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MPSC

Forest Services

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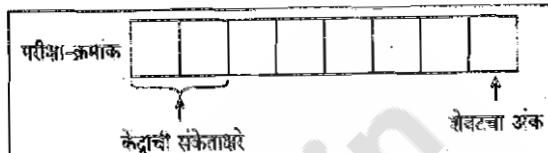




सूचना

(1) सदर प्रश्नपुस्तिकेत 100 अनिवार्य प्रश्न आहेत. उमेदवारांनी प्रश्नांची उत्तर लिहिण्यास सुरुवात करण्यापूर्वी या प्रश्नपुस्तिकेत सर्व प्रश्न आहेत किंवा नाहीत याची खारी कहाने घ्यावी. तसेच अन्य काही दोष आढळल्यास ही प्रश्नपुस्तिका समवेक्षकांकडून लागेच बदलून घ्यावी.

(2) आपला परीक्षा-क्रमांक हा चौकोनांत न विसरता बांलयेनने लिहावा.



(3) वर लापलेला प्रश्नपुस्तिका क्रमांक तुमच्या उत्तरपत्रिकेवर दिशिष्य जाणी उत्तरपत्रिकेवरील सूचनेप्रमाणे न विसरता नव्यून करावा.

(4) या प्रश्नपुस्तिकेतील प्रत्येक प्रश्नाला 4 पर्यायी उत्तर सुचविली असून त्यांना 1, 2, 3 आणि 4 असे क्रमांक दिलेले आहेत. त्या चार उत्तरांपैकी सर्वात योग्य इतराचा क्रमांक उत्तरपत्रिकेवरील सूचनेप्रमाणे तुमच्या उत्तरपत्रिकेवर नव्यून करावा. अशा प्रकारे उत्तरपत्रिकेवर उत्तरक्रमांक नव्यून करताना तो संबंधित प्रश्नक्रमांकासमोर छायांकित करून दर्शविला जाईल याची काळजी घ्यावी. छाकरिता फक्त काळ्या शाईच्ये बांलयेन वापरावे, पेंसिल या शाईच्ये देन वापरन नव्य.

(5) सर्व प्रश्नांना समान गुण आहेत. यासव सर्व प्रश्नांची उत्तर द्यावीत. घाईमुळे चुका होणार नाहीत याची दक्षता घेऊनच शक्य लितक्या वेगाने प्रश्न सोडवावेत. क्रमाने प्रश्न सोडविणे ब्रेयरकर आहे पण घेऊदा प्रश्न कठीण वाटल्यास त्यावर वेळ न घालायिता पुढील प्रश्नांकडे चालावे. अशा प्रकारे शेवटच्या प्रश्नांपर्यंत पोहोचल्यासंतर वेळ शिल्लक राहिल्यास कठीण म्हणून वगळलेल्या प्रश्नांकडे परतणे सोर्स्कर ठेवेल.

(6) उत्तरपत्रिकेत एकदा नव्यून केलेले उत्तर खोडता येणार नाही. नव्यून केलेले उत्तर खोडून नव्याने उत्तर दिल्यास से तपासले जाणार नाही.

(7) प्रस्तुत परीक्षेच्या उत्तरपत्रिकांचे भूत्याकृत करताना उमेदवाराच्या उत्तरपत्रिकेतील योग्य उत्तरांनाच गुण दिले जातील. तसेच “उमेदवाराने व्याप्तिशील व्यव्याप्ती व्यव्याप्तीच्या प्रश्नांची दिलेल्या चार उत्तरांपैकी सर्वात योग्य उत्तरेच उत्तरपत्रिकेत नव्यून करावील. अन्यथा त्यांच्या उत्तरपत्रिकेत योद्दविलेल्या प्रत्येक चार चुकीच्या उत्तरांसाठी एका प्रश्नाचे गुण दर्ज करण्यात येतील”.

ताळीक

हा प्रश्नपत्रिकेसाठी आयोगाने विहित केलेली वेळ संपर्कवैत ही प्रश्नपुस्तिका आयोगाची मानवाचा असून ती परीक्षाकाळात उमेदवारासा परीक्षेसाठी दाखलायास देण्यात येत आहे. ही वेळ संपर्कवैत सदर प्रश्नपुस्तिकेतील काही आशय कोणत्याही स्वरूपात ग्रन्थात यांच्यापांचे कोणत्याही अवृत्तीस पुढविणे, तसेच प्रसिद्ध करणे हा गुडा असून असी कृती करणाऱ्या अवृत्तीचर शासमाने जारी केलेल्या “परीक्षांपैकी होणाऱ्या गैरप्रकारांना प्रतिवंश्य करण्याचावतचा अधिनियम-४२” यातील तसुदीनुसार तरोप्र प्रचसित कायद्याच्या तसुदीनुसार कारवाई करण्यात येईल या दोन्ही घ्यनली कडाल एक वर्षांच्या कारावासाच्या आणि/किंवा रुपये एक हजार रुक्मेच्या दंडाच्या शिक्षेस यात्र होईल.

तसेच हा प्रश्नपत्रिकेसाठी विहित केलेली वेळ संपर्कवैत ही प्रश्नपुस्तिका अनधिकृतपदे बाळगणे हा सुद्धा गुन्हा असून तसेच करणाऱ्यांची आयोगाच्या कर्मांचारीद्वारैकी, तसेच परीक्षेच्या पर्यावरकीवृद्धांपैकी असली तरीही अशा व्यवतीविश्वदू उक्त अधिनियमानुसार कारवाई करण्यात येईल या दोन्ही घ्यनली शिक्षेस यात्र होईल.

कढव्या कामाकाटी जागा / SPACE FOR ROUGH WORK



2. Which of the following is correct?

Hydrological cycle refers to the cyclic movement of water between

- (1) Atmosphere and hydrosphere
- (2) Hydrosphere and lithosphere
- (3) Lithosphere and biosphere
- (4) Atmosphere, hydrosphere, lithosphere and biosphere

3. The process of converting atmospheric nitrogen into ammonium ion by micro-organisms is called

(1) Nitrification	(2) Nitrogen fixation
(3) Metabolism	(4) Fertilization

4. Which of the following has the highest storage in the sediments of the Earth's crust?

(1) Nitrogen	(2) Carbon
(3) Sulphur	(4) Phosphorus

5. Which are the main classes of micronutrient sources ?

- a. Inorganic
- b. Synthetic chelates
- c. Natural organic complexes
- d. Fritted glass products

(1) a and c only

(3) d only

काढ्या कामासाठी जागी / SPACE FOR ROUGH WORK

PTO

6. Match the following :

a. Organic nitrogenous fertilizer	I. Basic slag
b. Phosphatic fertilizer	II. N-Serve (nitrappyrin)
c. Complex fertilizer	III. Nitrophosphate
d. Nitrification inhibitor	IV. Urea

	a	b	c	d
(1)	IV	I	III	II
(2)	II	IV	III	I
(3)	I	III	II	IV
(4)	III	II	IV	I

7. Which of the following sources of potassium is better for yield and quality of potato tubers ?

(1) Diammonium phosphate	(2) Potassium chloride
(3) Nitrophosphate	(4) Potassium sulphate

8. Poorly drained soils are high in organic matter content due to

(1) Less moisture content	(2) Low temperature
(3) Poor aeration	(4) More temperature of aeration

9. Which is/are the common protozoan parasitic disease(s) recorded in wildlife in our country ?

a. Anthrax	b. Canine distemper
c. Trypanosomiasis	d. Trichomoniasis
(1) a only	(2) a and c only
(3) c and d only	(4) d only

कामया करनारी जगा / SPACE FOR ROUGH WORK

10. Match the following :

a. Haemorrhagic septicaemia	I. Mediterranean fever
b. Anthrax	II. Wooden tongue
c. Actinobacillosis	III. Woolsorters disease
d. Brucellosis	IV. Shipping fever

	a	b	c	d
(1)	I	II	III	IV
(2)	II	I	IV	III
(3)	III	IV	I	II
(4)	IV	III	II	I

11. Ergot is a serious fungal disease of _____ crop.

(1) Cotton	(2) Pearl millet
(3) Greengram	(4) Maize

12. Red varieties of onion are generally resistant to onion smudge because they contain

(1) Protocatechuic acid	(2) Hydrocyanic acid
(3) Chitinase enzyme	(4) Hydrolytic enzymes

13. Which of the following insecticides is responsible for rapid insecticide resistance ?

(1) Organochlorines	(2) Organophosphates
(3) Carbamates	(4) Synthetic pyrethroids

14. Which of the following are used to prepare 'chaubatia paste' for fruit trees ?

a. Cupric carbonate
b. Copper oxychloride
c. Red lead
d. Linseed oil

Choose the correct answer from the options given below :

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

15. QuEChERS method is used for

- Fertilizer dose calculation
- Calculation of irrigation water
- Pesticide residues analysis
- None of the above

16. Which of the following fungicides is a melanin biosynthesis inhibitor?

- Carbendazim
- Carproparmid
- Fosetyl-Al
- Sulphur

17. Which weed plant seeds were introduced in India with foodgrains imported from USA?

- Lantana camara*
- Cynodon dactylon*
- Parthenium hysterophorus*
- Tribulus terrestris*

18. *Orobanche ramosa* is parasitic on

- Cabbage
- Chickpea
- Cluster bean
- Cowpea

19. _____ is *not* an example of positive or negative interactions.

- Predation
- Parasitism
- Allelopathy
- Mimicry

20. In a day of 8 hours, how much area can one person cover with a hydraulic knapsack sprayer?

- About 0.4 ha
- About 0.8 ha
- About 1.2 ha
- About 1.0 ha

कठेण्य कामासाठी जागा / SPACE FOR ROUGH WORK

21. Match the following :

a. Extinct species	I. Likely to become endangered in the future
b. Endangered species	II. No living members remain
c. Threatened species	III. Risk of extinction through all or a significant portion of their natural habitats

	a	b	c
(1)	III	I	II
(2)	II	III	I
(3)	I	II	III
(4)	II	I	III

22. Match the following :

	<i>River</i>	<i>Source of pollution</i>
a.	Subarnarekha	I. Industrial waste from Dhanbad and Asansol
b.	Krishna	II. Industrial waste from Jamshedpur
c.	Damodar	III. Industrial and domestic waste from Ahmedabad
d.	Sabarmati	IV. Waste from sugar industry

	a	b	c	d
(1)	III	I	II	IV
(2)	II	IV	III	I
(3)	II	IV	I	III
(4)	IV	II	I	III

23. Land degradation and soil pollution are caused due to

a. Over cultivation	
b. Over irrigation	
c. Over use of fertilizers	
d. Over use of pesticides	
(1) a and b only	(2) c and d only
(3) b, c and d only	(4) a, b, c and d

24. Which one of the following statements is correct ?

The Wildlife Protection Act, 1972 aims at

- (1) The preservation and protection of environment through the protection of tigers as their survival of life is linked to the health of the ecosystem.
- (2) The preservation and protection of environment through the protection of biodiversity for the conservation of wildlife habitat.
- (3) The preservation and protection of herbivorous, carnivorous and omnivorous through conservation policy.
- (4) The preservation and protection of environment and its endangered species which are at risk of extinction.

25. Which agencies are involved in exploration of minerals ?

- a. ONGC, MECL, GSI
- b. NMDC, MIDC, IBM
- c. IBM, GSI, CMPDI
- d. NALCO, HCL, MECL

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

26. The toxicants in fertilizers and pesticides mainly pollute the

- (1) Soil
- (2) Water
- (3) Soil and water
- (4) Air

27. Habitat fragmentation in Bannerghatta National Park has occurred due to

- (1) Quarrying in the region
- (2) Recreation activity
- (3) Thermal power plant
- (4) Newly developed residential area

28. Tadoba-Andhari Tiger Reserve in Chandrapur District is well-known for its wildlife and good quality forest. There are shallow deposits of high grade coal in the bufferzone area. Which method would be applied for extraction of this coal although it will make loss of forest cover and upper strata of soil ?

Choose the correct answer from the options given below :

- (1) Shaft mining
- (2) Open-cast mining
- (3) Drift mining
- (4) Placer mining

कच्चा कामाची जागा / SPACE FOR ROUGH WORK

काल्पनिक कामासाठी जागा / SPACE FOR ROUGH WORK

PTO

35. Which of the following zoonotic diseases is/are widely found in wild animals in India ?

- a. Ebola haemorrhagic fever
- b. Tuberculosis
- c. Glanders
- d. Tularemia

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

34. Match the following :

<i>Sanctuary/Park</i>		<i>State</i>	
a.	Nanda Devi	I.	Arunachal Pradesh
b.	Dibang	II.	Gujarat
c.	Kibber	III.	Uttarakhand
d.	Gir	IV.	Himachal Pradesh
	a	b	c
(1)	IV	III	I
(2)	IV	II	I
(3)	III	I	IV
(4)	III	IV	I
		d	
		II	
		III	
		II	

37. The Indian cattle breeds which are at risk include

38. Indian cattle (humped) belongs to the species

(1) *Bos taurus* (2) *Bos indicus*
(3) *Bos bubalis* (4) *Bos gaurus*

कठव्या अभियांत्री जागी / SPACE FOR ROUGH WORK

39. Which of the following grasses is called as 'King of the Desert' ?

- Anjan grass (*Cenchrus ciliaris*)
- Dhaman grass (*Cenchrus setigerus*)
- Sewan grass (*Lasiurus scindicus*)
- Siratro (*Macroptilium atropurpureum*)

- a and b only
- c and d only
- All of the above
- None of the above

40. For intensive fodder production, one of the following is the correct sequence of crops recommended for the North Zone :

- Bajra + Guar + Annual lucerne
- Maize + Cowpea – Sorghum + Cowpea – Berseem + Mustard
- Hybrid napier or Guinea grass or Setaria interplanted with Lucerne
- Sudan grass + Cowpea – MP Chari + Cowpea

41. Which of the following medicinal plants is indigenous to India and known as "King of Bitter" in England ?

- Isabgol (*Plantago ovata*)
- Kalmegh (*Andrographis paniculata*)
- Cowhage (*Mucuna pruriens*)
- Aonla (*Phyllanthus emblica*)

42. Which of the following trees is used to produce medicine in malaria disease ?

- Larch
- Fir
- Elm
- Cinchona

43. What is the botanical name of Chaulmogra tree which is common in the Western Ghats, whose seeds are expressed to get the oil which is considered a specific for leprosy ?

- Cinnamomum zeylanicum*
- Hydnocarpus kurzii*
- Carumearvi* species
- Elettaria cardamomum*

44. Brazolin dye is obtained from the wood of

- Pterocarpus santalinus*
- Artocarpus heterophyllus*
- Toona ciliata*
- Caesalpinia sappan*

कठव्या कामासाठी जाण / SPACE FOR ROUGH WORK

P.T.O.

45. Who is called the Father of Tissue Culture ?

- (1) Haberlandt
- (2) Mendel
- (3) Hopkins
- (4) Murashige

46. The ability of regenerating an entire plant from a single cell is known as

- (1) Propagancy
- (2) Progeny
- (3) Totipotency
- (4) Deoxy

47. Coconut water is well-known to contain _____, a plant hormone which induces cell division.

- (1) Totipote
- (2) Cytokinin
- (3) Callus
- (4) Epistasis

48. The number as well as size and shape of chromosomes are termed as

- (1) Somatic cell
- (2) Diploid
- (3) Sussex
- (4) Karyotype

49. The wildlife sanctuary in Andhra Pradesh which is a breeding place for pelican and other visiting marine birds is

- (1) Point Calimere Wildlife Sanctuary
- (2) Ranganthittu Bird Sanctuary
- (3) Kolleru Bird Sanctuary
- (4) Chilika Lake

50. The first biosphere reserve of the world was established in the year

- (1) 1979
- (2) 1991
- (3) 1986
- (4) 1988

काल्पनिक कार्यालयी जागा / SPACE FOR ROUGH WORK

51. Match the following :

	<i>Column I</i> (Mangroves)					<i>Column II</i> (State)	
	a.	b.	c.	d.		I.	Tamil Nadu
	II.	Coondapur	III.	Coringa	II.	Odisha	
	a.	b.	c.	d.	III.	Andhra Pradesh	
	Point Calimere				IV.	Karnataka	
	a	b	c	d			
(1)	II	IV	III	I			
(2)	II	IV	I	III			
(3)	IV	II	III	I			
(4)	I	III	II	IV			

52. Gir Forest of Gujarat is unique as the only surviving habitat of the

(1) Asian Lion	(2) Tiger
(3) Leopard	(4) Rhinos

53. _____ variety of *Leucaena leucocephala* has been planted on large scale for better forage and wood production in tropics.

(1) Shorter K8	(2) Giant K8
(3) Shorter K9	(4) Giant K9

54. A forest management strategy under which the forest department and the village community enter into an agreement to jointly protect and manage forest lands to share responsibilities and benefits is

(1) Joint Forest Management	(2) Agroforestry
(3) Farm Forestry	(4) Social Forestry

55. In agroforestry, sometimes one plant makes the growth of another plant difficult by releasing _____ into soil.

(1) Pheromones	(2) Acids
(3) Alleles	(4) Allelochemicals

कठव्या कापासाठी जाग / SPACE FOR ROUGH WORK

61. The Headquarters of the Zoological Survey of India (ZSI) is located at

(1) Delhi (2) Mumbai
(3) Bangalore (4) Kolkata

62. The United Nations Conference on Environment and Development (UNCED) is also known as

(1) The Earth Summit (2) European Forestry Commission
(3) Stockholm Convention (4) The Vienna Convention

63. Which organization publishes the red list, compiling information from a network of conservation organizations to rate which species are most endangered ?

(1) The International Union for Conservation of Nature
(2) The International Institute for Sustainable Development
(3) The United Nations Environment Programme
(4) The International Institute of Tropical Forestry

64. World Wide Fund for Nature (WWF) was conceived on 29 April, 1961 under the name World Wildlife Fund and its office was opened on 11 September, 1961 in

(1) Yokohama, Japan (2) Morges, Switzerland
(3) Manitoba, Canada (4) Rome, Italy

65. A high-oblique aerial photograph is taken with the camera inclined at which of the following angles ?

(1) 30° to the vertical axis (2) 40° to the vertical axis
(3) 50° to the vertical axis (4) 60° to the vertical axis

66. John Snow, a scientist, prepared a thematic map of cholera's spread the first time in which country ?

(1) Japan (2) India
(3) England (4) USA

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

67. When was India's GSAT-17 satellite launched?

(1) March 29, 2017 (2) April 29, 2017
(3) June 29, 2017 (4) August 29, 2017

Q8. In which of the following hurricane cyclone was disaster management done the first time with the help of GIS in USA ?

(1) Ana (2003) (2) Katrina (2005)
(3) Maria (2007) (4) Irma (2017)

69. Match the following specific mammals, birds and flowers with the States recommended for conservation (ISCA, 1986) :

a.	Four-horned antelope, Grey pelican and Jasmine (<i>J. pubescens</i>)	I. Maharashtra
b.	Gaur (<i>Bos gaurus</i>), Grey Jungle fowl (<i>Gallus sonneratii</i>) and Jarul (<i>Lagerstroemia speciosa</i>)	II. Gujarat
c.	Barasingha (<i>Cervus duvauceli</i>) Paradise Flycatcher and Sterculia (<i>Sterculia colorata</i>)	III. Madhya Pradesh
d.	Asiatic lion, Flamingo and Amaltas (<i>Cassia fistula</i>)	IV. Andhra Pradesh

	a	b	c	d
(1)	IV	I	III	II
(2)	I	II	IV	III
(3)	II	III	I	IV
(4)	III	IV	II	I

खाली स्थान ही आप / SPACE FOR ROUGH WORK

70. Which of the following are the reasons for depletion of indigenous domestic animals diversity?

71. Match the following :

a.	The scientific study of the geographic distribution of plants and animals is called	I.	Endemic species
b.	Species with very restricted distribution over relatively small ranges is called	II.	Food chain
c.	The study of interaction between the living species and the environment is called	III.	Biogeography
d.	The sequence of organisms which feed on one another for their survival is known as	IV.	Ecology

a **b** **c** **d**

(1) IV III II I
 (2) I II IV III
 (3) III I IV II
 (4) II IV III I

कच्च्या कामासाठी जाग / SPACE FOR ROUGH WORK

PTO

72. As per the Convention on Biological Diversity (CBD), biological diversity includes

- a. Diversity within species
- b. Diversity between species
- c. Diversity of ecosystems

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

73. The use of multiline varieties was first suggested in 1952 by

(1) Briggs (2) Borlaug
(3) Jensen (4) Frey

74. Which selection method does *not* consider any information about the performance of ancestors, siblings, offsprings or other relatives?

- (1) Mass selection
- (2) Family selection
- (3) Sib selection
- (4) Progeny testing

75. As per 2001 Census, out of the total population, tribal population in India was

(1) 7.2%
(2) 8.2%
(3) 9.2%
(4) 10.2%

76. The number of sets of chromosomes a tree has and can affect the variability pattern within and among species is termed as

(1) Breeding (2) Ploidy
(3) Hybrid (4) Phenotype

काम्हा काम्हाती जागा / SPACE FOR ROUGH WORK

77. The first paraboloidal type solar cooker in India was developed by

- Centre for Materials for Electronics Technology
- Council of Scientific and Industrial Research
- Defense Research and Development Organization
- National Physical Laboratory, New Delhi

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

78. At every point in an electric field, a particle with charge q possesses a certain electrostatic potential energy. This work done, increases its potential energy by an amount equal to potential energy difference between any two points such as R and P. Thus potential energy difference is given by

$$\text{+}_Q \text{P} \leftarrow \text{+}_q \rightarrow \text{R}$$

(1) $\Delta U = U_P = U_R = W_{R-P}$ (2) $\Delta U = U_P - U_R = W_{RP}$
(3) $\Delta U = U_P + U_R = W_{RP}$ (4) $\Delta U = U_P * U_R = W_{RP}$

79. The study of the size of the pupil as a function of attitude is called

(1) Photometry (2) Geometry
(3) Biometrics (4) Pupilometrics

80. Carbon has the electron configuration $2S^1, 2S^2, 2P^2$. Hybridization of the electron orbits of the carbon atom gives rise to the occurrence of the familiar allotropes, diamond and graphite. The rigidity of bonds between the carbon atoms makes diamond the hardest material in existence. It has a high melting temperature of _____ and a large latent heat of melting of _____ at a pressure of 48 kbar.

(1) $5800^{\circ}\text{C}, 205 \text{ kJ mol}^{-1}$ (2) $3800^{\circ}\text{C}, 105 \text{ kJ mol}^{-1}$
(3) $3800^{\circ}\text{C}, 205 \text{ kJ mol}^{-1}$ (4) $5800^{\circ}\text{C}, 105 \text{ kJ mol}^{-1}$

कठोर कामातारी जगा / SPACE FOR ROUGH WORK

85. For Biofertilizers which statement/s is/are correct ?

- a. It is a low cost and easy technique.
- b. It requires skilled labour.
- c. It is free from pollution hazards.
- d. It increases physicochemical properties of soil.

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

86. Vermiwash contains

- a. Antifungal substances
- b. Antibacterial substances
- c. Chemical substances
- d. Growth promoting substances

Which of the options given above are correct ?

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

87. Which of the following is the largest family amongst angiosperms ?

- (1) Gramineae
- (2) Orchidaceae
- (3) Asteraceae
- (4) Annonaceae

88. Fungi growing on animal-dung are known as

- (1) Psychrophilic fungi
- (2) Coprophilous fungi
- (3) Phyllosphere fungi
- (4) Alpine fungi

89. Conchology is the study of

- (1) Mollusca
- (2) Foot of Mollusca
- (3) Shell of Mollusca
- (4) Behaviour of Mollusca

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

P.T.O.

90. Eumpongia commonly called as bath sponge belongs to the class
(1) Calcarea (2) Hexactinellida
(3) Demospongiae (4) None of the above

91. *Pipa americana*, an aquatic frog from South America belongs to the order
(1) Urodela (2) Anura
(3) Apoda (4) None of the above

92. Below are names of cells along with the group to which they exclusively belong.
Which one is *incorrect*?
(1) Nematocyst - Cnidaria
(2) Colloblast - Ctenophora
(3) Trichocyst - Ciliata
(4) Choanocyte - Perifera

93. Match the following :
a. Eluviation I. In terms of water content of soil
b. Dolomite II. Deposition of soil material in lower layers
c. Illuviation III. Removal of salts
d. Atterberg limits IV. Chief source of Mg

a b c d
(1) I II III IV
(2) III II I IV
(3) III IV II I
(4) II IV III I

94. The physical or mechanical process of weathering is designated as _____ of rocks and minerals.
(1) Decomposition (2) Disintegration
(3) Chemical weathering (4) None of the above

अन्तर्गत काम का स्थानीय जाल / SPACE FOR ROUGH WORK

95. The pedogenic process that removes silica resulting in accumulation of sesquioxides (Fe and Al) in warm humid regions is known as
(1) Podzolization (2) Solodization
(3) Saltation (4) Laterization

96. When decay of a plant material occurs, which of the following changes occurs in the plant material ?
(1) The C : N ratio of the plant material remains constant
(2) The C : N ratio of the plant material increases
(3) The C : N ratio of the plant material decreases
(4) None of the above

97. In India, which type of the following water harvesting techniques is/are practised ?
a. Inter-row water harvesting
b. Micro-plot water harvesting
c. Water harvesting in farm ponds and reservoirs
(1) a and c only (2) b only
(3) c only (4) a, b and c

98. _____ is practised in steep hill slopes to reduce the effect of erosion.
(1) Bench terracing (2) Graded bunding
(3) Contour bunding (4) All of the above

99. _____ is the capacity of an agent causing erosion.
(1) Erosivity (2) Erodibility
(3) Drainability (4) Permeability

100. Contour bunding practice is adopted to control what type of soil erosion in low rainfall areas ?
(1) Accelerated soil erosion (2) Geological soil erosion
(3) Glacial soil erosion (4) Functional soil erosion

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK

सुचना – (पृष्ठ 1 वर्तन पढे....)

(8) प्रश्नपुस्तिकेवद्ये विहित केलेल्या विशिष्ट जागीव काढे काम (एक वर्क) असावे. प्रश्नपुस्तिकेवद्यतिरिक्त उत्तरपत्रिकेवर वा इतर कागदावर कच्चे काम केल्यासाठे ते कॉपी करण्याच्या उद्देशाने कैरो आहे, असे मानले जाईल व त्यासुसार उमेदवारावर शासनाने जारी केलेल्या “परीक्षांमध्ये होणाऱ्या गैप्पाकारांना प्रतिबंध करण्याबाबत वे अधिनियम-३२” यातील वार्तुलेखावार कारणार्ह करण्यात रेईल व दोषी व्यक्ती कमात एक त्वार्त्या कारवाराऱ्या आणि/किंवा रुपदे एक हजार रुपीच्या दृढाच्या शिर्खेस पाव रोईल.

(9) सर्व प्रश्नपत्रिकेलाई आव्योगाने विहित केलेली वेळ संभल्यानंतर उमेदवाराता ही प्रश्नपुस्तिका स्वतःबरोबर पारीक्षाकाढावाही धैऊन जाण्यास परवानगी आहे. याचे परीक्षा कक्षावाहीर जाण्यापूर्वी उमेदवाराने शासनाल्या उत्तरपत्रिकेला आणि-१ संप्रदेशकाकडे न विसरता परत करणे आवश्यक आहे.

असुला प्रदूष

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) above

हा प्रश्नाचे योग उत्तर “(3) on” असे आहे. त्यापुढे या प्रश्नाचे उत्तर “(3)” होईल. धास्तव खालीलप्रमाणे प्रथम क्र. २०१ सधरील उत्तरक्रमांक “(3)” हे वर्तुल पूर्णपणे छायाचिना करून दाखविणे आवश्यक आहे.

實驗 201. ① ② ③ ④

अशा फूलीने शुद्ध शुद्ध स्त्रीकोरे

जस्ता भूताल ब्रह्मुता ब्रह्ममुख्यालाल व्रतेक व्रताचा उभयो उत्तरेनाल हा उच्छ्वासा व्रतावरात्मा उत्तरेनाल उत्तरप्रतिक्रियाल त्या त्या प्रसङ्गमांकासमोरील संबंधित वृत्त भूर्जणे छायाकृत करून दाखावावा. हातकरिता यसक्ष काळज्ञा शार्दूले झोलावेन दायरादे, येन्नित त्या शार्दूले गेन दायरक न्हो.

कच्च्या कामासाठी जागा / SPACE FOR ROUGH WORK