shuffling : No Display Que
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The principal government agency to take meteorological observations and i
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 :

- 8995147752. 1

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8995147753. 2

8995147754. 3

8995147755. 4

Question Number : 100 Question Id : 8995141949 Question Type : MCQ Option Shuffling : No Display Qu

Question Mandatory : No 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

Options :

8995147756. 1

8995147757. 2

8995147758. 3

8995147759. 4