प्रारंभिक शिक्षा तथा व्यवसायिक तत्त्वेत अनुसूची-२
dस्वतंत्र संस्थान जल-जातीय हकों का विवरण

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प्रारंभिक शिक्षा तथा व्यवसायिक तत्त्वेत अनुसूची-३
dविभागीय विभेदित जल-जातीय हकों का विवरण

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Subject: English (1X20=30)

1. He says he is ........ US citizen.
   a. a    b. an   c. the d. nothing

2. He is ........ only teacher for this subject.
   a. a    b. an   c. the d. nothing

3. Cottage industries supply us ........ our daily needs.
   a. in    b. from   c. with   d. by

4. They prefer begging ........ working.
   a. from    b. than   c. to   d. by

5. It ......... for 3 hours when we left home.
   a. rains b. is raining   c. has rained    d. had been raining

6. .........? Yes, let's start the lesson.
   a. Do you start the lesson? b. Will you start the lesson?
   c. Shall we start the lesson? d. Can we start the lesson?

7. The negative from 'Someone said something is ........
   a. Someone didn't say anything.
   b. None said nothing.
   c. Anyone didn't say anything.
   d. No one said anything.

8. Either you or your father is wrong, .........?
   a. isn't he b. aren't they   c. aren't you    d. don't you

9. Nobody's touched her yet,?
   a. have they b. has they   c. have nobody    d. hasn't anybody
10. The passive form of 'He wanted me to carry his bag' is .......... 
   a. His bag was wanted me to carry.
   b. He wanted me to be carried his bag.
   c. I am wanted to carry his bag by him.
   d. He wanted his bag to be carried by me.

11. The active form of 'This problem can't be solved by anyone' is .......... 
   a. No one can solve this problem.
   b. Anyone can't solve this problem.
   c. None can be solved this problem.
   d. None can't solve this problem.

12. What .......... If I didn't marry you? 
   a. you would do 
   b. would you do
   c. you did 
   d. did you do

13. If you had been there, you .......... 
   a. would have punished
   b. would punish
   c. would be punished
   d. would have punished

14. My brother always has me .......... his homework. 
   a. do 
   b. to do
   c. done 
   d. doing

15. Can you get this bike ..........? 
   a. repair 
   b. to repair
   c. repaired 
   d. to be repaired

16. You can't help .......... her. 
   a. to love 
   b. love
   c. loved 
   d. loving

17. Your health is not .......... 
   a. satisfied 
   b. satisfaction
   c. satisfactory 
   d. satisfy

18. It was a .......... flight. 
   a. legal 
   b. lawful
   c. legalise 
   d. legally

19. I don't know .......... he is staying with. 
   a. where 
   b. whose
   c. which 
   d. who

20. We played well, .........., we lost the game. 
   a. however 
   b. although
   c. so 
   d. as

Science (1x20=20)

21. How much Joule in there in 1 calorie? 
   (1 Calorie तो कितने Joule है?
   a. 2.2 Joule 
   b. 3.2 Joule
   c. 4.2 Joule 
   d. 5.2 Joule

22. The valency of phosphorus is .......... 
   (Phosphorus के वालनी तो कितने है?
   a. 1 and 2 
   b. 2 and 3
   c. 3 and 5 
   d. 1 and 3

23. In hypermetropia person can not see .......... 
   (प्रतीय अंश के लोगों ने दिखाई नहीं देता)
   a. near object 
   b. far object
   c. thin object 
   d. thick object

24. Which of the following is metalloid? 
   (नीचे का जिसका है Metalloid
   a. Mercury 
   b. Silicon
   c. Gold 
   d. Magnesium

25. Which is the longest cell in the human body? 
   (मानुषीय के कौन सी को पहले है?
   a. Muscle cell 
   b. Bone cell
   c. Nerve cell 
   d. None of above

26. Potato tuber gives rise to a new plant in the soil. What type of asexual reproduction is it? 
   (पोटाटो झाल्फ ने जन्मे पौधे)
   a. Sporulation 
   b. Vegetative propagation
   c. Fragmentation 
   d. Budding

27. Which material is used as heating element in heater? 
   (डीजेर के गर्मकरण को किस सामग्री उपयोग है?
   a. Copper 
   b. Tungsten
   c. Iron 
   d. Nichrome

28. Specific heat capacity of iron is .......... 
   (स्पेशकल हैट के आयरन का कितना है?
   a. 380 J/Kg°C 
   b. 390 J/Kg°C
   c. 470° J/Kg°C 
   d. 670 J/Kg°C

29. Which cell of the human blood does HIV affect? 
   (एच आई एच के लोगों के कौन सी वरदानता है?
   a. WBC 
   b. RBC
   c. Platelets 
   d. All of these

30. The division of fern is .......... 
   (फर्न का विभाजन कौन सा है?
   a. Thallophyta 
   b. Pteridophyta
   c. Brachophyta 
   d. Protista

31. Which of the following is liquid? 
   (नीचे का जिसका है जैविक तरीका है?)
   a. Thallophyta 
   b. Pteridophyta
   c. Brachophyta 
   d. Protista
32. What is the formula of slaked lime?

(A) NaOH  
(B) CaO  
(C) Ca(OH)₂  
(D) Mg(OH)₂

33. The estimated age of the earth is .........

(a) 5.4 Billion year  
(b) 4.5 Billion year  
(c) 5 Billion year  
(d) 5.5 Billion year

34. Voluntary muscles are found in .........

(a) heart  
(b) liver  
(c) lungs  
(d) foot

35. By which method heat is transmitted in water?

(a) Evaporation  
(b) Radiation  
(c) Convection  
(d) Conduction

36. Which era is called era of creppers?

(a) Archean and Proterozoic era  
(b) Mesozoic era  
(c) Paleozoic era  
(d) Cenozoic era

37. Reflex action is controlled by .........

(a) brain  
(b) automatic nervous system  
(c) spinal cord  
(d) peripheral nervous system

38. Insulin is produced by .........

(a) duodenum  
(b) pancreas  
(c) gall bladder  
(d) liver

39. What should be pH-value to be strong acid?

(a) Less than 4  
(b) More than 4  
(c) Less than 2  
(d) More than 2

40. In the periodic table all the non-metals are placed under .........

(a) S-block  
(b) P-block  
(c) d-block  
(d) f-block

41. If A and B are two subsets of \( U \) with \( n(U) = 43, n(A) = 25, n(B) = 18 \) and \( n(A \cup B) = 7 \), which is the value of \( n(A \cap B) \) ?

(a) 36  
(b) 7  
(c) 43  
(d) 30

42. How many diagonals are regular octagon?

(a) 0  
(b) 18  
(c) 22  
(d) 19

43. What is the area of a circle whose radius is the diagonal of square whose area is 4 \( cm^2 \) ?

(a) \( 2 \pi \)  
(b) \( 2 \pi \sqrt{2} \)  
(c) \( 4 \pi \)  
(d) \( 8 \pi \)

44. What is the total surface area of a solid sphere of diameter 14 cm?

(a) 98 \( \pi \) \( cm^2 \)  
(b) 196 \( \pi \) \( cm^2 \)  
(c) 392 \( \pi \) \( cm^2 \)  
(d) 588 \( \pi \) \( cm^2 \)

45. The marked price of a FM radio is Rs. 1200. What is the discount rate, if it is sold for Rs. 960?

(a) 10%  
(b) 20%  
(c) 15%  
(d) 8%
50. If $2x^4 = 4ax^6$, what is the value of $a$?
(a) 2
(b) 6
(c) 6a
(d) 2a

51. If $\sqrt{x - 7} = 1 + \sqrt{x}$, what is the value of $x$?
(a) 8
(b) 9
(c) 16
(d) None of above

52. A coin and a die are thrown together, what is the probability that the coin falls head and dice show 3?
(a) $\frac{1}{12}$
(b) $\frac{5}{12}$
(c) 1
(d) $\frac{1}{2}$

53. If a continuous series the mean $(\bar{x}) = 80$, assumed mean $(A) = 60$ and $\Sigma f = 40$, what is the value of $\Sigma f d$?
(a) 16
(b) 160
(c) 800
(d) 16000

54. If $a + b = 5$ and $ab = 6$, what is the value of $a^2 - b^2$?
(a) 5
(b) 6
(c) 10
(d) 12

55. If thrice of my age 10 years ago be subtracted from twice my present age, the result is my present age, how many years is my present age?
(a) 16
(b) 15
(c) 8
(d) 10

56. If $3\sqrt{2 - \sqrt{x}} = 1$ then what is the value of $x$?
(a) 4
(b) 6
(c) 8
(d) 2

57. What is the cash payment of a bill amounting Rs. 1800 allowing a discount of 5% and levying 13% VAT?
(a) Rs. 1934.30
(b) Rs. 1933.30
(c) Rs. 1932.30
(d) Rs. 1931.30

58. In the given figure is solid pyramid with equilateral triangle as its base, if the volume of the pyramid is 300 cm$^3$ and its height is $3\sqrt{3}$ cm. What is the length of each side of the triangular base?
(a) 10 cm
(b) 20 cm
(c) $10\sqrt{3}$ cm
(d) $20\sqrt{3}$ cm

59. In the given figure, O is the centre of circle, XY // BC, what is the value of $x$?
(a) 25°
(b) 35°
(c) 15°
(d) 45°
a. $40^\circ$  
b. $30^\circ$  
c. $60^\circ$  
d. $50^\circ$