

National Testing Agency

Question Paper Name :	Climate Change A Guide For Teachers Of All Disciplines 21st AUGUST 2021 Shift 2
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Climate Change A Guide For Teachers Of All Disciplines

Group Number :	1
Group Id :	603489122
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Group Marks :	100
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Climate Change A Guide For Teachers Of All Disciplines-1

Section Id :	603489180
Section Number :	1
Section type :	Online

Mandatory or Optional :	Mandatory
Number of Questions :	100
Number of Questions to be attempted :	100
Section Marks :	100
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Sub-Section Number :	1
Sub-Section Id :	603489337
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 6034899069 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

- 1. Climate
- 2. Weather
- 3. Climatology
- 4. None of the above

Options :

- 60348934215. 1
- 60348934216. 2
- 60348934217. 3
- 60348934218. 4

Question Number : 2 Question Id : 6034899070 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Low efficiency of water use
2. Rapid urbanization
3. Indiscriminate use of ground water
4. All of the above

Options :

60348934219. 1

60348934220. 2

60348934221. 3

60348934222. 4

Question Number : 3 Question Id : 6034899071 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of following is not a greenhouse gas?

1. CO₂
2. O₂
3. CH₄
4. H₂O

Options :

60348934223. 1

60348934224. 2

60348934225. 3

60348934226. 4

Question Number : 4 Question Id : 6034899072 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Greenhouse gases cause _____

1. No effect
2. Tectonic movement
3. Global cooling
4. Global warming

Options :

60348934227. 1

60348934228. 2

60348934229. 3

60348934230. 4

Question Number : 5 Question Id : 6034899073 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Climate
2. Internal
3. External
4. Meteorological

Options :

60348934231. 1

60348934232. 2

60348934233. 3

60348934234. 4

Question Number : 6 Question Id : 6034899074 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Atmosphere
2. Deep ocean
3. Land surface
4. Sea ice

Options :

60348934235. 1

60348934236. 2

60348934237. 3

60348934238. 4

Question Number : 7 Question Id : 6034899075 Question Type : MCQ Option Shuffling : No Is Question Mandatory : 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.

1. Amplify, suppress
2. Suppress, amplify
3. Amplify, doesn't change
4. Doesn't change, suppress

Options :

60348934239. 1

60348934240. 2

60348934241. 3

60348934242. 4

Question Number : 8 Question Id : 6034899076 Question Type : MCQ Option Shuffling : No Is Question Mandatory : 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

1. Infrared
2. Ultra violet
3. X-rays
4. Visible

Options :

60348934243. 1

60348934244. 2

60348934245. 3

60348934246. 4

Question Number : 9 Question Id : 6034899077 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following has the highest albedo?

1. Forest
2. Water
3. Fresh snow
4. Clouds

Options :

60348934247. 1

60348934248. 2

60348934249. 3

60348934250. 4

Question Number : 10 Question Id : 6034899078 Question Type : MCQ Option Shuffling : No Is

Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Lower
2. Higher
3. Both 1 and 2
4. None of the above

Options :

60348934251. 1

60348934252. 2

60348934253. 3

60348934254. 4

Question Number : 11 Question Id : 6034899079 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Equator
2. Tropics
3. Poles
4. None of the above

Options :

60348934255. 1

60348934256. 2

60348934257. 3

60348934258. 4

Question Number : 12 Question Id : 6034899080 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Left
2. Right
3. Downwards
4. Upwards

Options :

60348934259. 1

60348934260. 2

60348934261. 3

60348934262. 4

Question Number : 13 Question Id : 6034899081 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Partial correlation
2. Regression method
3. Change factor method
4. None of the above

Options :

60348934263. 1

60348934264. 2

60348934265. 3

60348934266. 4

Question Number : 14 Question Id : 6034899082 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following statement is true?

1. Temperature increase with height in mesosphere
2. Temperature decreases with height in stratosphere
3. Temperature decreases with height in troposphere
4. Both 1 and 3

Options :

60348934267. 1

60348934268. 2

60348934269. 3

60348934270. 4

Question Number : 15 Question Id : 6034899083 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Land-sea breezes are produced due to _____

1. Albedo differences over land and ocean
2. Moisture differences over land and ocean
3. Differential heating of land and ocean
4. All of the above

Options :

60348934271. 1

60348934272. 2

60348934273. 3

60348934274. 4

Question Number : 16 Question Id : 6034899084 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Ice cores
2. Tree rings
3. Layered sediments
4. None of the above

Options :

60348934275. 1

60348934276. 2

60348934277. 3

60348934278. 4

Question Number : 17 Question Id : 6034899085 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Magnetic
2. Thermal
3. Radioactive
4. All of the above

Options :

60348934279. 1

60348934280. 2

60348934281. 3

60348934282. 4

Question Number : 18 Question Id : 6034899086 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The largest reservoir of carbon on earth is _____

1. Vegetation
2. Deep ocean
3. Atmosphere
4. Sediments and rocks

Options :

60348934283. 1

60348934284. 2

60348934285. 3

60348934286. 4

Question Number : 19 Question Id : 6034899087 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

_____ removes atmospheric CO₂ on geological time scales.

1. Photosynthesis
2. Snowfall
3. Dust
4. Chemical weathering

Options :

60348934287. 1

60348934288. 2

60348934289. 3

60348934290. 4

Question Number : 20 Question Id : 6034899088 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Dynamic downscaling uses ____ to produce high resolution climate information.

1. Statistical relations
2. Regional climate models
3. Global climate models
4. None of the above

Options :

60348934291. 1

60348934292. 2

60348934293. 3

60348934294. 4

Question Number : 21 Question Id : 6034899089 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Broad areas of tropics and subtropics were dry
2. There were large seasonal temperature contrast between summer and winter hemispheres
3. There were super monsoons
4. All of the above

Options :

60348934295. 1

60348934296. 2

60348934297. 3

60348934298. 4

Question Number : 22 Question Id : 6034899090 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Pacific, Atlantic
2. Atlantic, Pacific
3. Atlantic, Indian
4. Pacific, Indian

Options :

60348934299. 1

60348934300. 2

60348934301. 3

60348934302. 4

Question Number : 23 Question Id : 6034899091 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. A decreasing
2. An increasing
3. No change
4. None of the above

Options :

60348934303. 1

60348934304. 2

60348934305. 3

60348934306. 4

Question Number : 24 Question Id : 6034899092 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Pressure
2. Salinity
3. Density
4. Temperature

Options :

60348934307. 1

60348934308. 2

60348934309. 3

60348934310. 4

Question Number : 25 Question Id : 6034899093 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Multi-decadal
2. Multi-century
3. Multi-million year
4. All of the above

Options :

60348934311. 1

60348934312. 2

60348934313. 3

60348934314. 4

Question Number : 26 Question Id : 6034899094 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Ellipse
2. Circle
3. Parabola
4. Hyperbola

Options :

60348934315. 1

60348934316. 2

60348934317. 3

60348934318. 4

Question Number : 27 Question Id : 6034899095 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The minimum distance between sun and the earth is called _____

1. Perihelion
2. Aphelion
3. Solstice
4. None of the above

Options :

60348934319. 1

60348934320. 2

60348934321. 3

60348934322. 4

Question Number : 28 Question Id : 6034899096 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. 2000
2. 100000
3. 11
4. 41000

Options :

60348934323. 1

60348934324. 2

60348934325. 3

60348934326. 4

Question Number : 29 Question Id : 6034899097 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Increase in tilt causes

1. More solar radiation to poles in summer and less radiation to poles in winter
2. Equal radiation to poles in summer and winter
3. Less solar radiation to poles in both summer and winter
4. Less solar radiation to poles in summer and more radiation in winter

Options :

60348934327. 1

60348934328. 2

60348934329. 3

60348934330. 4

Question Number : 30 Question Id : 6034899098 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The precession of earth varies at periods of _____ years

1. 26000
2. 413000
3. 1000000
4. 41000

Options :

60348934331. 1

60348934332. 2

60348934333. 3

60348934334. 4

Question Number : 31 Question Id : 6034899099 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Out-of-phase
2. Neutral
3. In-phase
4. Slower

Options :

60348934335. 1

60348934336. 2

60348934337. 3

60348934338. 4

Question Number : 32 Question Id : 6034899100 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. The orbit of each planet is an ellipse with the Sun at one focus
2. The planets revolve around the sun
3. Planets revolve around sun in circular orbits
4. None of the above

Options :

60348934339. 1

60348934340. 2

60348934341. 3

60348934342. 4

Question Number : 33 Question Id : 6034899101 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. 600 ppm
2. 200 ppm
3. 200 ppb
4. 400 ppm

Options :

60348934343. 1

60348934344. 2

60348934345. 3

60348934346. 4

Question Number : 34 Question Id : 6034899102 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Season
2. Rainfall
3. Thunder
4. Snowfall

Options :

60348934347. 1

60348934348. 2

60348934349. 3

60348934350. 4

Question Number : 35 Question Id : 6034899103 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Southwest monsoon
2. Northeast monsoon
3. Both 1 and 2
4. None of the above

Options :

60348934351. 1

60348934352. 2

60348934353. 3

60348934354. 4

Question Number : 36 Question Id : 6034899104 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Tropics are away from the glacial ice sheets
2. Cooler air from poles
3. Lower levels of atmospheric CO₂ and CH₄
4. All of the above

Options :

60348934355. 1

60348934356. 2

60348934357. 3

60348934358. 4

Question Number : 37 Question Id : 6034899105 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Flooding of coastlines was observed during _____ period.

1. Deglaciation
2. Last glacial maxima
3. Little ice age
4. None of the above

Options :

60348934359. 1

60348934360. 2

60348934361. 3

60348934362. 4

Question Number : 38 Question Id : 6034899106 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Low
2. Higher
3. Tropics
4. None of the above

Options :

60348934363. 1

60348934364. 2

60348934365. 3

60348934366. 4

Question Number : 39 Question Id : 6034899107 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

ITCZ is characterized by _____

1. Convective activity
2. Subsidence
3. High pressure
4. Low rainfall

Options :

60348934367. 1

60348934368. 2

60348934369. 3

60348934370. 4

Question Number : 40 Question Id : 6034899108 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. March-April
2. January-March
3. June-September
4. October-December

Options :

60348934371. 1

60348934372. 2

60348934373. 3

60348934374. 4

Question Number : 41 Question Id : 6034899109 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The time scale of the monsoon intraseasonal oscillations is _____

1. 10-90 days
2. 20-30 days
3. 2-5 days
4. None of the above

Options :

60348934375. 1

60348934376. 2

60348934377. 3

60348934378. 4

Question Number : 42 Question Id : 6034899110 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Vegetation
2. Atmosphere
3. Oceans
4. Land

Options :

60348934379. 1

60348934380. 2

60348934381. 3

60348934382. 4

Question Number : 43 Question Id : 6034899111 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Volcanic eruptions
2. Warm SST
3. Stronger winds
4. Rice cultivation

Options :

60348934383. 1

60348934384. 2

60348934385. 3

60348934386. 4

Question Number : 44 Question Id : 6034899112 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

A possible reason for the little ice age is _____

1. Permanent Elnino
2. Permanent Lanina
3. Series of volcanic eruptions
4. None of these

Options :

60348934387. 1

60348934388. 2

60348934389. 3

60348934390. 4

Question Number : 45 Question Id : 6034899113 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is a warm water current?

1. Kuroshio
2. Benguela
3. South equatorial current
4. North equatorial current

Options :

60348934391. 1

60348934392. 2

60348934393. 3

60348934394. 4

Question Number : 46 Question Id : 6034899114 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is a western boundary ocean current?

1. Benguela
2. South equatorial current
3. North equatorial current
4. Gulf stream

Options :

60348934395. 1

60348934396. 2

60348934397. 3

60348934398. 4

Question Number : 47 Question Id : 6034899115 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

India's first Earth system model was developed by _____

1. Indian Institute of Tropical Meteorology (IITM), Pune
2. India Meteorological Department (IMD), Delhi
3. Indian Institute of Science Education and Research (IISER), Pune
4. None of these

Options :

60348934399. 1

60348934400. 2

60348934401. 3

60348934402. 4

Question Number : 48 Question Id : 6034899116 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Abysopelatic
2. Euphotic
3. Anoxic
4. Hypoxic

Options :

60348934403. 1

60348934404. 2

60348934405. 3

60348934406. 4

Question Number : 49 Question Id : 6034899117 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

ENSO stands for _____

1. El Niño Southern Oscillation
2. Energy Supply Oscillation
3. Enhanced Southern Oscillation
4. None of the above

Options :

60348934407. 1

60348934408. 2

60348934409. 3

60348934410. 4

Question Number : 50 Question Id : 6034899118 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The full form of PDO is _____

1. Perturbed Diurnal Oscillation
2. Pacific Decadal Oscillation
3. Projected Diurnal Oscillation
4. Projected Decadal Oscillation

Options :

60348934411. 1

60348934412. 2

60348934413. 3

60348934414. 4

Question Number : 51 Question Id : 6034899119 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. 500
2. 280
3. 1200
4. 400

Options :

60348934415. 1

60348934416. 2

60348934417. 3

60348934418. 4

Question Number : 52 Question Id : 6034899120 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. CH₄
2. Halocarbons
3. CO₂
4. All of the above

Options :

60348934419. 1

60348934420. 2

60348934421. 3

60348934422. 4

Question Number : 53 Question Id : 6034899121 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The radiative forcing of aerosol direct effect is _____

1. Negative
2. Positive
3. Neutral
4. None of these

Options :

60348934423. 1

60348934424. 2

60348934425. 3

60348934426. 4

Question Number : 54 Question Id : 6034899122 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Decreases
2. Increases
3. Doesn't change
4. None of these

Options :

60348934427. 1

60348934428. 2

60348934429. 3

60348934430. 4

Question Number : 55 Question Id : 6034899123 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

_____ is responsible for ozone depletion in the stratosphere.

1. CO₂
2. CH₄
3. CFC
4. H₂O

Options :

60348934431. 1

60348934432. 2

60348934433. 3

60348934434. 4

Question Number : 56 Question Id : 6034899124 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. CO₂
2. SO₂
3. CH₄
4. None of the above

Options :

60348934435. 1

60348934436. 2

60348934437. 3

60348934438. 4

Question Number : 57 Question Id : 6034899125 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The periodicity of sunspot cycle is _____.

1. 100 year
2. 11 year
3. 230 year
4. 116 year

Options :

60348934439. 1

60348934440. 2

60348934441. 3

60348934442. 4

Question Number : 58 Question Id : 6034899126 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

- 1. 8.5
- 2. 2.6
- 3. 4.5
- 4. 1.5

Options :

60348934443. 1

60348934444. 2

60348934445. 3

60348934446. 4

Question Number : 59 Question Id : 6034899127 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

- 1. Positive, negative
- 2. Negative, positive
- 3. Positive, neutral
- 4. Neutral, positive

Options :

60348934447. 1

60348934448. 2

60348934449. 3

60348934450. 4

Question Number : 60 Question Id : 6034899128 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. 10-12
2. 1-2
3. 6.5-7
4. 20-25

Options :

60348934451. 1

60348934452. 2

60348934453. 3

60348934454. 4

Question Number : 61 Question Id : 6034899129 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The height of tropopause _____ from equator to poles.

1. Increases
2. Decreases
3. Constant
4. None of these

Options :

60348934455. 1

60348934456. 2

60348934457. 3

60348934458. 4

Question Number : 62 Question Id : 6034899130 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. 10-20
2. 50-200
3. 1000
4. 1-2

Options :

60348934459. 1

60348934460. 2

60348934461. 3

60348934462. 4

Question Number : 63 Question Id : 6034899131 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. CO₂
2. N₂O
3. SF₆
4. HFCs

Options :

60348934463. 1

60348934464. 2

60348934465. 3

60348934466. 4

Question Number : 64 Question Id : 6034899132 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. HFC, SF₆, CH₄, CO₂
2. CO₂, CH₄, HFC, SF₆
3. N₂O, CO₂, SF₆, HFC
4. N₂O, CH₄, SF₆, HFC

Options :

60348934467. 1

60348934468. 2

60348934469. 3

60348934470. 4

Question Number : 65 Question Id : 6034899133 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. A decrease
2. An increase
3. No change
4. None of these

Options :

60348934471. 1

60348934472. 2

60348934473. 3

60348934474. 4

Question Number : 66 Question Id : 6034899134 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Polar amplification refers to _____.

1. High rainfall at poles due to global warming
2. Stronger winds at equator due to global warming
3. Larger warming at high latitudes due to green house warming
4. All of the above

Options :

60348934475. 1

60348934476. 2

60348934477. 3

60348934478. 4

Question Number : 67 Question Id : 6034899135 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. 120 m above
2. 120 m below
3. 1200 m above
4. 1200 m below

Options :

60348934479. 1

60348934480. 2

60348934481. 3

60348934482. 4

Question Number : 68 Question Id : 6034899136 Question Type : MCQ Option Shuffling : No Is Question Mandatory : 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?

1. Western Indian Ocean > Central Indian Ocean > Upper Indian Ocean
2. Central Indian Ocean > Western Indian Ocean > Upper Indian Ocean
3. Upper Indian Ocean > Western Indian Ocean > Central Indian Ocean
4. Upper Indian Ocean > Central Indian Ocean > Western Indian Ocean

Options :

60348934483. 1

60348934484. 2

60348934485. 3

60348934486. 4

Question Number : 69 Question Id : 6034899137 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Sea level changes are measured using _____

1. Thermometer
2. Barometer
3. Anemometer
4. Tide gauge

Options :

60348934487. 1

60348934488. 2

60348934489. 3

60348934490. 4

Question Number : 70 Question Id : 6034899138 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. 2-3 mm/year
2. 2-3 m/year
3. 2-3 cm/year
4. 2-3 km/year

Options :

60348934491. 1

60348934492. 2

60348934493. 3

60348934494. 4

Question Number : 71 Question Id : 6034899139 Question Type : MCQ Option Shuffling : No Is Question Mandatory : 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?

1. Visakhapatnam
2. Kochi
3. Diamond Harbour
4. All of the above

Options :

60348934495. 1

60348934496. 2

60348934497. 3

60348934498. 4

Question Number : 72 Question Id : 6034899140 Question Type : MCQ Option Shuffling : No Is Question Mandatory : 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 _____

1. Downscaling
2. Upscaling
3. Forecast
4. Hindcast

Options :

60348934499. 1

60348934500. 2

60348934501. 3

60348934502. 4

Question Number : 73 Question Id : 6034899141 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

NPP stands for _____

1. Net Partial Pressure
2. Net Primary Productivity
3. Net Partial Productivity
4. None of the above

Options :

60348934503. 1

60348934504. 2

60348934505. 3

60348934506. 4

Question Number : 74 Question Id : 6034899142 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. It increases
2. It decreases
3. It doesn't change
4. None of the above

Options :

60348934507. 1

60348934508. 2

60348934509. 3

60348934510. 4

Question Number : 75 Question Id : 6034899143 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The process of eutrophication is related to _____

1. Warmer temperatures
2. Excess nutrients
3. Strong winds
4. High oxygen levels

Options :

60348934511. 1

60348934512. 2

60348934513. 3

60348934514. 4

Question Number : 76 Question Id : 6034899144 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Saline
2. Hypoxia
3. Anoxia
4. None of these

Options :

60348934515. 1

60348934516. 2

60348934517. 3

60348934518. 4

Question Number : 77 Question Id : 6034899145 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following statements is true?

1. Radiative forcing due to anthropogenic greenhouse gases are now within the natural ranges
2. Radiative forcing due to anthropogenic emission of greenhouse gases are now beyond the natural ranges
3. Radiative forcing due to anthropogenic greenhouse gases are decreasing since industrial revolution
4. None of the above are true

Options :

60348934519. 1

60348934520. 2

60348934521. 3

60348934522. 4

Question Number : 78 Question Id : 6034899146 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The full form of the drought index PDSI is _____

1. Potential Drought Severity Index
2. Palmer Drought Severity Index
3. Precipitation Drought Sensing Index
4. None of the above

Options :

60348934523. 1

60348934524. 2

60348934525. 3

60348934526. 4

Question Number : 79 Question Id : 6034899147 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Constant
2. Decreasing
3. Increasing
4. Zero

Options :

60348934527. 1

60348934528. 2

60348934529. 3

60348934530. 4

Question Number : 80 Question Id : 6034899148 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Climate
2. Atmosphere
3. Variability
4. None of the above

Options :

60348934531. 1

60348934532. 2

60348934533. 3

60348934534. 4

Question Number : 81 Question Id : 6034899149 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Climate change happens over what time scales?

1. Tectonic
2. Decadal
3. Millennial
4. All of the above

Options :

60348934535. 1

60348934536. 2

60348934537. 3

60348934538. 4

Question Number : 82 Question Id : 6034899150 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Per mill
2. Parts per million, ppm
3. °C
4. mm/d

Options :

60348934539. 1

60348934540. 2

60348934541. 3

60348934542. 4

Question Number : 83 Question Id : 6034899151 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following is not an external force?

1. Changes in earth's orbit
2. Changes in plate tectonics
3. Changes in vegetation
4. Changes in sun's strength

Options :

60348934543. 1

60348934544. 2

60348934545. 3

60348934546. 4

Question Number : 84 Question Id : 6034899152 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Atmosphere
2. Deep ocean
3. Ocean surface
4. Sea ice

Options :

60348934547. 1

60348934548. 2

60348934549. 3

60348934550. 4

Question Number : 85 Question Id : 6034899153 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The reflectivity of a surface is called its _____

1. Refractivity
2. Albedo
3. Transparency
4. Heat capacity

Options :

60348934551. 1

60348934552. 2

60348934553. 3

60348934554. 4

Question Number : 86 Question Id : 6034899154 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Deficit, surplus
2. Surplus, deficit
3. Low, high
4. None

Options :

60348934555. 1

60348934556. 2

60348934557. 3

60348934558. 4

Question Number : 87 Question Id : 6034899155 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which one of the following statements is true?

1. Water holding capacity of air is independent of temperature
2. Cold air holds more water vapour than hot air
3. Warm air holds more water vapour than cold air
4. Both 1 and 2

Options :

60348934559. 1

60348934560. 2

60348934561. 3

60348934562. 4

Question Number : 88 Question Id : 6034899156 Question Type : MCQ Option Shuffling : No Is Question Mandatory : 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 _____

- 1. Stratosphere
- 2. Atmosphere
- 3. Mesosphere
- 4. Troposphere

Options :

60348934563. 1

60348934564. 2

60348934565. 3

60348934566. 4

Question Number : 89 Question Id : 6034899157 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

- 1. Decreases
- 2. Increases
- 3. Doesn't change
- 4. None

Options :

60348934567. 1

60348934568. 2

60348934569. 3

60348934570. 4

Question Number : 90 Question Id : 6034899158 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Chemical weathering acts as a _____ climate feedback.

1. Negative
2. Positive
3. Neutral
4. None of the above

Options :

60348934571. 1

60348934572. 2

60348934573. 3

60348934574. 4

Question Number : 91 Question Id : 6034899159 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Wet
2. Dry
3. Active
4. Humid

Options :

60348934575. 1

60348934576. 2

60348934577. 3

60348934578. 4

Question Number : 92 Question Id : 6034899160 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What causes seasons on Earth?

1. Orbit of the earth
2. Tilt of the axis of rotation
3. Rotation of earth
4. All of the above

Options :

60348934579. 1

60348934580. 2

60348934581. 3

60348934582. 4

Question Number : 93 Question Id : 6034899161 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

ITCZ stands for _____

1. Intensified Tropical Circulation Zone
2. Inter-Tropical Convergence Zone
3. Inner Thermal Core Zone
4. None of the above

Options :

60348934583. 1

60348934584. 2

60348934585. 3

60348934586. 4

Question Number : 94 Question Id : 6034899162 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following is not an orbital parameter?

1. Obliquity
2. Precession
3. Ellipticity
4. Velocity

Options :

60348934587. 1

60348934588. 2

60348934589. 3

60348934590. 4

Question Number : 95 Question Id : 6034899163 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Changes in eccentricity causes the changes in _____

1. Tilt
2. Shape of orbit
3. Velocity
4. Rotation

Options :

60348934591. 1

60348934592. 2

60348934593. 3

60348934594. 4

Question Number : 96 Question Id : 6034899164 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. 5 km higher
2. 500 m higher
3. 600-1000 m lower
4. The same

Options :

60348934595. 1

60348934596. 2

60348934597. 3

60348934598. 4

Question Number : 97 Question Id : 6034899165 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Indian Institute of Tropical Meteorology (IITM)
2. India Meteorological Department (IMD)
3. Indian Institute of Science Education and Research (IISER)
4. None of these

Options :

60348934599. 1

60348934600. 2

60348934601. 3

60348934602. 4

Question Number : 98 Question Id : 6034899166 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following statement is true?

1. The changes in surface air temperature over India shows a reduction during past 100 years
2. All India averaged surface air temperature shows accelerated warming during recent years
3. All India averaged surface air temperature doesn't show any trend during recent years
4. All of the above

Options :

60348934603. 1

60348934604. 2

60348934605. 3

60348934606. 4

Question Number : 99 Question Id : 6034899167 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The time scale of Millennial oscillations is _____ of years.

1. Thousands
2. Hundreds
3. Tens
4. None of the above

Options :

60348934607. 1

60348934608. 2

60348934609. 3

60348934610. 4

Question Number : 100 Question Id : 6034899168 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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

1. Ice cores
2. Corals
3. Tree rings
4. Lake sediments

Options :

60348934611. 1

60348934612. 2

60348934613. 3

60348934614. 4