Padasalai's Telegram Groups!

(தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்!)

- **Padasalai's NEWS - Group**
https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA

- **Padasalai's Channel - Group**
https://t.me/padasalaichannel

- **Lesson Plan - Group**
https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw

- 12th Standard - Group
https://t.me/Padasalai_12th

- 11th Standard - Group
https://t.me/Padasalai_11th

- 10th Standard - Group
https://t.me/Padasalai_10th

- 9th Standard - Group
https://t.me/Padasalai_9th

- 6th to 8th Standard - Group
https://t.me/Padasalai_6to8

- 1st to 5th Standard - Group
https://t.me/Padasalai_1to5

- TET - Group
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- PGTRB - Group
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- TNPSC - Group
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CLASS:X HALF UNIT TEST	TOTAL MARKS:75
UNIT:4,5,6,9,10,11,12,19,20,21,22,23 SCIENCE	TIME : 3 HRS

PART - A

I.CHOOSE THE CURRECT ANSWER: 12x1=12.

1. SI unit of resistance is _____.

   a)mho   b)joule   c)ohm   d)ohm meter.

2. The frequency,which is audible to the human oar is _____

   a)50 KHZ   b)20KHZ   c)15000 KHZ   d)10000KHZ

3. In the nuclear reaction $_6X^{12}$ α-decay $_ZY^A$, the value of A and z.

   a)8,6   b)8,4   c)4,8   d)cannot be determined with the given data.

4. Deliquescence is due to _____.

   a)strong affinity to water b)less affinity to water   c)strong hatred to water   d)inertness to water.

5. The P^H of a solution is 3.Its (OH^-) concentration is _____.

   a)$1x10^{-3}$ m   b)3m   c)$1x10^{-11}$ d)11m

6 .Which of the following are used as anaesthetics ?

   a)carboxylic acids   b)ethers   c)esters   d)aldehydes .

7. The numbers of chromosomes found in human beings are_____.

   a)22 pairs of autosomes and 1 pair of allosomes   b)22 autosomes and 1 allosomes

   c)46 autosomes   d)46 pair autosomes and 1 pair of allowsomes.

8. The use and disuse theory "was proposed by _____.

   a)Charles Darwin   b)Ernst Haeckel   c)jean baptiste Lamarck   d)gregor mendal.

9. rDNR is a _____.

   a)vector DNA   b)circular DNA   c)recombinant of vector DNA and desired DNA   d)satellite DNA

10. World 'No Tobacco day ' is observed on _____.

   a)May 31   b)june 6   c)april 22   d)October 2

11. World cancer day_____.

   a)may 4   b)November 7   c)February 4   d)june 5

12. The first nuclear rector was built in_____.

   a)japan   b)USA   c)india   d)UP

PART-II

II.ANSWER ANY 7 OF THE FOLLOWING.(Q.NO 20 COMPULSORY)   7x2=14

13. State ohm's law

14. What is the longitudinal wave?

15. State soddy and fajan's displacement law.

16. Define:Atomicity.

17. Differentiate reversible and irreversible reaction

18. Differentiate soaps and detergents?

19. What do you understand by the term phenotype and genotype?

20. If the P^H of a solution is 4.5;what is its P^{OH}?

21. What are the consequences of deforestation?

22. What is stage?

PART - B

III   ANSWERE ANY 7 QUESTIONS (Q.NO 31 COMPULSORY)   7X4=21
23) a)Define delectric potential and potential difference.
      b)Define the unit of current.
24.   Mention four cases in which there is no Dopper effect in sound?
25. a)What is the stellar energy
      b)Define one roentgen
26. a)Define combination reaction Give one example for an exothermic combination reaction.
     b)True or False (give current statement)
   (i)sodium chloride dissolved in water forms a non-aqueous solution.
27. a)Give structure and formula.
    i)propane   ii)furan   iii)cyclobutane   iv)benzene
    b)Name the simplest ketone and give its structure formula?
28. a)Explain the structure of a chromosome.
     b)What are okazaki fragments?
29. a)Why is archaeopteryx considered to be a connecting link.
     b)state the application DNA finger printing technique
30. a)What is the role fat in the cause of atherosclerosis?
     b)Expand the following abbrivation 1)IDDM 2)NIDDM 3)AIDS.
31.   A man is standing between two vertical walls 680 m apart.He claps his hands and hears two distinet
echoes after   0.9 seconds and 1.1 second respectively.what is the speed of sound in the air?
32. a)What precacutions can be taken for preventing heart diseases?
     b)What is metastasis?

PART – D

IV. ANSWER ALL QUESTIONS   3x7=21
33. a)State joule's law of heating.
   b)An alloy of nickel and chromium's used as the heating element why?
   c)How does a fuse wire protect electrical appliances?
                                  (OR)
    What the help of a circuit diagram derive the formula for the resultant resistant of three resistance
connected.
    a)in series and b)parallel.
34.   What is a nuclear reactor?Explain its essential parts with their functions.
                                  (OR)
    Compare the properties of alpha,beta,gamma,radiations.
35. Explain and draw the diagram in DNA.
                                  (OR)
   Why is the government imposing ban on the use of polythene bags and plastics?suggest alternatives.How is
this ban
    likey to improve the environment.

                        K.SELVAKUMAR M,Sc.B.Ed
                        BT.ASST .IN SCIENCE
                        SVKN SCHOOL THIRUPUR
                        9659217140