PREVIEW QUESTION BANK

Module Name : nou24-ge21 Introduction to Climate Change-ENG
Exam Date : 18-May-2024 Batch : 09:00-12:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	12301001	Given below are two statements: Statement (I): Weather comprises the day-to-day conditions of the atmosphere at any place. Statement (II): Climate is the average state of the weather patterns over an area. In light of the above statements,choose the *most appropriate* answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
2	12301002	The Global surface air temperature is about ____ 1. 14^0C 2. 16^0C 3. 15^0C 4. 13^0C A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
3	12301003		2.0	0.00

		India aspires to achieve carbon neutrality by the year _____ 1. 2050 2. 2060 3. 2070 4. 2080 A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
4	12301004	Identify the correct sequence of atmospheric layers. 1. Troposphere, mesosphere, stratosphere and thermosphere 2. Troposphere, stratosphere, mesosphere and thermosphere 3. Stratosphere, troposphere, mesosphere and thermosphere 4. Troposphere, mesosphere, ozonosphere and thermosphere A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
5	12301005	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : In the stratosphere, the air temperature generally increases with height. Reason (R) : The air in the stratosphere lacks turbulence. In light of the above statements, choose the *correct* answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3	2.0	0.00

		A4 : 4		
Objective Question				
6	12301006	λ_{max} of insolation is ____ 1. 0.5 µm 2. 1.5 µm 3. 1.0 µm 4. 2.0 µm A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
7	12301007	Which one of the following is not the natural drivers of climate change? 1. Solar variability 2. Orbital variations 3. Volcanic eruptions 4. Land use changes A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
8	12301008	_____ refers to the amount of greenhouse gases emitted for every unit increase of GDP. 1. Greenhouse gases intensity 2. Emission intensity 3. Environmental Kuznets intensity 4. Ecological intensity A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00

Objective Question				
9	12301009	Given below are two statements: Statement (I): Well mixed GHGs are mixed throughout the troposphere. Statement (II): Well-mixed greenhouse gases include carbon dioxide, nitrous oxide, methane, sulphur hexafluoride. In light of the above statements,choose the *most appropriate* answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
10	12301010	Given below are two statements: Statement (I): In a warming climate, the atmospheric concentration of water vapour increases, which greatly increases the greenhouse effect and leading to further warming. Statement (II): Water vapour feedback is positive feedback. In light of the above statements,choose the *most appropriate* answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
11	12301011	The carboniferous period belongs to _____ era. 1. Proterozoic 2. Palaeozoic 3. Mesozoic 4. Cenozoic	2.0	0.00

		A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
12	12301012	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : The sediment deposits of near shore archaeological sites give information of the sea level changes. Reason (R) : Distinct layers of sediments are deposited in the near shore archaeological sites under marine to freshwater conditions. In light of the above statements, choose the *correct* answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
13	12301013	Given below are two statements: Statement (I): Mass extinctions occurred during End Ordovician, End Devonian Permian/Triassic boundary, End Triassic and Cretaceous/Tertiary boundary. Statement (II): The five great mass extinctions had been recorded in the Phanerozoic history of life. In light of the above statements,choose the *most appropriate* answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00

Objective Question				
14	12301014	_____ are formed due to the near surface evaporation of groundwater. 1. Evaporates 2. Calcretes 3. Varves 4. Stalagmite A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
15	12301015	_____ are lithified glacial deposits. 1. Tillites 2. Eskers 3. Varves 4. Glacial Striae A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
16	12301016	_____ is the maximum number of individuals of a population that a particular environment can support for an indefinite period assuming no changes in environment. 1. Environmental capacity 2. Carrying capacity 3. Optimum population 4. Sustainable population A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00

Objective Question

17	12301017	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : The Urban Heat Island (UHI) effect is due to the increase in temperature in urban areas than near surroundings by anthropogenic waste heat emissions. Reason (R) : The temperature of urban areas has increased due to direct heat generation from human activities, removal of vegetation, construction of buildings, roads, pavement and other human transformations of the natural environment. In light of the above statements, choose the *correct* answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00

Objective Question

18	12301018	The average temperature increases for 2081-2100 under RCP 4.5 scenario is _____ 1. 2.4^0C 2. 4.3^0C 3. 2.8^0C 4. 1.6^0C A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00

Objective Question

19	12301019	The average global mean sea level rise for 2081-2100 under RCP 2.6 scenario is _____ 1. 0.48 m 2. 0.63 m 3. 0.4 m 4. 0.2 m A1 : 1 A2 : 2	2.0	0.00

		A3 : 3 A4 : 4		
Objective Question				
20	12301020	Between 1901 to 2010, the global mean sea level rose by _____ 1. 0.17 m 2. 0.19 m 3. 0.21 m 4. 0.23 m A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
21	12301021	_____ is defined as ground including rock or soil, at or below the freezing point of water for two or more years. 1. Moraines 2. Glacial striae 3. Clathrate hydrates 4. Permafrost A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
22	12301022	Which one of the following is not the impact of melting glaciers? 1. Loss of polar biodiversity 2. Glacial Lake outburst 3. Reduction in hydropower potential 4. Depletion of lakes and reservoirs A1 : 1 A2 : 2 A3 : 3	2.0	0.00

		A4 : 4		
Objective Question				
23	12301023	_____ is a tool for evaluating environmental effects from a product, process or activity throughout its lifetime. 1. Life cycle assessment 2. Life cycle analysis 3. Environmental Impact Assessment 4. Environmental Impact Analysis A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
24	12301024	Social relationships are _____ type of capital. 1. Financial 2. Human 3. Physical 4. Social A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
25	12301025	_____ is an intervention to reduce the emissions sources or enhance the sinks of greenhouse gases. 1. Adaptation 2. Mitigation 3. Resilience 4. Coping strategy A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00

Objective Question

26	12301026	Given below are two statements: Statement (I): Climate-resilient pathways aim to reduce climate change and its impacts. Statement (II): Climate-resilient pathways ensure that effective risk management institutions, strategies, and choices can be identified, implemented, and sustained as an integrated part of development processes. In light of the above statements,choose the *most appropriate* answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00

Objective Question

27	12301027	Terrestrial carbon pool includes _____ 1. Oceanic and geological pool 2. Biotic and geological pool 3. Pedological and biotic pool 4. Oceanic, geological and pedological pool A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00

Objective Question

28	12301028		2.0	0.00

		Given below are two statements: Statement (I): A refugee is someone who has left his or her country of origin and is unable or unwilling to return because of a serious threat to his or her life or freedom. Statement (II): Refugees are entitled to protection from forcible return to their country of origin (the principle of non-refoulement) and have other rights and duties that are set out in the 1951 Convention. In light of the above statements,choose the *most appropriate* answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
29	12301029	Given below are two statements: Statement (I): UNFCCC and SDG 13 endeavour to strengthen and augment the resilience and adaptive capacity. Statement (II): The developing countries and low-income countries in their pursuit to sustainable development, require climate change interventions. In light of the above statements,choose the *most appropriate* answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
30	12301030	India's net GHG emissions for the year 2019 is _____ 1. 2.6 billion tonnes of CO_{2eq} 2. 3.0 billion tonnes of CO_{2eq} 3. 1.2 billion tonnes of CO_{2eq} 4. 4.6 billion tonnes of CO_{2eq}	2.0	0.00

		A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
31	12301031	COP 28 to UNFCCC was held at _____ 1. Sharm El-Sheikh 2. Paris 3. Dubai 4. Glasgow A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
32	12301032	Which one of the following gases is not covered under Kyoto protocol? 1. Nitrous oxide. 2. Nitrogen dioxide. 3. Perfluorocarbons. 4. Sulphur hexafluoride A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
33	12301033	_____ is a global mechanism developed for local Governments by local Governments at the World Mayors Summit in 2010. 1. C20 cities 2. C40 cities 3. Action on climate today 4. Carbonn cities climate registry	2.0	0.00

		A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
34	12301034	Atmospheric concentration of carbon dioxide is ___ 1. 0.040% 2. 0.030% 3. 0.035% 4. 0.045% A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
35	12301035	Given below are two statements: Statement (I): Troposphere is the lowermost layer of the atmosphere. Statement (II): Troposphere contains about 55% of the mass of the atmosphere. In light of the above statements,choose the *most appropriate* answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
36	12301036		2.0	0.00

		Which one of the following factors influence the amount of solar energy reaching the top of atmosphere? 1. Solar output 2. Distance between the Earth and the Moon 3. Altitude of the Sun 4. Length of the day A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
37	12301037	COP 29 on climate change will be convened at _____ 1. Baku 2. Dubai 3. Montreal 4. Paris A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
38	12301038	---------- law states that the wavelength of maximum emission varies inversely with the absolute temperature of the radiating body. 1. Stefan-boltzmann law 2. Beers law 3. Wien's law 4. Kirchhoff's law A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
39	12301039		2.0	0.00

		Precession or wobble of earth's spin axis involves _____. 1. 11,000 years 2. 23,000 years 3. 41,000 years 4. 1,00,000 years A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
40	12301040	Given below are two statements: Statement (I): Near-term climate forcers are those compounds whose impact on climate occurs primarily within the first decade after their emission. Statement (II): Near-term climate forcers include methane, ozone and aerosols. In light of the above statements,choose the *most appropriate* answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
41	12301041	_____ is defined as the rate of change of an atmospheric variable, usually temperature, with height. 1. Inversion 2. Lapse rate 3. Gradient 4. Saturated lapse rate A1 : 1 A2 : 2 A3 : 3	2.0	0.00

		A4 : 4		
Objective Question				
42	12301042	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : During the Precambrian time, Earth's climate was warm. Reason (R) : The concentration of greenhouse gases like carbon dioxide, methane and water vapour were very high. In light of the above statements, choose the *correct* answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
43	12301043	Given below are two statements, one is labelled as Assertion (A) and other one labelled as Reason (R). Assertion (A) : Plant and animal remains are useful to reconstruct the climatic and environmental conditions of the past. Reason (R) : Plant and animal life are largely controlled by climatic conditions. In light of the above statements, choose the *correct* answer from the options given below. 1. Both (A) and (R) are true and (R) is the correct explanation of (A). 2. Both (A) and (R) are true but (R) is NOT the correct explanation of (A). 3. (A) is true but (R) is false. 4. (A) is false but (R) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
44	12301044	_____ are formed by evaporation of surface water under arid, dry and warm climates. 1. Stalactite 2. Striae 3. Varves 4. Evaporates	2.0	0.00

		A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
45	12301045	_____ is the study of pollen, spores, diatom and phytoliths. 1. Palaeontology 2. Phycology 3. Palynology 4. Phytology A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
46	12301046	_____ is defined as a reduction in arid, semi-arid, and dry sub-humid areas, of the biological or economic productivity and complexity of rain-fed cropland, irrigated cropland, or range, pasture, forest, and woodlands resulting from land uses or from a process or combination of processes, including processes arising from human activities and habitation patterns. 1. Salinisation 2. Alkalization 3. Land degradation 4. Acidification A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
47	12301047		2.0	0.00

		Given below are two statements: Statement (I): General Circulation Models are four–dimensional (4-D) models which simulate the climate based on physical laws, the flows of air and water in the atmosphere and/or the oceans, as well as the transfer of heat. Statement (II): A global climate model (GCM) is a complex mathematical representation of the major climate system components. In light of the above statements,choose the *most appropriate* answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4		
Objective Question				
48	12301048	_____ is defined as the process of evaluating the relative contributions of multiple causal factors to a change or event with an assignment of statistical confidence. 1. Attribution 2. Detection 3. Climate sensitivity 4. Climate uncertainty A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00
Objective Question				
49	12301049	_____ is a boundary between snow covered ground and ground free of snow. 1. Timber line 2. Snow line 3. Ecotone 4. Equilibrium line A1 : 1 A2 : 2	2.0	0.00

		A3 : 3 A4 : 4		
Objective Question				
50	12301050	Given below are two statements: Statement (I): Mass extinction is a phenomenon where sudden and permanent loss of large number of species or groups of organisms on earth's surface. Statement (II): Mass extinctions recorded in the Phanerozoic history of life are directly related to the wide spread changes to the past climate. In light of the above statements,choose the *most appropriate* answer from the options given below. 1. Both Statement (I) and Statement (II) are true. 2. Both Statement (I) and Statement (II) are false. 3. Statement (I) is true but Statement (II) is false. 4. Statement (I) is false but Statement (II) is true. A1 : 1 A2 : 2 A3 : 3 A4 : 4	2.0	0.00