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2015

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प्रश्नपुस्तिका क्रमांक

BOOKLET NO.

प्रश्नपुस्तिका-II

एकूण प्रश्न : 100

वेळ : 1 ( एक ) तास

NATURE CONSERVATION

एकूण गुण : 200

**सूचना**

- (1) सदर प्रश्नपुस्तिकेत 100 अनिवार्य प्रश्न आहेत. उमेदवारांनी प्रश्नांची उत्तरे लिहिण्यास सुरुवात करण्यापूर्वी या प्रश्नपुस्तिकेत सर्व प्रश्न आहेत किंवा नाहीत याची खात्री करून घ्यावी. असा तसेच अन्य काही दोष आढळल्यास ही प्रश्नपुस्तिका समवेक्षकांकडून लगेच बदलून घ्यावी.

परीक्षा-क्रमांक

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केंद्राची संकेताक्षरे

शेवटचा अंक

- (2) आपला परीक्षा-क्रमांक ह्या चौकोनात न विसरता बॉलपेनने लिहावा.

- (3) वर छापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर विशिष्ट जागी उत्तरपत्रिकेवरील सूचनेप्रमाणे न विसरता नमूद करावा.
- (4) या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तरे सुचविली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या चार उत्तरांपैकी सर्वात योग्य उत्तराचा क्रमांक उत्तरपत्रिकेवरील सूचनेप्रमाणे तुमच्या उत्तरपत्रिकेवर नमूद करावा. अशा प्रकारे उत्तरपत्रिकेवर उत्तरक्रमांक नमूद करताना तो संबंधित प्रश्नक्रमांकासमोर छायांकित करून दर्शविला जाईल याची काळजी घ्यावी. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.
- (5) सर्व प्रश्नांना समान गुण आहेत. यास्तव सर्व प्रश्नांची उत्तरे द्यावीत. घाईमुळे चुका होणार नाहीत याची दक्षता घेऊनच शक्य तितक्या वेगाने प्रश्न सोडवावेत. क्रमाने प्रश्न सोडविणे श्रेयस्कर आहे पण एखादा प्रश्न कठीण वाटल्यास त्यावर वेळ न घालविता पुढील प्रश्नाकडे वळावे. अशा प्रकारे शेवटच्या प्रश्नापर्यंत पोहोचल्यानंतर वेळ शिल्लक राहिल्यास कठीण म्हणून वगळलेल्या प्रश्नांकडे परतणे सोईस्कर ठरेल.
- (6) उत्तरपत्रिकेत एकदा नमूद केलेले उत्तर खोडता येणार नाही. नमूद केलेले उत्तर खोडून नव्याने उत्तर दिल्यास ते तपासले जाणार नाही.
- (7) प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे मूल्यांकन करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच “उमेदवाराने वस्तुनिष्ठ बहुपर्यायी स्वरूपाच्या प्रश्नांची दिलेल्या चार पर्यायांपैकी सर्वात योग्य उत्तरेच उत्तरपत्रिकेत नमूद करावीत. अन्यथा त्यांच्या उत्तरपत्रिकेत सोडविलेल्या प्रत्येक चार चुकीच्या उत्तरांसाठी एका प्रश्नाचे गुण वजा करण्यात येतील”.

**ताकीद**

ह्या प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपेपर्यंत ही प्रश्नपुस्तिका आयोगाची मालमत्ता असून ती परीक्षाकक्षात उमेदवाराला परीक्षेसाठी वापरण्यास देण्यात येत आहे. ही वेळ संपेपर्यंत सदर प्रश्नपुस्तिकेची प्रत/प्रती, किंवा सदर प्रश्नपुस्तिकेतील काही आशय कोणत्याही स्वरूपात प्रत्यक्ष वा अप्रत्यक्षपणे कोणत्याही व्यक्तीस पुरविणे, तसेच प्रसिद्ध करणे हा गुन्हा असून अशी कृती करणाऱ्या व्यक्तीवर शासनाने जारी केलेल्या “परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचा अधिनियम-82” यातील तरतुदीनुसार तसेच प्रचलित कायद्याच्या तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.

तसेच ह्या प्रश्नपत्रिकेसाठी विहित केलेली वेळ संपण्याआधी ही प्रश्नपुस्तिका अनधिकृतपणे बाळगणे हा सुद्धा गुन्हा असून तसे करणारी व्यक्ती आयोगाच्या कर्मचारीवृंदापैकी, तसेच परीक्षेच्या पर्यवेक्षकीयवृंदापैकी असली तरीही अशा व्यक्तीविरुद्ध उक्त अधिनियमानुसार कारवाई करण्यात येईल व दोषी व्यक्ती शिक्षेस पात्र होईल.

**पुढील सूचना प्रश्नपुस्तिकेच्या अंतिम पृष्ठावर पहा**

पर्यवेक्षकांच्या सूचनेविना हे सील उघडू नये

कच्च्या कामासाठी जागा /SPACE FOR ROUGH WORK



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1. The cultures Azotobacter and Azospirillum are used for \_\_\_\_\_ crops for the nutrition of nitrogen.

- (a) Leguminous
- (b) Non - leguminous
- (c) Both leguminous and non-leguminous
- (d) None of the above

**Answer options :**

- (1) (a) only
  - (2) (b) only
  - (3) both (a) and (b)
  - (4) none of the above
- 

2. Loam soils are those which \_\_\_\_\_.

- (a) Contain equal proportion of sand, silt and clay.
- (b) Exhibit the properties of sand, silt and clay in equal proportions.
- (c) Exhibit dominant physical properties of sand, silt and clay.
- (d) Have more proportion of silt and clay compared to that of sand.

**Answer options :**

- (1) (a) and (c) only
  - (2) (b) only
  - (3) (d) only
  - (4) None of the above
- 

3. The most abundant metallic element occurring in the earth's crust is \_\_\_\_\_.

- (1) Si
  - (2) O
  - (3) Al
  - (4) Fe
- 

4. Which is the process of removal of excess salts from the soils ?

- (1) Solodization
  - (2) Desalinization
  - (3) Podzolization
  - (4) Pedoturbation
- 

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P.T.O.

5. Which of the following chemical amendments are suitable for reclamation of saline and alkaline soils ?

(a) Gypsum                      (b) Sulphur                      (c) Iron sulphate                      (d) Pyrites

**Answer options :**

- (1) (a) and (b) only                      (2) (b) and (c) only  
(3) (d) only                      (4) (a), (b), (c) and (d)
- 

6. Which of the following are the agronomic measures of soil and water conservation ?

(a) Contour cultivation  
(b) Organic manures and fertilizers  
(c) Contour trenching  
(d) Grasses

**Answer options :**

- (1) (a) and (b) only                      (2) (c) and (d) only  
(3) (a), (b) and (d) only                      (4) (a), (b), (c) and (d)
- 

7. What concept is adopted in watershed planning and implementation ?

(1) Valley to ridge                      (2) Ridge to valley  
(3) Lower to higher                      (4) None of the above

---

8. Which one of the following two statements is **correct** ?

Soil applications of :

(a) BHC (10%) dust 25-30 kg/ha for white grub and  
(b) Thimet 20 G @ 15 kg/ha for termites

should be done and these chemicals should be mixed well in the soil at the time of final field preparation.

**Answer options :**

- (1) Only (a) is correct                      (2) Only (b) is correct  
(3) Both (a) and (b) are correct                      (4) Neither (a) nor (b) is correct
- 

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9. The All India Coordinated Research Project for Dry land Agriculture which is now Central Research Institute for Dry land Agriculture (CRIDA) is situated at \_\_\_\_\_.
- (1) Dehradun      (2) Chandigarh      (3) Delhi      (4) Hyderabad
- 
10. What is the permissible soil loss in agricultural land ?
- (1) 3 tons/ha      (2) 7 tons/ha      (3) 5 tons/ha      (4) 4 tons/ha
- 
11. A group of organisms of the same species that live, grow and reproduce in the same environment are called as :
- (1) Population      (2) Community      (3) Ecotype      (4) Society
- 
12. The percentage of energy transformed from one level to the next level of trophic structure is known as :
- (1) Energy pyramid      (2) Energy flow  
(3) Energy efficiency      (4) Trophic level
- 
13. A large ecological area characterised by similar vegetation and climate is called as :
- (1) Biosphere      (2) Ecosphere      (3) Biomass      (4) Biome
- 
14. Transfer of food energy from the producers through a series of organisms (herbivores to carnivores to decomposers) with repeated eating and being eaten is :
- (1) Food web      (2) Food chain  
(3) Ecological Energetics      (4) Detritus Food chain
- 
15. Which is a major storage place for atmospheric carbon-dioxide which is also referred to as a sink ?
- (1) Atmosphere      (2) Ocean      (3) Living organisms      (4) Land
- 

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16. Which of the following is the non-essential but useful element for plant (crop) and animal ?

- (a) Chlorine                      (b) Strontium                      (c) Vanadium                      (d) Bromine

**Answer options :**

- (1) (a) and (b) only                      (2) (a), (b) and (c) only  
(3) (b), (c) and (d) only                      (4) None of the above

17. Average N,  $P_2O_5$  and  $K_2O$  nutrient content in Farm Yard Manure are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ respectively.

- (1) 2.5–3.5 per cent, 0.6–1.8 per cent and 0.3–0.9 per cent  
(2) 0.3–0.9 per cent, 2.0–2.5 per cent and 2.5–3.0 per cent  
(3) 4.0–5.5 per cent, 3.0–3.5 per cent and 1.5–2.0 per cent  
(4) 0.5–1.5 per cent, 0.4–0.8 per cent and 0.5–1.9 per cent

18. Which organisms use organic compounds as their source of carbon ?

- (1) Autotrophs                      (2) Facultative                      (3) Autochthonous                      (4) Heterotrophs

19. Raw bone meal contains about \_\_\_\_\_ per cent  $P_2O_5$  and \_\_\_\_\_ per cent Nitrogen.

- (1) 32%  $P_2O_5$  and 6% Nitrogen                      (2) 35%  $P_2O_5$  and 2% Nitrogen  
(3) 30%  $P_2O_5$  and 2% Nitrogen                      (4) 25%  $P_2O_5$  and 4% Nitrogen

20. The highest nitrogen containing fertilizer is \_\_\_\_\_.

- (1) Urea                      (2) Ammonium sulphate  
(3) Anhydrous ammonia                      (4) Ammonium nitrate

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK



21. *Staphylococci* and *Pneumococci* may cause \_\_\_\_\_.

- |                    |                           |
|--------------------|---------------------------|
| (1) Syphilis       | (2) Relapsing fever       |
| (3) Conjunctivitis | (4) Tsutsugamushi disease |
- 

22. Zoonotic diseases spread from \_\_\_\_\_ to \_\_\_\_\_.

- |                       |                       |
|-----------------------|-----------------------|
| (1) animals to plants | (2) animals to humans |
| (3) plants to animals | (4) plants to humans  |
- 

23. Teak wood is attacked by \_\_\_\_\_.

- |                      |                              |
|----------------------|------------------------------|
| (1) Smut             | (2) <i>Pythium</i>           |
| (3) <i>Claviceps</i> | (4) <i>Uncinula tectonea</i> |
- 

24. Vermins are pests or nuisance animals. Which schedule of the Wildlife (Protection) Act, 1972 lists vermins ?

- |                  |                 |                |                 |
|------------------|-----------------|----------------|-----------------|
| (1) Schedule III | (2) Schedule IV | (3) Schedule V | (4) Schedule VI |
|------------------|-----------------|----------------|-----------------|
- 

25. This is a universal parasite of cattle, several species of this pest infest domestic animals in India and Pakistan. It clings to the hairs with its claw - like legs and thrust its mouthparts into the skin for sucking blood. Name the parasite :

- |                |                  |                 |                  |
|----------------|------------------|-----------------|------------------|
| (1) Blow flies | (2) Cattle louse | (3) Cattle tick | (4) Stable flies |
|----------------|------------------|-----------------|------------------|
- 

26. Pyrethrum bombs were used during the \_\_\_\_\_ war.

- |                           |                        |
|---------------------------|------------------------|
| (1) America - Vietnam war | (2) I World War        |
| (3) II World War          | (4) America - Iraq war |
- 

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

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27. Which of the following statements regarding DDT are **correct** ?

- (a) It is classified as organochlorine insecticide.
- (b) It is persistent inorganic pollutant.
- (c) Once it enters the blood chain, its level keeps increasing.
- (d) It is persistent organic pollutant.

**Answer options :**

- (1) (a) only
  - (2) (b) and (c) only
  - (3) (a) and (c) only
  - (4) (a), (c) and (d) only
- 

28. Match the following :

- |                         |                    |
|-------------------------|--------------------|
| (a) Physical poison     | (i) Methyl bromide |
| (b) Nerve poison        | (ii) Lead arsenate |
| (c) Protoplasmic poison | (iii) Malathion    |
| (d) Respiratory poison  | (iv) Silica        |

**(a) (b) (c) (d)**

- (1) (i) (ii) (iii) (iv)
  - (2) (ii) (i) (iii) (iv)
  - (3) (iii) (iv) (i) (ii)
  - (4) (iv) (iii) (ii) (i)
- 

29. Continuous increase in concentration of harmful pesticide residue in successive trophic levels is called \_\_\_\_\_.

- (1) Biovariation
  - (2) Biosensitisation
  - (3) Biological aggregation
  - (4) Biological magnification
- 

30. Which of the following is **not** a Synthetic Insecticide ?

- (1) DDT
  - (2) BHC
  - (3) Pyrethrin
  - (4) Aldrin
- 

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

31. Occurrence of *Equisetum plebejum* indicates presence of \_\_\_\_\_ rich soil.

- (1) Silver (2) Gold (3) Copper (4) Iron

32. Trade in electronic waste management is controlled by :

- (1) Rio De Janeiro Convention (2) Basel Convention  
(3) Agenda 21 (4) Bali Summit

33. With which one of the following pollutions is Blood Brain Barrier (BBB) a disorder in neurological system of human body related ?

- (1) High concentration of SO<sub>2</sub> in air (2) Radiation from mobile towers  
(3) Direct radiation of UV light (4) Passive cigarette smoking

34. The species that have not been seen continuously for more than \_\_\_\_\_ years in the wild state, are known as extinct species. e.g. Dodo.

- (1) 50 (2) 100 (3) 200 (4) 500

35. Match the following :

**Column - I**

**(Project to protect endangered animals)**

**Column - II**

**(Year)**

- |                                |            |
|--------------------------------|------------|
| (a) Lion Project               | (i) 1973   |
| (b) Tiger Project              | (ii) 1987  |
| (c) Crocodile Project          | (iii) 1972 |
| (d) Rhino conservation project | (iv) 1974  |

(a) (b) (c) (d)

- (1) (i) (iii) (ii) (iv)  
(2) (iii) (i) (iv) (ii)  
(3) (iii) (iv) (ii) (i)  
(4) (i) (iii) (iv) (ii)

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

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36. Match the following :

Column - I				Column - II			
(Pollutants)				(Effect)			
(a)	Mercury			(i)	Damage central nervous system		
(b)	Lead			(ii)	Damage immune system		
(c)	Cadmium			(iii)	Cronic damage to the brain		
(d)	PVC			(iv)	Accumulate in kidney and liver		
	(a)	(b)	(c)	(d)			
(1)	(iii)	(i)	(iv)	(ii)			
(2)	(iv)	(i)	(ii)	(iii)			
(3)	(iii)	(iv)	(i)	(ii)			
(4)	(i)	(iii)	(ii)	(iv)			

37. Government of India recently lifted ban on mining in Non-ecologically Sensitive Areas of the Talukas of which of the following districts in Maharashtra ?

- (1) Kolhapur                      (2) Sangli                      (3) Sindhudurg                      (4) Satara

38. The common feature related to Jamwa Ramgarh Sanctuary, Keladevi Sanctuary and Narayan Sarovar Sanctuary is :

- (1) All three wildlife sanctuaries have high rate of man animal conflicts.  
 (2) All sanctuaries have animal disease.  
 (3) Degradation of forest area due to limestone mining.  
 (4) Killing of wildlife after falling in mine pits.

39. Due to inhalation of coal dust, coal workers may be victims of this disease :

- (1) Asbestosis                      (2) Silicosis  
 (3) Gray lung disease                      (4) Pneumo coniosis

कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

40. The illegal and unscientific mining of iron ore in India in the first decade of 21<sup>st</sup> century was boosted by the construction boom in which of the following countries ?

- |                              |            |
|------------------------------|------------|
| (1) United States of America | (2) Brazil |
| (3) Australia                | (4) China  |

---

41. Which one of the following two statements is **incorrect** ?

- (a) Brow - Antlered deer is the most endangered deer in South Asia.  
(b) It is found only in Jammu and Kashmir.

**Answer options :**

- |                                    |                                      |
|------------------------------------|--------------------------------------|
| (1) Statement (a) is incorrect     | (2) Statement (b) is incorrect       |
| (3) Both (a) and (b) are incorrect | (4) Neither (a) nor (b) is incorrect |

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42. Elephants have highly developed sense of \_\_\_\_\_.

- (a) smell      (b) hearing      (c) sight      (d) all of the above

**Answer options :**

- |                      |  |
|----------------------|--|
| (1) (a) only         | (2) (a) and (b) only                     |
| (3) (a), (b) and (c) | (4) None of the above options is correct |

---

43. Exclusively Indian wild animal having striking colour, beautiful long spiralled horns is :

- |                              |                |
|------------------------------|----------------|
| (a) Cheetal or Spotted Deer  | (b) Sambhar    |
| (c) Barasingha or Swamp Deer | (d) Black Buck |

**Answer options :**

- |              |                 |
|--------------|-----------------|
| (1) (a) only | (2) (b) and (c) |
| (3) (c) only | (4) (d) only    |

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कच्चा कामासाठी जागा /SPACE FOR ROUGH WORK

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44. The Giant Panda is the official symbol of :

- (1) WPSI                      (2) WWF                      (3) CBSG                      (4) IUCN
- 

45. Indian four horned antelopes have special features :

- (a) Is the only antelope that is blessed with a pair of horns.  
(b) The male only bear horns.  
(c) The coat colour is fawn and shade of black on the lower part.  
(d) The anterior pair of horns is shorter than the posterior one.

**Answer options :**

- (1) (a), (b), (c) and (d) are correct      (2) (a), (b) and (d) are correct  
(3) (a), (b), (c) are correct                      (4) (b), (c), (d) are correct
- 

46. In India about 75% of the total matchwood industries are located in the state of \_\_\_\_\_.

- (1) Karnataka                      (2) Madhya Pradesh  
(3) Andhra Pradesh                      (4) Tamil Nadu
- 

47. Which one of the following two statements is **correct** ?

- (a) Well known fibre of commerce known as Kittul is obtained from the leaves of Caryota Urens, the sago palm.  
(b) Likewise Agave sps particularly Agave americana yields an excellent fibre. Agave sps however require lot of water and are not at all drought resistant.

**Answer options :**

- (1) Only (a) is correct                      (2) Only (b) is correct  
(3) Both are correct                      (4) Neither is correct
- 

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48. The rich source of Turpentine is \_\_\_\_\_ .

- (1) Fern (2) Sunflower (3) Pines (4) Moss plant
- 

49. Which one of the following two statements is **correct** ?

- (a) Gum Karaya is obtained from the bark of a tree called *sterculia urens*.  
(b) India almost has a monopoly in the production of the Gum, the most of which is exported.

**Answer options :**

- (1) Only (a) is correct (2) Only (b) is correct  
(3) Both are correct (4) Neither is correct
- 

50. The insect that cannot live without the fig and the fig trees cannot produce seed without the insect :

- (1) Honey bee (2) Wasp (3) Silkworm (4) Lac insect
- 

51. In the winter season plant roots need \_\_\_\_\_ soil.

- (1) Dry (2) Moist (3) Both (1) and (2) (4) None of these
- 

52. Plant produce maximum growth when exposed to a day temperature about \_\_\_\_\_ higher than the night temperature.

- (1) 5.5 to 8°C (2) 4.5 to 7°C (3) 6.5 to 9°C (4) 4 to 9°C
- 

53. The ability of many plants to flower is controlled by \_\_\_\_\_.

- (1) Photo period (2) Temperature (3) Water (4) Nutrition
- 

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54. Which one of the following two statements is **correct** ?

- (a) Plants lose water in transpiration to an extent of 69%.
- (b) Transpiration is measured by Lysimeter.

**Answer options :**

- (1) Only (a) is correct
  - (2) Only (b) is correct
  - (3) Both (a) and (b) are correct
  - (4) Neither (a) nor (b) is correct
- 

55. Which one of the following two statements is **correct** ?

- (a) Denitrification occurs in water logged soils.
- (b) The process by which  $N_2$  is reduced to ammonium ( $NH_4^+$ ) is denitrification.

**Answer options :**

- (1) Only (a) is correct
  - (2) Only (b) is correct
  - (3) Both (a) and (b) are correct
  - (4) Neither (a) nor (b) is correct
- 

56. \_\_\_\_\_ Mangrove Forest is the largest in the world both in size and biodiversity.

- (1) Gulf of Azaba
  - (2) Florida, United States
  - (3) Costa Rica
  - (4) Sundarban, India
- 

57. Mixed dense forest of tropical evergreen and temperate evergreen rain forest species are generally called :

- (1) Alpine
  - (2) Coniferous
  - (3) Deciduous
  - (4) Sholas
- 

58. *Rhizophora*, *Avicennia*, *Bruguiera* and *Ceriops* species are typically found in :

- (1) Moist Teak forest
  - (2) Sal forest
  - (3) Mangrove forest
  - (4) Ravine thorn forest
- 

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59. The composition of tropical thorn/scrub forest is deciduous with low thorny trees and xerophytes predominant, top canopy more or less broken and is less than :

- (1) 25 m high      (2) 20 m high      (3) 10 m high      (4) 5 m high
- 

60. The species or taxa likely to move into the endangered category in the near future if the causal factors continue operating :

- (1) Vulnerable species      (2) Rare species  
(3) Threatened species      (4) None of the above
- 

61. Lucerne, berseem, cowpea are the leguminous fodders rich in :

- (a) Carbohydrates and minerals  
(b) Proteins and minerals  
(c) Fats and minerals

**Answer options :**

- (1) (a) and (b) are correct      (2) only (b) is correct  
(3) (a) and (c) are correct      (4) (b) and (c) are correct
- 

62. Maharashtra is covered with \_\_\_\_\_ type of Grassland.

- (1) Sehima - dichanthium type  
(2) Themada - arundinella cover  
(3) Temperate - alpine cover  
(4) Dichanthium - cenchrus lesiurus cover
- 

63. Balankya strain of Deoni cattle has a complete white colour :

- (a) Without any spot on body  
(b) Partial black face  
(c) Black spots on total body

**Answer options :**

- (1) (a) only      (2) (a) and (b)      (3) (b) and (c)      (4) (a), (b) and (c)
- 

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64. Pastures closed to grazing in temperate regions and cut for hay or silage are called as :

- (a) Meadows
- (b) Silvi - pasture
- (c) Savanna
- (d) None of the above

**Answer options :**

- (1) (a) only
  - (2) (a) and (b) only
  - (3) (a), (b) and (c)
  - (4) (a) and (c) only
- 

65. Suitable management practices used to increase the milk production of cows grazing on pasture in combination are :

- (a) rotational grazing
- (b) grazing of fenced strips of pasture for short period
- (c) selective grazing by high yielding cows before low yielding ones
- (d) continuous grazing

**Answer options :**

- (1) (a), (b) and (c) only
  - (2) (d) only
  - (3) (c) only
  - (4) (b) and (c) only
- 

66. Which one of the following two statements is **correct** ?

- (a) A herbicide should not be sprayed when the wind velocity is high.
- (b) A herbicide should not be sprayed when it is hot and sunny.

**Answer options :**

- (1) Only (a) is correct
  - (2) Only (b) is correct
  - (3) Both (a) and (b) are correct
  - (4) Neither (a) nor (b) is correct
- 

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67. Which one of the following two statements is **correct** ?

- (a) Jim Corbett National Park is one of the World Heritage Sites.
- (b) Jim Corbett National Park is the first National Park established in India and was earlier called as Hailey National Park.

**Answer options :**

- (1) Only (a) is correct
- (2) Only (b) is correct
- (3) Both are correct
- (4) Neither (a) nor (b) is correct

68. Parthenium is an aggressive invasive alien weed, native to \_\_\_\_\_.

- (1) Asia
- (2) Africa
- (3) Australia
- (4) America

69. Regeneration of 'shola' forest is affected due to the invasive \_\_\_\_\_.

- (1) *Acacia auriculiformis*
- (2) *Acacia mearnsii*
- (3) *Mikania micrantha*
- (4) *Ulex europaeus*

70. On the basis of ontogeny weeds are classified as \_\_\_\_\_.

- (a) Grasses, sedges and broad leaf weeds
- (b) Obligate weeds and facultative weeds
- (c) Relative weeds and volunteer weeds
- (d) Annuals, Biennials and perennial weeds

**Answer options :**

- (1) (b) only
- (2) (a) and (c) only
- (3) (d) only
- (4) none of the above

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71. Which one of the following two statements is **incorrect** ?

- (a) The genetic uniformity is a major cause for disease epidemics.
- (b) Mutation cannot be artificially induced.

**Answer options :**

- (1) Only (a) is incorrect
  - (2) Only (b) is incorrect
  - (3) Both (a) and (b) are incorrect
  - (4) Neither (a) nor (b) is incorrect
- 

72. Which one of the following two statements is **correct** ?

- (a) In vitro describe biological processes that are made to occur outside the living body.
- (b) In vivo describe biological processes as they are observed to occur in glass.

**Answer options :**

- (1) Only (a) is correct
  - (2) Only (b) is correct
  - (3) Both (a) and (b) are correct
  - (4) Neither (a) nor (b) is correct
- 

73. Which one of the following two statements is **correct** ?

- (a) Back cross is a mating between individuals of the parental generation and the first generation of offspring.
- (b) Back cross is a mating between individuals of the parental generation and the second generation of offspring.

**Answer options :**

- (1) Only (a) is correct
  - (2) Only (b) is correct
  - (3) Both are correct
  - (4) Neither is correct
- 

74. Which one of the following two statements is **correct** ?

- (a) Culture medium in tissue culture contains a mixture of nutrients only in the liquid form.
- (b) Tissue culture has helped in gaining information on factors controlling growth and has helped in regeneration of complete plants.

**Answer options :**

- (1) Only (a) is correct
  - (2) Only (b) is correct
  - (3) Both are correct
  - (4) Neither is correct
- 

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75. Which one of the following two statements is **correct** ?

- (a) In cryotherapy plants are exposed to low temperatures.
- (b) The temperature range is usually between 0 – 3°C.

**Answer options :**

- (1) Only (a) is correct
- (2) Only (b) is correct
- (3) Both (a) and (b) are correct
- (4) Neither (a) nor (b) is correct

76. The reasons behind sea - level rise include :

- (a) thermal expansion of seas
- (b) melting of glaciers, ice caps, ice sheets
- (c) increased rainfall

**Answer options :**

- (1) (a), (b) and (c)
- (2) (b) and (c)
- (3) (a) and (b)
- (4) only (c)

77. Reduction of Green - house Gas (GHG) emission level for industrial nations agreed in the Kyoto Protocol is \_\_\_\_\_.

- (1) 2 %
- (2) 5 %
- (3) 10 %
- (4) 15 %

78. The India State of Forests Report (ISFR), 2013 has recorded \_\_\_\_\_ in the forest cover of India as compared to ISFR report 2011.

- (1) increase
- (2) decrease
- (3) gaps
- (4) no change

79. Established in 1988 for the purpose of controlling Green-house gases in the atmosphere and to provide the world with a clear scientific view on the current state of climate change :

- (1) The Intergovernment Panel on Climate Change
- (2) United Nations Framework Conservation on Climate Change
- (3) Kyoto Protocol
- (4) Green Mission

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80. Which one of the following two statements is **incorrect** ?

- (a) Save the Silent Valley campaign was launched by the state's Shashtra Sahitya Parishad.
- (b) Save the Taj campaign has been launched by Chandi Prasad Bhat.

**Answer Options :**

- (1) Only (a) is incorrect
  - (2) Only (b) is incorrect
  - (3) Both (a) and (b) are incorrect
  - (4) Neither (a) nor (b) is incorrect
- 

81. In which two types are the maps divided into based on content and purpose in aerial photography ?

- (1) Topographical map and Thematic map
  - (2) Topographical map and Geological map
  - (3) Thematic map and Natural map
  - (4) Geographical map and Natural map
- 

82. Which one of the following two statements is **correct** ?

- (a) The first indigenously built satellite INSAT-2A was launched in 1997.
- (b) INSAT 2D the last satellite in the multipurpose (INSAT 2D series) was launched from Kourou, French Guyana.

**Answer options :**

- (1) Only (a) is correct
  - (2) Only (b) is correct
  - (3) Both (a) and (b) are correct
  - (4) Neither (a) nor (b) is correct
- 

83. What are the common applications of remote sensing images and aerial photographs ?

- (1) Mitigation of the natural hazards
  - (2) Tracking of environmental disasters
  - (3) Forecast changes in environment
  - (4) Land use and land cover mapping
- 

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84. Which one of the following three statements is **incorrect** ?

- (1) Remote sensing methods depend upon only the emission and not reflection of electro magnetic radiation
  - (2) Human eye is a remote sensor
  - (3) Bats use Radar principle for searching their way
  - (4) None of the above
- 

85. Which is the visible portion of spectrum expressed in nanometers in aerial photographs ?

- (1) 420 nm - 650 nm
  - (2) less than 400 nm
  - (3) more than 750 nm
  - (4) 400 nm to 750 nm
- 

86. Protection of endangered species by preserving the entire ecosystem is known as :

- (1) In-situ conservation
  - (2) Ex-situ conservation
  - (3) Biodiversity conservation
  - (4) None of the above
- 

87. Which one of the 27 Tiger Reserves of India has been declared as a World Heritage Site by the UNESCO ?

- (1) Corbett in Uttaranchal
  - (2) Melghat in Maharashtra
  - (3) Manas in Assam
  - (4) Sundarban in West Bengal
- 

88. Which one of the following two statements is **correct** ?

- (a) Ex-situ approach means conservation of species not in the lab but in their natural habitat.
- (b) Ex-situ conservation is important particularly for endangered species.

**Answer options :**

- (1) Only (a) is correct
  - (2) Only (b) is correct
  - (3) Both (a) and (b) are correct
  - (4) Neither (a) nor (b) is correct
- 

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89. Fragile area rich in biodiversity with high degree of Endemism and higher incidence of rare and threatened species is known as :
- (1) Biosphere reserve (2) Hotspots  
(3) Ecosystem (4) Species richness
- 
90. Who has filed a Public Interest Litigation (PIL) in the Supreme Court of India, to save Taj Mahal from "Marble cancer," phenomena due to air pollution ?
- (1) Sunderlal Bahuguna (2) Sunita Narayan  
(3) M.C. Mehta (4) Anil Agrawal
- 
91. The concept of carbon credit came into existence as a result of awareness of the need for controlling emissions. Name the mechanism formalised on International Agreement between 170 countries :
- (1) GATT (2) Rio - Summit (3) Kyoto Protocol (4) WTO
- 
92. In 1950, who started a festival of planting trees known as Van mohotsav ?
- (1) Dr. Panjabrao Deshmukh (2) Indira Gandhi  
(3) Mohan Dharja (4) K.M. Munshi
- 
93. The scope of joint forest management has been largely confined to :
- (1) Severely eroded mountain slopes  
(2) Railway line strips  
(3) Canal banks  
(4) Degraded forest areas
- 
94. The major tribal community that resides in Lakshadweep is :
- (1) Aminidivi (2) Birhor (3) Totos (4) Buxas
- 
95. Which one of the following two statements is **correct** ?
- (a) There are 553 tribal communities living in India as per the notified schedule.  
(b) The schedule is notified under Article 342 of the constitution of India.
- Answer options :**
- (1) Only (a) is correct (2) Only (b) is correct  
(3) Both (a) and (b) are correct (4) Neither (a) nor (b) is correct
- 

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96. Which one of the following sequences of states from the highest to the lowest tribal population is **correct** ?
- (1) Madhya Pradesh, Maharashtra, Orissa, Gujarat
  - (2) Maharashtra, Madhya Pradesh, Gujarat, Orissa
  - (3) Madhya Pradesh, Orissa, Gujarat, Maharashtra
  - (4) Orissa, Madhya Pradesh, Maharashtra, Gujarat
- 

97. Which one of the following two statements is **correct** ?
- (a) As a result of the promulgation of the Forest (Conservation) Act, 1980 the non-forest use of the forest land has been restricted.
  - (b) Even for felling a tree permission of the designated officer of the Central Government is a must.

**Answer options :**

- (1) Only (a) is correct
  - (2) Only (b) is correct
  - (3) Both (a) and (b) are correct
  - (4) Neither (a) nor (b) is correct
- 

98. The Species which are in danger of extinction are called as :
- (a) Vulnerable
  - (b) Threatened
  - (c) Endangered
  - (d) Rare

**Answer options :**

- (1) (a) only
  - (2) (b) and (c)
  - (3) (c) only
  - (4) (c) and (d) only
- 

99. Which one of the following two statements is **correct** ?
- (a) The first World Climate Conference was held at Nairobi, Kenya.
  - (b) The fourteenth World Forestry Congress scheduled in September, 2015 will be held at Geneva, Switzerland.

**Answer options :**

- (1) Only (a) is correct
  - (2) Only (b) is correct
  - (3) Both
  - (4) Neither
- 

100. The United Nations Environmental Programme (UNEP) was launched in order to encourage United Nations agencies to integrate environmental measures into their programs in the year :
- (1) 1990
  - (2) 1985
  - (3) 1975
  - (4) 1972
- 

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### सूचना — ( पृष्ठ 1 वरून पुढे.... )

- (8) प्रश्नपुस्तिकेमध्ये विहित केलेल्या विशिष्ट जागीच कच्चे काम (रफ वर्क) करावे. प्रश्नपुस्तिकेव्यतिरिक्त उत्तरपत्रिकेवर वा इतर कागदावर कच्चे काम केल्यास ते कापणी करण्याच्या उद्देशाने केले आहे, असे मानले जाईल व त्यानुसार उमेदवारावर शासनाने जारी केलेल्या “परीक्षांमध्ये होणाऱ्या गैरप्रकारांना प्रतिबंध करण्याबाबतचे अधिनियम-82” यातील तरतुदीनुसार कारवाई करण्यात येईल व दोषी व्यक्ती कमाल एक वर्षाच्या कारावासाच्या आणि/किंवा रुपये एक हजार रकमेच्या दंडाच्या शिक्षेस पात्र होईल.
- (9) सदर प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपल्यानंतर उमेदवाराला ही प्रश्नपुस्तिका स्वतःबरोबर परीक्षाकक्षाबाहेर घेऊन जाण्यास परवानगी आहे. मात्र परीक्षा कक्षाबाहेर जाण्यापूर्वी उमेदवाराने आपल्या उत्तरपत्रिकेचा भाग-1 समवेक्षकाकडे न विसरता परत करणे आवश्यक आहे.

### नमुना प्रश्न

Pick out the correct word to fill in the blank :

Q.No. 201. I congratulate you \_\_\_\_\_ your grand success.

- |         |           |
|---------|-----------|
| (1) for | (2) at    |
| (3) on  | (4) about |

ह्या प्रश्नाचे योग्य उत्तर “(3) on” असे आहे. त्यामुळे या प्रश्नाचे उत्तर “(3)” होईल. यास्तव खालीलप्रमाणे प्रश्न क्र. 201 समोरील उत्तर-क्रमांक “③” हे वर्तुळ पूर्णपणे छायंकित करून दाखविणे आवश्यक आहे.

प्र. क्र. 201. ① ② ● ④

अशा पद्धतीने प्रस्तुत प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाचा तुमचा उत्तरक्रमांक हा तुम्हाला स्वतंत्ररीत्या पुरविलेल्या उत्तरपत्रिकेवरील त्या त्या प्रश्नक्रमांकासमोरील संबंधित वर्तुळ पूर्णपणे छायंकित करून दाखवावा. ह्याकरिता फक्त काळ्या शाईचे बॉलपेन वापरावे, पेन्सिल वा शाईचे पेन वापरू नये.

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