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SECTION - A

i) General Awareness

1. Which of the following Articles of the Indian Constitution grants special provision to the north eastern states of India?

- (A) Article 370
- (B) Article 371
- (C) Article 333
- (D) None of the above

2. National Girl Child Day is celebrated every year on

- (A) March 22nd
- (B) January 24th
- (C) August 3rd
- (D) None of the above

3. Which of the following river is a tributary of Cauvery?

- (A) Manas river
- (B) Arkavathi river
- (C) Lohit river
- (D) None of the above

4. The Man Booker International Prize, 2019 awarded to which of the following Novel?

- (A) Seven Killings
- (B) Celestial Bodies
- (C) Milkman
- (D) None of the above

5. To whom among the following the American Institute of Aeronautics and Astronautics conferred the Missile Systems Award 2019?

- (A) Kiran Kumar
- (B) G. Satheesh Reddy
- (C) Kailasavadivoo Sivan
- (D) None of the above



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6. Coco Islands belong to which of the following nations?

- (A) India
- (B) Myanmar
- (C) Indonesia
- (D) All the above

7. World Ozone Day is celebrated every year on

- (A) September 16th
- (B) June 5th
- (C) March 3rd
- (D) None of the above

8. Tansen Samman is given by

- (A) Uttar Pradesh
- (B) Gujarat
- (C) Madhya Pradesh
- (D) None of the above

9. She was British and supporter of Indian self-rule. Later she joined the Indian National Congress and in 1916 she launched the All India Home Rule League. The above said statements describes who among the following freedom fighters of India?

- (A) Madam Cama
- (B) Annie Besant
- (C) Sarojini Naidu
- (D) None of the above

10. What was the Theme of the World Environment Day 2019?

- (A) Air pollution
- (B) Light pollution
- (C) Soil pollution
- (D) None of the above

11. Washing soda is also known as

- (A) Sodium carbonate
- (B) Sodium bisulphite



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- (C) Sodium bicarbonate
- (D) None of the above

12. India post joined with which of the following tech giant to digitalize 1.5 lakh Post Offices and create world's biggest e-postal network?

- (A) TCS
- (B) Microsoft
- (C) Infosys
- (D) None of the above

13. What is the metamorphic form of Limestone?

- (A) Marble
- (B) Gypsum
- (C) Gold
- (D) None of the above

14. What was the theme of World Wetland Day 2019?

- (A) Wetlands and climate change
- (B) Wetlands and wild animals
- (C) Wetlands for the avian fauna
- (D) None of the above

15. Consider the following pairs:

1. Krishna Wildlife Sanctuary - Karnataka

Wayanad Wildlife Sanctuary - Tamil Nadu **Which of the above pairs are correctly matched?**

- (A) 1 only
- (B) 2 only
- (C) Both 1 and 2
- (D) Neither 1 nor 2

16. Which of the following Indo-Tibet main trade routes are passes through Chumbi valley?

- (A) Jelep La and Nathu La Pass
- (B) Goram Ghat and Haldi Ghat Pass
- (C) Bhor Ghat and Chorla Ghat Pass



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(D) None of the above

17. Who among the following Indian women freedom fighters popularly known as Grand Old Lady?

- (A) Sucheta Kriplani
- (B) Lakshmi Sahgal
- (C) Aruna Asaf Ali
- (D) None of the above

18. The Sardar Sarovar Dam built across which of the following rivers?

- (A) Ganga
- (B) Chambal
- (C) Narmada
- (D) None of the above

19. Which one of the following states Gulf of Khambhat is situated?

- (A) Gujarat
- (B) Andhra Pradesh
- (C) West Bengal
- (D) None of the above

20. Which of the following organization releases the state of World Population Report?

- (A) UNFPA
- (B) ILO
- (C) WTO
- (D) None of the above

ii) General Intelligence and Reasoning Ability

21. Prashant Arora has three children - Sangeeta, Vimal and Ashish. Ashish married Monika, the eldest daughter of Mr. and Mrs. Roy. The Roys married their youngest daughter to the eldest son of Mr. and Mrs. Sharma and they had two children named Amit and Shashi. The Roys have two more children, Roshan and Vandana, both elder to Veena. Sameer and Ajay are sons of Ashish and Monika. Rashmi is the daughter of Amit. What is the surname of Sameer?

- (A) Roy
- (B) Sharma
- (C) Arora



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(D) Cannot be determined

22. Statements: Some fabrics are silks. Some silks are cottons.

Conclusions: I. At least some cottons are silks. II. At least some fabrics are cottons.

(A) Neither conclusion I nor II is true

(B) Only conclusion II is true

(C) Only conclusion I is true

(D) Both conclusions I and II are true

23. i. A, B, C, D, E, F and G are sitting around a circle and are facing the centre. ii. G is second to left of C, who is to the immediate left of F. iii. A is third to the left of E. iv. B is between D and E. Which of the following is false?

(A) A is fourth to the right of E

(B) G is to the immediate right of D

(C) F is third to the right of D

(D) B is to the immediate left of D

24. Radha moves towards South-East a distance of 7 km, then she moves towards West and travels a distance of 14 m. From here, she moves towards North-West a distance of 7 m and finally she moves a distance of 4 m towards East and stood at that point. How far is the starting point from where she stood?

(A) 3 m

(B) 4 m

(C) 10 m

(D) 11 m

+4

25. Five plays A, B, C, D and E are to be staged from Monday to Friday of a week. On each day, only one play will be staged. D or E should not be either the first or last to be staged. E should be immediately followed by C. B should be staged immediately after D. One play is staged between A and B. Then, which play was staged on Wednesday?

(A) A

(B) B

(C) Either B or C

(D) Cannot be determined

26. Choose the correct alternative from the given ones: AYD, BVF, DRH, ?, KGL

- (A) FMI
- (B) GMJ
- (C) GLJ
- (D) HLK

27. Deepa moved a distance of 75 meters towards the North. She then turned to the left and walking for about 25 meters, turned left again and walked 80 meters. Finally, she turned to the right at an angle of 45° . In which direction was she moving finally?

- (A) North-East
- (B) North-West
- (C) South - East
- (D) South-West

28. Anita, Mahima, Rajan, Lata and Deepti are five cousins. Anita is twice as old as Mahima. Rajan is half the age of Mahima. Anita is half the age of Deepti and Rajan is twice the age of Lata. Then, who is the youngest?

- (A) Deepti
- (B) Rajan
- (C) Lata
- (D) Anita

29. In a certain language, 'sun shines brightly' is written as 'ba lo sul', 'houses are brightly lit' as 'kado ula ari ba' and 'light comes from sun' as 'dopi kup lo nro'. What code words are written for 'sun' and 'brightly'?

- (A) ba, sul
- (B) sul, lo
- (C) lo, ba
- (D) ba, lo

30. What will be the next term in the series? 21, 7, 111, 37, 303, 101, 4275, _____

- (A) 12825
- (B) 4475
- (C) 1425



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(D) 725

31. F J M P O W R N B E Y C K A V L D G X U H Q I S Z T. Which of the following pairs of letters has as many letters between them in the above arrangement as there are between them in the English alphabet?

- (A) AI
- (B) EL
- (C) LS
- (D) MO

32. Choose the Venn diagram which best illustrates the three given classes: Dog, Animal, Pet.

- (A)
- (B)
- (C)
- (D)

33. If the second day of a month is Friday, which of the following would be the last day of the next month which has 31 days?

- (A) Sunday
- (B) Monday
- (C) Tuesday
- (D) Data inadequate

34. Six students A, B, C, D, E and F are sitting in the field. A and B are from Nehru House while the rest belong to Gandhi House. D and F are tall while the others are short. A, C and D are wearing glasses while the others are not. Which two students, who are not wearing glasses are short?

- (A) A and F
- (B) C and E
- (C) B and E
- (D) E and F

35. Find the odd word from the given alternatives.

- (A) Gallon
- (B) Ton
- (C) Quintal



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(D) Kilogram

36. Pointing to a woman, Naman said, "She is the daughter of the only child of my grandmother". How is the woman related to Naman?

- (A) Sister
- (B) Niece
- (C) Cousin
- (D) Data inadequate

37. Two bus tickets from city A to B and three tickets from city A to C cost ₹ 77 but three tickets from city A to B and two tickets from city A to C cost ₹ 73. What are the fares for cities B and C from A?

- (A) ₹ 4, ₹ 23
- (B) ₹ 13, ₹ 17
- (C) ₹ 15, ₹ 14
- (D) ₹ 17, ₹ 13

38. Select the related alternative from the given: Spring : Summer ::

- (A) Sunday : Monday
- (B) Thursday : Wednesday
- (C) Tuesday : Friday
- (D) Friday : Monday

39. Aman is 16th from the left end in a row of boys and Vivek is 18th from the right end. Gagan is 11th from Aman towards the right and 3rd from Vivek towards the right end. How many boys are there in the row?

- (A) 40
- (B) 41
- (C) 42
- (D) 48

40. If 'GLOSSORY' is coded as 97533562 and 'GEOGRAPHY' is coded as 915968402, then 'GEOLOGY' can be coded as

- (A) 9156921
- (B) 9157592
- (C) 9057592
- (D) 9157912

iii) Arithmetical and Numerical Ability

41. Choose the missing term: B, D, F, I, L, P, ?

- (A) R
- (B) S
- (C) T
- (D) U

42. The average of first nine prime numbers is

- (A) 9
- (B) 11
- (C) 11

- (D) 11

9

1

9

2

43. Simplify:

0.044

$$0.2 \times 0.2 + 0.2 \times 0.02$$

- (A) 0.004
- (B) 0.4
- (C) 1
- (D) 2

44. Choose the number which is different from the group:

- (A) 8

- (B) 28
- (C) 64
- (D) 125

45. The smallest value of n , for which $2n + 1$ is not a prime number, is

- (A) 3
- (B) 4
- (C) 5
- (D) None of these

46. Find the missing character:

18	24	32
12	14	16
3	?	4
72	112	128

- (A) 2
- (B) 3
- (C) 4
- (D) 5

47. If α means +, β means -, γ means \times , θ means \div then $30 \theta 10 \gamma 5 \alpha$

$10 \beta 20$ is

- (A) 3
- (B) 10
- (C) 5
- (D) 15

48. The difference of 1

16

3

and its reciprocal is equal to

- (A) 1

8

1

(B)

3

4

(C)

16

15

(D) None of these

49. Select the correct set of symbols which will fit in the given equation:

$$50 _ 3 _ 5 = 20$$

- (A) \times, \times, \times
- (B) $-, +, \times$
- (C) $\div, +, \times$
- (D) $+, -, \times$

50. If the sum of two numbers is 33 and their difference is 15, the smaller number is

- (A) 9
- (B) 10
- (C) 12
- (D) 19

51. If $1.5x = 0.04y$ then the value of

$$y+x$$

$$y-x$$

is

(A)

77

730

(B)

77

73

(C)

770

73

(D) None of these

52. Choose the missing term: 3F, 6G, 11I, 18L, ?

(A) 21C

(B) 25N

(C) 25P

(D) 27P

53. Find the number which is nearest to 457 and is exactly divisible by 11.

(A) 450

(B) 451

(C) 460

(D) 462

54. If $y = 5$ then what is the value of $10y$

y

3

$-y$

2

?

(A) 50

2

(B) 100

(C) 200

5

(D) 500

55. 2, A, 9, B, 6, C, 13, D, ?

(A) 9

(B) 12

(C) 15

(D) 18

56. Reena is twice as old as Sunita. Three years ago, she was three times as old as Sunita. How old is Reena now?

(A) 6 years

- (B) 7 years
- (C) 8 years
- (D) 12 years

57. Sam ranked ninth from the top and thirty-eighth from the bottom in a class. How many students are there in the class?

- (A) 45
- (B) 46
- (C) 47
- (D) 48

58. Complete the series: 19, 23, 26, 30, 33, ?

- (A) 31
- (B) 35
- (C) 37
- (D) 39

59. Evaluate

$$41 -$$

$$21 +$$

$$19 -$$

$$9$$

- (A) 3

- (B) 5
- (C) 6
- (D) 5.4

60. The greatest number of four digits which is divisible by 15, 25, 40 and 75 is

- (A) 9000
- (B) 9400
- (C) 9600
- (D) 9800

iv) Hindi Language and Comprehension

61. 'आजीवन' शब्द किस समास का उदाहरण है?

- (A) अव्ययीभाव
- (B) तत्पुरुष
- (C) कर्मधारय
- (D) इनमें से कोई नहीं

62. 'आहत' शब्द का विलोम है

- (A) अनहोता
- (B) अनहित
- (C) अनाहत
- (D) इनमें से कोई नहीं

63. समास जिसमें कोई पद प्रधान नहीं होता है, उसे _____ समास कहते हैं।

- (A) बहुब्रीहि
- (B) द्विगु
- (C) द्वन्द्व
- (D) कर्मधारय

64. 'कान देना' मुहावरे का अर्थ है

- (A) ध्यान से सुनना
- (B) मार देना
- (C) संतोष होना
- (D) आराम करना

65. कारण कारक का विभक्ति चिन्ह है

- (A) को
- (B) से
- (C) ने
- (D) में

66. 'काया पलट होना' लोकोक्ति का अर्थ है

- (A) बिल्कुल बदल जाना
- (B) बहुत बड़ा अंतर
- (C) दोहरा लाभ
- (D) बुद्धि ताकत से बड़ी होती है

67. 'सुबह हुई और चिडिया उड गई'। यह किस तरह का वाक्य है?

- (A) साधारण वाक्य
- (B) मिश्रित वाक्य
- (C) संयुक्त वाक्य
- (D) इनमें से कोई नहीं

68. 'ध्यानपूर्वक' शब्द है

- (A) परिमाणवाचक क्रिया विशेषण
- (B) कालवाचक क्रिया विशेषण
- (C) स्थानवाचक क्रिया विशेषण
- (D) रीतिवाचक क्रिया विशेषण

69. 'अंगुली' का तद्भव रूप कौनसा है?

- (A) उंगली
- (B) अंगुटी
- (C) अगुल
- (D) इनमें से कोई नहीं

70. शरणागत कौन-सा समास है?

- (A) द्विगु समास
- (B) द्वन्द्व समास
- (C) तत्पुरुष समास
- (D) अव्ययीभाव समास

71. संज्ञा या सर्वनाम के जिस रूप का सीधा संबंध क्रिया से होता है, उसे _____ कहते हैं।

- (A) कारक
- (B) वाच्य
- (C) धातु
- (D) इनमें से कोई नहीं

72. इनमें से कौनसा शब्द 'कुसुम' का पर्यायवाची नहीं है?

- (A) कमल
- (B) फूल
- (C) प्रसून
- (D) पुष्प

73. नीरोग का संधि विच्छेद है

- (A) नि: + रोग
- (B) नी: + रोग
- (C) नीर + रोग
- (D) निर + रोग

74. रचना के आधार पर क्रिया के कितने भेद हैं?

- (A) 2
- (B) 3
- (C) 4
- (D) इनमें से कोई नहीं

75. ताला शब्द कौन-सा लिंग है?

- (A) स्त्रीलिंग
- (B) पुल्लिंग
- (C) उभयलिंग
- (D) इनमें से कोई नहीं

76. इनमें से कौनसा शब्द द्विगु समास का उदाहरण नहीं है?

- (A) पंचवटी
- (B) नवरत्न
- (C) नवग्रह
- (D) रात-दिन

77. जोड़कर लिखिए:

1. तत्पुरुष - i. हस्तलिखित
2. द्विगु - iii. चौराहा
3. द्वंद्व - iv. आशा-निराशा

अव्ययीभाव - ii. भरपेट

विकल्प:

- (A) 1-i, 2-iii, 3-ii, 4-iv
- (B) 1-i, 2-iii, 3-iv, 4-ii
- (C) 1-iii, 2-i, 3-iv, 4-ii
- (D) 1-iii, 2-i, 3-ii, 4-iv

78. सार्थक शब्दों के कितने भेद होते हैं?

- (A) दो
- (B) तीन
- (C) चार
- (D) पाँच

79. 'क्षणिक' शब्द का विलोम है

- (A) नश्वर
- (B) सनातन
- (C) अमर
- (D) शाश्वत

80. निम्नलिखित में कौन-सा शब्द तत्सम है?

- (A) आँख
- (B) अग्र
- (C) आग
- (D) आज

v) English Language and Comprehension

81. Read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence: I think (A) / Raveena is the (B) / most talented (C) / of the two (D).

- (A) I think



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- (B) Raveena is the
- (C) most talented
- (D) of the two

82. The whole town (A) / turned enthusiastically out (B) / to welcome the cricket team (C) / when it came back with the cup (D).

- (A) The whole town
- (B) turned enthusiastically out
- (C) to welcome the cricket team
- (D) when it came back with the cup

83. They decided to part as (A) / they thought that any (B) / farther discussion on the (C) / issue would be pointless (D).

- (A) They decided to part as
- (B) they thought that any
- (C) farther discussion on the
- (D) issue would be pointless

84. Fill in the blanks with suitable articles: It was truly _____ memorable party.

- (A) the
- (B) a
- (C) an
- (D) not needed

85. _____ sloth is too slow to run a race.

- (A) A
- (B) An
- (C) The
- (D) No article required

86. Add suitable question tags: He has a huge fan following, _____?

- (A) haven't he
- (B) hasn't he
- (C) doesn't he
- (D) isn't he

87. Myna ran her bicycle over a colony of ants, _____?



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- (A) has she
- (B) did she
- (C) didn't she
- (D) doesn't she

88. Fill in the blanks with the appropriate forms of the verb given in brackets: Neither you nor your friend _____ the homework. (form of 'have')

- (A) have
- (B) has
- (C) have been
- (D) none of these

89. The cost of the apples _____ high. (form of 'be')

- (A) are
- (B) were
- (C) is
- (D) not required

90. Choose the correct synonym of the word underlined: A dozen gentlemen were engaged in a warm dispute.

- (A) discussion
- (B) speech
- (C) conversation
- (D) argument

91. The Dutch were considered to be industrious.

- (A) diligent
- (B) effortless
- (C) considerate
- (D) beneficial

92. Identify the form of each sentence: Being innocent, he never thought of running away.

- (A) Complex sentence
- (B) Simple sentence
- (C) Compound sentence



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(D) Exclamatory sentence

93. She was so poor that she could not educate her son.

- (A) Compound sentence
- (B) Imperative sentence
- (C) Complex sentence
- (D) Simple sentence

94. 'May God bless you!'

- (A) Complex sentence
- (B) Declarative sentence
- (C) Interrogative sentence
- (D) Imperative sentence

95. Fill in the blanks using the correct tenses of the verbs given in brackets: I _____ my friend last week. (meet)

- (A) had met
- (B) meet
- (C) have met
- (D) met

96. You have _____ to me. (lie)

- (A) lied
- (B) laid
- (C) lying
- (D) lain

97. Fill in the blanks with appropriate prepositions: People will have to walk _____ the stream to reach the highway.

- (A) among
- (B) across
- (C) at
- (D) for

98. I found myself seated _____ illustrious ladies at the banquet.

- (A) between



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- (B) among
- (C) into
- (D) by

99. Fill in the blanks with the appropriate antonym of the words underlined: The criminal received the judgement <u>bitterly</u> whereas the public received it _____.

- (A) piercingly
- (B) bitingly
- (C) gladly
- (D) over bitterly

100. An infant left alone will feel _____ but the mother's presence will bring a sense of comfort.

- (A) uncomfort
- (B) ease
- (C) solace
- (D) discomfort

SECTION - B

Post Specific Subject - Related Questions

101. Which among the following is not a natural method of rodent control?

- (A) Removal of potential rodent homes
- (B) Elimination of food sources
- (C) Inclusion of natural rodent predator
- (D) Use of natural pesticides

102. Integrated Pest Management (IPM) brings together into a workable combination the best strategies of all control methods that apply to a given problem created by the activities of pests. Which among the following is a general type of single component control methods may be used in IPM programs in stored ecosystems?

- (A) Physical and mechanical methods
- (B) Biological control
- (C) Host plant resistance



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(D) All of the above

103. Pomology is

- (A) production and marketing of vegetables
- (B) production and marketing of fruits
- (C) production and marketing of flowers
- (D) production and marketing of seeds

104. Study and selection, planting, care and removal of individual trees, shrubs, vines and other perennial woody plants is known as

- (A) Viticulture
- (B) Arboriculture
- (C) Landscape horticulture
- (D) Olericulture

105. Young leaves are deformed and arranged in the form of a rosette due to the deficiency of

- (A) Sulphur
- (B) Magnesium
- (C) Calcium
- (D) Boron

106. Which among the following is not a least abundant macronutrients in plants?

- (A) Calcium
- (B) Magnesium
- (C) Potassium
- (D) Phosphorus

107. Edible part of Sprouting broccoli is

- (A) Bulb
- (B) Curd
- (C) Flower bud
- (D) Knob



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108. Which among the following is an indirect measure of pore space within a soil?

- (A) Bulk density
- (B) Specific gravity
- (C) Brittleness
- (D) Plasticity

109. The reaction of a soil refers to its acidity or alkalinity. It is an important indicator of soil health. It can be easily measured and is usually expressed by the pH value. Out of the following which combination of statements are correct?

- i. Most soils are in the pH range of 5-8 while the range for plant growth is within pH 3-10.
- ii. Unfavourable high pH values, as observed in alkali soils, can be decreased by amendment with materials such as gypsum, elemental S or iron pyrites.
- iii. pH of 7.5-8.5 is generally called the neutral range.
- iv. Plants are generally more sensitive to strong alkalinity, where the dominant cation is often Na, than to strong acidity where the dominant cation is H.

विकल्प:

- (A) i and ii only
- (B) i, ii and iv only
- (C) i, ii and iii only
- (D) i, ii, iii and iv

110. Which among the following is an example of Pseudocarpic fruit?

- (A) Pineapple
- (B) Burdock
- (C) Strawberry
- (D) None of the above

111. Development of a diploid (2N) embryo from nucellar or integumentary tissue is

- (A) apospory
- (B) adventitious embryony
- (C) diploid pseudogamy
- (D) none of the above



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112. Which among the following are the Laws of Embryony?

- a. Law of Parsimony
- b. Law of Origin
- c. Law of Numbers
- d. Law of Destination

विकल्प:

- (A) a, b and c
- (B) a, c and d
- (C) b, c and d
- (D) all of the above

113. Which among the following statement is not true?

- (A) Seeds are composed largely of metabolically inactive food reserves.
- (B) Starch is the principal, most widespread storage carbohydrate of seeds.
- (C) Starch is stored in two related forms, amylose and amylopectin, which are two polymers of D-glucose.
- (D) Amylose is composed of 200 to 1000 glucose units linked by a 1.6 glucosidic bonds.

114. ____ is the most widely used chemical for promoting seed germination.

- (A) Potassium nitrate
- (B) Thiourea
- (C) Scopoletin
- (D) IAA

115. Which sector of Horticulture includes growing decorative lawns and sports surfaces for football, cricket, golf etc.?

- (A) Arboriculture
- (B) Turf culture
- (C) Landscaping
- (D) Interior landscaping

116. Each species of plant or animal has an ideal location for its best growth and survival and the location is called

- (A) Habitat



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- (B) Microhabitat
- (C) Niche
- (D) Biome

117. Stevenson screen is used along with an instrument for obtaining an accurate result. Which instrument?

- (A) Vertically mounted mercury-in-glass thermometer
- (B) Rain gauge
- (C) Hygrometer
- (D) None of the above

118. The Beaufort scale is for describing

- (A) Periods of bright sunshine
- (B) The direction of wind
- (C) The dew point
- (D) Wind forces at sea or on land

119. The inflorescence of fennel is which of the following?

- (A) Raceme
- (B) Corymb
- (C) Umbel
- (D) Capitulum

120. The xylem tissue produced in the spring has larger diameter vessels than autumn produced xylem. The distinctive pattern produced where the two types of tissue meet is named as

- (A) Cork
- (B) Annual rings
- (C) Callus growth
- (D) Medullary rays

121. Part of the cell wall of endodermal cells prevents water from moving into the cell is called

- (A) White strip
- (B) Annual ring
- (C) Guttation
- (D) Casparian strip



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122. In high air humidity more water moves into the leaves than is being lost to the air and the more delicate cell walls in the leaf may burst. The condition is called

- (A) Oedema
- (B) Plasmolysis
- (C) Flaccid
- (D) Transpiration pull

123. Which tissue transporting carbohydrates from the leaves as a food supply for the production of energy in the cortex?

- (A) Xylem
- (B) Phloem
- (C) Parenchyma
- (D) Endodermis

124. Movement of water upto the stem and reaching all parts of the plant is due to

- (A) Root pressure
- (B) Capillary action
- (C) Transpiration pull
- (D) All of the above

125. "Corky core" in apples and "cracked fruit" of peaches is due to the deficiency of

- (A) Zinc
- (B) Copper
- (C) Boron
- (D) Potassium

126. Disorders such as "brown heart" of turnips and "hollow stem" in brassicas is due to the deficiency of

- (A) Molybdenum
- (B) Copper
- (C) Boron
- (D) Potassium

127. Which of the following pair is not correctly matched?



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- (A) Date palm - Monoecious
- (B) Papaya - Polygamous
- (C) Fig - Gynodioecious
- (D) Kiwi fruit - Dioecious

128. Fe toxicity of rice is known as

- (A) Bronzing
- (B) Browning
- (C) Brown stripes
- (D) Broadleaf

129. The CAM process found in some succulent plants help them to survive conditions of drought. CAM plants absorb and store Carbon dioxide as

- (A) Abscisic acid
- (B) Gibberellic acid
- (C) Indoleacetic acid
- (D) Malic acid

130. Vascular bundle in plants is composed of

- (A) Xylem
- (B) Phloem
- (C) Fibres
- (D) All of the above

131. If a plant or plant organ such as root is supplied with low oxygen concentrations in a waterlogged or compacted soil, anaerobic respiration takes place and the incomplete breakdown of the carbohydrate occurs.

What is the waste product produced in this?

- (A) Alcohol
- (B) Carbon dioxide
- (C) Water
- (D) Carbon monoxide

132. An example for a plant hormone is

- (A) Auxin
- (B) Gibberellin



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- (C) Cytokinin
- (D) All of the above

133. The plant hormone indoleacetic acid is also known as

- (A) Gibberellic acid
- (B) Auxin
- (C) Ethylene
- (D) Abscisic acid

134. Which is an example of a false fruit, formed from parts other than the ovary wall?

- (A) Cherry
- (B) Plum
- (C) Apple
- (D) Banana

135. Pineapple is a false fruit and is formed from

- (A) Receptacle
- (B) Ovary wall
- (C) Seed coat
- (D) Inflorescence

136. The environmental requirements for germination of seed are

- (A) Oxygen
- (B) Water
- (C) Temperature
- (D) All of the above

137. What is etiolation?

- (A) Type of growth the shoot produces as it moves through the soil in response to gravity
- (B) Shoot growth towards a light source
- (C) Response to stimuli in its environment to establish the direction of growth
- (D) None of the above



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138. A shoot with a different colour flower or leaf may arise in a group of plants and is termed as

- (A) Triploid
- (B) Sport
- (C) Pure
- (D) New breed

139. Downy mildew of cabbage is caused by

- (A) Nectriagalligena
- (B) Diplocarpon rosae
- (C) Phytophthora infestans
- (D) Perenospora brassicae

140. The root disease "club root" is caused by

- (A) Plasmodiophora brassicae
- (B) Pythium species
- (C) Phytophthora species
- (D) Fusarium nivale

141. Which of the following disease is caused by Mycoplasmas?

- (A) Crown gall
- (B) Soft rot
- (C) Aster yellows disease
- (D) Fireblight

142. Sand is mainly composed of

- (A) Mica
- (B) Quartz
- (C) Kaolinite
- (D) Vermiculite

143. Chemically most of the sand grains are

- (A) Cationic
- (B) Anionic
- (C) Inert
- (D) None of the above



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144. As per the classification of International Society of Soil Science, the silt particles comes in (diameters in mm)

- (A) <0.002
- (B) 0.002 to 0.02
- (C) 0.2 to 2
- (D) 0.02 to 0.2

145. Which one is not a clay mineral?

- (A) Mica
- (B) Kaolinite
- (C) Vermiculite
- (D) Quartz

146. ____ are plants that have chromosome numbers which are not an exact multiple of the haploid number.

- (A) Polyploids
- (B) Aneuploids
- (C) Diploids
- (D) None of the above

147. Water is lost from plant by

- (A) Respiration
- (B) Transpiration
- (C) Evaporation
- (D) Infiltration

148. Water is held in the soil in the form of water films around all the soil particles and aggregates. Which force holds water to the soil particles?

- (A) Force of gravity
- (B) Suction force of plant roots
- (C) The surface tension of water film
- (D) Osmotic force

149. According to five kingdom classification, bacteria belong to kingdom

- (A) Protista
- (B) Monera



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- (C) Mycota
- (D) Prokaryota

150. The book, Historia naturalis was prepared by

- (A) Caius Plinius Secundus
- (B) Dioscorides
- (C) Albertus Magnus
- (D) Theophrastus

+4

151. Most abundant part of a plant cell wall is

- (A) Cellulose
- (B) Lignin
- (C) Hemicellulose
- (D) Pectin

+4

152. Chromosome number (n) of potato (*Solanum tuberosum*) is

- (A) 12
- (B) 24
- (C) 7
- (D) 10

+4

153. Microbodies associated with mitochondria and chloroplasts containing the enzyme glycolate oxidase are known as

- (A) Dictyosomes
- (B) Peroxisomes
- (C) Glyoxisomes
- (D) None of the above

+4

154. Which among the following is a green house gas?

- (A) carbon dioxide
- (B) methane
- (C) nitrous oxide
- (D) all of the above

+3

155. Name the vegetative propagation techniques where the plant part to be cut is rooted before it is completely cut away from the parent plant.



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- (A) Cleft grafting
- (B) Layering
- (C) Budding
- (D) Tap grafting

+1

156. A form of asexual reproduction through which seeds are produced without fertilization, the seeds being entirely of maternal origin.

- (A) Apomixis
- (B) Micropropagation
- (C) Separation
- (D) None of the above

+4

157. Bud scales (cataphylls) are ____ designed for protecting buds (apical or axillary).

- (A) Bark
- (B) Petiole
- (C) Leaves
- (D) Xylem fibres

+4

158. Transpiration and translocation are two major plant growth processes associated with

- (A) Movement of water in plants
- (B) Movement of water in soil
- (C) Mutation of plant DNA
- (D) None of the above

+4

159. Excess copper induces deficiency of which mineral in plants?

- (A) Chlorine
- (B) Iron
- (C) Phosphorous
- (D) Manganese

+2

160. Which among the following statement is true about Abscisic acid (ABA)?

- (A) As rooting hormones to induce rooting (adventitious) in cuttings, especially when propagating woody plants.



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- (B) To prevent fruit drop (control of abscission) in fruits trees (e.g. citrus) shortly before harvest.
- (C) To increase blossom and fruit set in tomato.
- (D) None of the above

+4

161. Select the wrong statement with respect to cytokines.

- (A) Cytokinins occur in embryonic or meristematic organs.
- (B) Examples of natural cytokinins are isopentenyl adenine (IPA) and zeatin (Z).
- (C) Cytokinins has poor interaction with auxins to affect various plant functions.
- (D) The principal role of cytokinins in plant physiology is the promotion of cell division.

+4

162. ____ is found in the tissues of ripening fruits and stem nodes. It promotes fruit ripening and leaf abscission.

- (A) Abscisic acid (ABA)
- (B) Auxin
- (C) Ethylene
- (D) None of the above

+4

163. ____ is the most active naturally occurring cytokinin.

- (A) Zeatin
- (B) Kinetin
- (C) Benzyl adenine
- (D) Isopentenyl adenine

+4

164. What is the unit of Photosynthetically active radiation?

- (A) Wm

-2

- (B) μEm

-2

s



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-1

(C) *EMJ*

-1

(D) *gMJ*

-1

+2

165. The process evapotranspiration involves

- (A) Movement of water within the soil towards the soil surface or towards the active root system of the plants
- (B) The physical removal of water vapour from the boundary layer
- (C) Change of rain water or snow from the outer surface of plants into vapour
- (D) All the above

+4

166. Choose the wrong statement.

- (A) The rate of evaporation is fairly independent of the size of the measuring pan under high humidity conditions.
- (B) The rate of evaporation is influenced by the size of the measuring pan when the air is dry.
- (C) Lysimeters are commonly used for measuring evapotranspiration from a crop.
- (D) Lysimeters are made to float in water bodies with suitable rafts for measuring water loss.

+4

167. Aquacaps are used for

- (A) Minimizing evaporative water loss
- (B) Increasing the temperature of surface water
- (C) For promoting algal growth
- (D) All of the above

+4

168. Sustained, extended deficiency in precipitation is called

- (A) Palmer drought severity index



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- (B) Drought
- (C) Dry period
- (D) Bhalme and Mooley Drought Index

+4

169. The measurement of drought is expressed in

- (A) Percent of Normal
- (B) Deciles
- (C) Dependable rains
- (D) All of the above

+4

170. Soil water is lost from the soil surface and from the rooting zone of the plant by the following respectively:

- (A) Evaporation and Respiration
- (B) Transpiration and evaporation
- (C) Evaporation and infiltration
- (D) Evaporation and transpiration

+4

171. A soil that has been saturated, then allowed to drain freely without evaporation until drainage effectively ceases is said to be at

- (A) Permanent wilting point
- (B) Available water content
- (C) Soil moisture deficit
- (D) Field capacity

+2

172. Water is drawn upwards from the water table in a continuous network of pores. This upward movement of water occurs only in saturated soils is called

- (A) Capillary rise
- (B) Water movement
- (C) Osmotic rise
- (D) Gravitational water movement

+4

173. The lime loving plants have evolved a different metabolism and are tolerant of high soil pH. They are also called

- (A) Calcifuge
- (B) Calcicoles
- (C) Calcareous



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(D) Calculus

+4

174. The lime requirement of the soil can be met by adding the lime materials such as

- (A) Calcium carbonate
- (B) Calcium oxide
- (C) Calcium hydroxide
- (D) All of the above

+4

175. Polyploidy can be induced by the use of

- (A) NAA
- (B) Colchicine
- (C) Glacial acetic acid
- (D) 2,4-D

+4

176. A synthetic growth retardant used to prevent sprouting of onions and potatoes.

- (A) Maleic hydrazide
- (B) Daminozide
- (C) Chlormequat
- (D) Ancymidol

+4

177. Crown Gall disease is caused by

- (A) Agrobacterium tumifascients
- (B) Erwiniacarotovora
- (C) Pseudomonas syringae
- (D) Xanthomonas phaseoli

+4

178. Viral and mycoplasma infections are known to cause reduced vigor and stunting in plants. However, an application of ____ spray overcomes stunting and axillary bud suppression.

- (A) Auxin
- (B) Gibberellic acid
- (C) Absciscic acid (ABA)
- (D) Cytokinin

+4



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179. Which among the following is a goal of Integrated Pest Management (IPM)?

- (A) Improved management of pests
- (B) Reduction of potential hazards
- (C) Economic protection of plants
- (D) All of the above

+3

180. Which among the following is a protective fungicide?

- (A) Benzimidazole
- (B) Captan
- (C) Thiram
- (D) Zineb

+4

181. Which among the following is an example of bacteria that is used for pest control?

- (A) *Bacillus subtilis*
- (B) *Bacillus cerus*
- (C) *Bacillus thuringiensis*
- (D) *Bacillus sterothermophilus*

+4

182. Identify the insecticide that is not natural.

- (A) Pyrethrum
- (B) Nicotine
- (C) Rotenone
- (D) Chlordane

+4

183. Which one is an example for nonselective herbicide?

- (A) Roundup
- (B) 2,4-dichlorophenoxy acetic acid
- (C) All of the above
- (D) None of the above

+4

184. Which among the following is not a greenhouse fungal disease?

- (A) Powdery mildew
- (B) Botrytis blight
- (C) Root rot
- (D) Tobacco ring spot



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+4

185. Choose the correct statement.

- (A) Long days hasten tuber formation in potatoes
- (B) Short day plants flower when the days get longer
- (C) Short days hasten root enlargement in sweet potatoes
- (D) Long day plants flower when days are shorter

+4

186. Select the wrong statement about wind.

- (A) A slight wind is necessary to replenish Carbon dioxide near plant surface
- (B) Wind carries oxygen away from the plant
- (C) Wind aid in pollination
- (D) None of the above

+4

187. Which one is a biennial plant?

- (A) Amaranthus
- (B) Cabbage
- (C) Pumpkin
- (D) Asparagus

+4

188. Which one is a warm season crop?

- (A) Okra
- (B) Broccoli
- (C) Cauliflower
- (D) All of the above

+4

189. Uptake of silicon in the form of silicate anion in cereals such as rice is required for

- (A) Nitrogen fixation
- (B) For breaking urea in the soil
- (C) Stalk stability
- (D) Flowering

+4

190. The most abundant mineral nutrient in plant is

- (A) Nitrogen
- (B) Phosphorus
- (C) Potassium



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(D) Calcium

+4

191. Deficiency of Phosphorus occurs in plants is exhibited as

- (A) Retarded growth
- (B) Delayed ripening
- (C) Decreased shoot/root ratio
- (D) All of the above

+4

192. Deficiency of which mineral causes interveinal chlorosis of older leaves in which the veins remain green but the area between them turns yellow

- (A) Nitrogen
- (B) Magnesium
- (C) Sulphur
- (D) Phosphorus

+4

193. Chlorosis is seen in

- (A) Deficiency of nitrogen
- (B) Deficiency of chlorine
- (C) Zinc toxicity
- (D) All of the above

194. An artificial mulch, fibrous cloth material, bark or newspaper laid on the top of the soil preventing weeds from growing to the surface is called

- (A) Weed mat
- (B) Tex-R geodisk
- (C) Moldboardplow
- (D) All of the above

195. Which among the following is not a seed quality analysis?

- (A) Germination test
- (B) Cold test
- (C) Tetrazolium test
- (D) Foundation test



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196. Which among the following is a suitable technique to improve the germination capacity of seeds?

- (A) Scratching the surface of the seed
- (B) Placing the seeds in boiling water with heat turned off
- (C) Stimulation of germination capacity with certain wavelength of light
- (D) All of the above

197. ____ are the most efficient of all sources and most recommended for houseplants.

- (A) Incandescent lights
- (B) Mercury lamp
- (C) Skylight
- (D) Fluorescent lights

198. Which among the following is a goal of landscaping?

- (A) Hide unsightly conditions in the area
- (B) Modify environmental factors
- (C) Provide privacy
- (D) All of the above

199. What is xeriscaping?

- (A) A technique employed in landscape design to create a product that is water efficient in its maintenance.
- (B) A technique employed in landscape design to create a product that is light efficient in its maintenance.
- (C) A technique employed in landscape design to create an inhouse plant product.
- (D) None of the above

200. Identify the artificial growth inhibitor from below.

- (A) benzoic acid
- (B) coumarin
- (C) cinnamic acid
- (D) none of the above