1. Consider the following statements:						
Assertion (A): Ecological productivity decreases from the equator towards the poles.						
Reason (R): Insolation rapidly decreases from the equator towards the poles.						
Select the correct answer from the codes given below:						
(a) Both A and R are true and R is the correct explanation of A.						
(b) Both A and R are tru	ie but R is not the correct explanation of A.					
(c) A is true but R is false.						
(d) A is false but R is true.						
2. Which one of the following statements is correct?						
(a) The relative loss of energy due to respiration is lower from higher trophic levels.						
(b) Species at higher tro	ophic levels appear to be less efficient in using their available food supply.					
(c) Higher trophic levels	s tend to be less discrete than the lower ones.					
(d) Food chains tend to be reasonably long.						
3. Consider the following	ng protected areas:					
1. Bandipur	2. Bhitarkanika					
3. Manas	4. Sunderbans					
Which of the above are declared Tiger Reserves?						
(a) 1 and 2 only						
(b) 1, 3 and 4 only						
(c) 2, 3 and 4 only						
(d) 1, 2, 3 and 4						
4. Which of the following regions of India have been designated as biodiversity hotspots?						
Select the correct answer from the codes given below:						
1. Eastern Himalaya	2. Eastern Ghat					

3. Western Ghat	4. Western Himalaya					
Codes:						
(a) 1 and 2 only						
(b) 1 and 3 only						
(c) 2 and 4 only						
(d) 3 and 4 only						
5. Which of the following are t	he incorrect statements about 'Keystone species'.					
1. Keystone species are the smenvironment.	nall-sized plants and organisms which have large effect on the					
2. Keystone species play critical role in maintaining the structure of an ecological community.						
3. Keystone species do not generally affect other organisms.						
(a) 1 and 2						
(b) 2 and 3						
(c) 1 and 3						
(d) All are correct						
	Conservation of Nature (IUCN) red list version 2013 of the birds indicates as critically endangered. The reason for the decline in the number of these					
1. Loss, modification, fragmen	tation and degradation of habitat					
2. Environmental contaminant	S					
3. Poaching						
4. Use changes mainly convers	ion of large areas to intensive crop cultivation					
Select the answer from the co	des given below-					
(a) 1, 2, and 3						
(b) 2, 3, and 4						
(c) 1, 3, and 4						
(d) All of the above						

7. The Ministry of Environment and Forest declared India's first marine eco-sensitive zone in –
(a) Gulf of Kutch
(b) Palk Strait
(c) Gulf of Khambat
(d) Gulf of Mannar
8. Consider following statements about the Ozone Hole
(1) Ozone formation and destruction keep on happening
(2) Ozone destruction rate is higher than its formation rate
(3) Ozone destruction rate is equal to the its formation rate
Which of above statement is/ are true?
(a) (1) only
(b) (1) and (2) Only
(c) (1) and (3)
(d) (3) Only
9. Measuring BOD (biological oxygen demand) is primarily used for
(a)Estimating the types of microbes
(b)Determine the level of dissolved oxygen
(c)Estimating the quantity of organic matter in sewage water
(d)None of the above
10. Which of following statement is true about the Ecotone?
(a) It is meeting place of two different eco systems
(b) It is meeting place of two same eco systems
(c) Density of species is very low here
(d) All of the above.
11. The earth's satellite is kept moving in its orbit. It is due to the phenomenon of centripetal force provided by

(a) the rocket engine propelling the satellite
(b) the gravitational attraction of the earth on the satellite
(c) the gravitational attraction of the sun on the satellite
(d) the gravitational attraction of satellite on earth
12. Radar is used for
(a) detecting objects by using light waves
(b) reflecting sound waves to detect objects
(c) determining the presence and location of objects with radiowaves.
(d) tracking rain bearing clouds.
13. ISRO space vision 2025 includes:
1. Satellite based communication and navigation systems mainly for rural connectivity.
2. Space science mission for better under- standing of solar system and universe.
3. Reusable Launch Vehicles Technology demonstrator mission leading to Two-stage- To-orbit-(TSTO).
4. Planetary explorations to Mars and Venus. Which of the above statements is/are correct?
(a) 1 and 2
(b) 2 and 4
(c) 1, 2 and 3
(d) 2, 3 and 4
14. Consider the following statements about Ethernet and select the correct answers:
1. Ethernet is a family of computer networking technologies for wide area networks (WANs)
2. Data rates over Ethernet can be upto 100 gigabits per second.
3. Ethernet has a good degree of compatibility.
Codes:
(a) 1 and 2
(b) 2 and 3

(c) 1 and 3
(d) all the above
15. What are the rings of Saturn made from?
(a) Gases and clouds
(b) Large pieces of ice and rock
(c) Wind and storms
(d) Satellites
16. Enriched uranium is one in which?
(a) Percentage of 235U has been artificially increased
(b) Percentage of U has been artificially increased
(c) Percentage of 234U has been artificially increased
(d) Extra energy is pumped from outside
17. High Altitude Warfare School of the Indian Army is located at
(a) Gulmarg
(b) Siachin
(c) Leh
(d) Manali
18. What is Kessler Syndrome ?
(a) A disease where human talk while sleeping.
(b) A rare viral disease causing respiratory problems.
(c) A problem found in space launch vehicles.
(d) Proliferation of space debris in low earth orbit.
19. What is Nuclear transmutation?
(a) Conversion of one chemical element or isotope into another.
(b) Conversion of solid directly into gas

(b) 2 only
(c) 3 only
(d) 2 and 3 only
23. Consider the following statements:
1. Asian houbara bustards are endemic to the Indian Subcontinent.
2. Asian houbara bustards are listed as critically endangered under IUCN Red List.
Which of the statements given above is/are correct?
(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2
24. Consider the following statements:
1. The Dzukou valley is located at the border of Nagaland and Manipur.
2. The Dzukou valley is located adjacent to the Pulie Badze Wildlife Sanctuary.
3. The Pulie Badze Wildlife Sanctuary is located in Manipur.
Which of the statements given above is/are correct?
(a) 1 and 2 only
(b) 2 only
(c) 3 only
(d) 1, 2 and 3
25. With reference to Pradhan Mantri Fasal Bima Yojana (PMFBY), consider the following statements:
1. It covers all food $\&$ oilseed crops and annual commercial/horticultural crops for which past yield data is available.
2. Premium cost over and above the farmer share is subsidized by the Union Government only.
Which of the statements given above is/are correct?
(a) 1 only

- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Answer Sheet

1	Α	10	Α	19	Α
2	С	11	В	20	Α
3	В	12	С	21	С
4	В	13	С	22	С
5	С	14	В	23	D
6	D	15	В	24	Α
7	Α	16	Α	25	Α
8	В	17	Α		
9	С	18	D		