

Padasalai⁹s 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 https://t.me/Padasalai_TET
- PGTRB Group https://t.me/Padasalai_PGTRB
- TNPSC Group https://t.me/Padasalai_TNPSC

X-HP

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HALF PORTION TEST - 1

Standard X

SC	IENCE			
Time: 2.30 hrs.	Maximum Marks : 75			
Instructions: 1) Check the question paper for fairn	ess of printing. If there is any lack of fairness, inform th			
Hall Supervisor immediately.	그렇게 얼마나는 그리는 사람이 얼마나면 나는 나를 다듬다.			
2) Use Black or Blue ink to write an	d pencil to draw diagrams.			
Note: This question paper contains four parts.	되기가 되었다. 그리고 하고 얼을 작성 부모원이 없다.			
P	ART-I			
Note: i) Answer all the fifteen questions.	12x1=1			
1. Impulse is equal to	rite the code with the corresponding answer.			
a) rate of change of momentum	b) rate of force and time			
c) change of momentum				
2. In a myopic eye, the image of the object				
a) behind the retina	b) on the retina			
c) infront of the retina	d) on the blind spot			
3. If a substance is heated or cooled, the cha				
a) positive b) negative				
4. In a simple circuit, why does the bulb glo				
	b) Closing the switch completes the circuit			
c) Closing the switch breaks the circuit				
5. Which of the following represents 1 amu				
	b) Mass of a hydrogen atom			
c) 1/12th of the mass of a C - 12 atom	d) Mass of O-16 atom			
6. Which are available in Madurai?				
a) Gypsum b) Tungsten	c) Chromite d) Magnetite			
7. Deliquescence is due to				
a) strong affinity to water	b) less affinity to water			
c) strong hatred to water	d) inertness to water			
8. Kreb's cycle takes place in				
a) Chloroplast	b) Mitochondrial matrix			
c) Stomata	d) Inner mitochondrial membrane			
9. The brain of leech lies above the				
a) Mouth b) Buccal cavity	c) Pharynx d) Crop			
10. The outer most of the three cranial menin	ges is			
a) Arachnoid membrane	b) Piamater			
	d) Myelin sheath			

X-HP S 2 11. Estrogen is secreted by..... a) Anterior pituitary b) Primary follicle c) Graafian folliele d) Corpus luteum 12. Okasaki fragments are joined together by..... a) Helicase b) DNA Polymerase c) RNA primer d) DNA ligase PART - II Note: Answer lany seven questions. Questions no. 22 is compulsory: 7x2 = 1413. Define Weightlessness.

- 14. What is magnification of a lens?
- 15. What is Molar volume of a gas?
- 16. Explain the variation of ionisation energy (i) along the period (ii) down the group.
- 17. Define Ternary solution.
- 18. Write the reaction for photosynthesis.
- 19. What are the types of circulatory system?
- 20. Identify the parts A, B, C and D



- 21. What are allosomes?
- 22. Calculate the co-efficient of cubical expansion of a zinc bar whose volume is increased 0.25m³ from 0.3m³ due to the change in its temperature of 50K.

PART - III

Note: Answer any seven questions. Questions no. 32 is compulsory: 7x4=28

- 23. What are the types of inertia? Give an example for each type.
- 24. Differentiate the eye defects: Myopia and Hypermetropia.
- 25. Derive the expression of Joule's Law of heating.
- 26. Explain the different types of separation or concentration of an ore.
- 27. Write notes on (i) Saturated solution (ii) Unsaturated solution.
- 28. How is the circulatory system designed in leech to compensate the heart structure?
- 29. Differentiate between voluntary and involuntary actions.
- 30. Where are estrogens produced? What is the role of estrogens in the human body?
- 31. What are the contrasting characters of pea plant used by Mendel?
- 32. Calculate the % of each element in calcium carbonate. (Atomic mass: C-12, O-16, Ca-40)

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PART - IV

Note: i) Answer all the questions.

- ii) Each question carries seven marks.
- iii) Draw diagram wherever necessary.

3x7 = 21

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- 33. a) i) List any four properties of light.
 - ii) Explain the rules for obtaining images formed by a convex lens with the help of ray diagram.

(OR)

- b) i) How does MCB work?
 - ii) Write short notes on Seven segment display.
- 34. a) i) What are the differences between atoms and molecules?
 - ii) Give the salient features of 'Modern atomic theory'.

(OR)

- b) i) Write notes on various factors affecting solubility.
 - ii) Write short notes on deliquescence substances.
- 35. a) i) Describe the structure and working of the human heart.
 - ii) How are arteries and veins structurally different from one another?
 - b) i) With a neat labelled diagram describe the parts of a typical angiospermic ovule.
 - ii) Write the advantages and the disadvantages of self pollination and cross pollination.
