



# Padalsalai's Telegram Groups!

( தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்! )

- **Padalsalai's NEWS - Group**  
[https://t.me/joinchat/NIfCqVRBNj9hhV4wu6\\_NqA](https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA)
- **Padalsalai's Channel - Group**  
<https://t.me/padasalaichannel>
- **Lesson Plan - Group**  
<https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw>
- **12th Standard - Group**  
[https://t.me/Padasalai\\_12th](https://t.me/Padasalai_12th)
- **11th Standard - Group**  
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- **10th Standard - Group**  
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- **6th to 8th Standard - Group**  
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- **1st to 5th Standard - Group**  
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- **TET - Group**  
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- **PGTRB - Group**  
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# MedScore

The Neet Academy

**X – SCIENCE – BIOLOGY**  
**[ENGLISH VERSION]**

<b>Reg. No</b>						
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**Marks : 75**

**Time : 3 hrs**

## SECTION-I

## I. CHOOSE THE BEST ANSWER

$$12 \times 1 = 12$$

1. The site of origin of lateral roots
  - a. Cortex
  - b. Stele
  - c. Pericycle
  - d. Vascular bundle
2. The sperms are stored in
  - a. Vas deferens
  - b. Sperm vesicle
  - c. Ejaculatory duct
  - d. Genital atrium
3. Which is the sequence of correct blood flow
  - a) ventricle - atrium - vein - arteries
  - b) atrium - ventricle - veins - arteries
  - c) atrium - ventricle - arteries - vein
  - d) ventricles - vein - atrium - arteries
4. Dendrites transmit impulse ----- cell body and axon transmit impulse ----- cell body.
  - a. away from, away from
  - b. towards, away from
  - c. towards, towards
  - d. away from, towards
5. Ovulation is induced by
  - a. TSH
  - b. LH
  - c. FSH
  - d. PRL
6. The plant which propagates with the help of its leaves is \_\_\_\_\_
  - a. Onion
  - b. Neem
  - c. Ginger
  - d. Bryophyllum
7. The loss of one or more chromosome in a ploidy is called \_\_\_\_\_
  - a. Tetraploidy
  - b. Aneuploidy
  - c. Euploidy
  - d. polyploidy
8. The 'use and disuse theory' was proposed by \_\_\_\_\_
  - a. Charles Darwin
  - b. Ernst Haeckel
  - c. Jean Baptiste Lamarck
  - d. Gregor Mendel
9. Which of the following is used to produce products useful to humans by biotechnology techniques?
  - a. enzyme from organism
  - b. live organism
  - c. vitamins
  - d. both (a) and (b)
10. Tobacco consumption is known to stimulate secretion of adrenaline. The component causing this could be
  - a. Nicotine
  - b. Tannic acid
  - c. Curcumin
  - d. Leptin
11. Which of the following statement is wrong with respect to wind energy
  - a) Wind energy is a renewable energy
  - b) The blades of wind mill are operated with the help of electric motor
  - c) Production of wind energy is pollution free
  - d) Usage of wind energy can reduce the consumption of fossil fuels
12. Where you will create category of blocks?
  - a. Block palette
  - b. Block menu
  - c. Script area
  - d. Sprite

## SECTION-II

## II. WRITE ANY SEVEN QUESTIONS

$$7x^2=14$$

13. Draw a neat labeled diagram of a neuron.
14. Trace the pathway followed by water molecules from the time it enters a plant root to the time it escapes into the atmosphere from a leaf.
15. **Assertion (A):** Application of cytokinin to marketed vegetables can keep them fresh for several days.  
**Reason (R):** Cytokinins delay senescence of leaves and other organs by mobilization of nutrients.
  - a. If both A and R are true and R is correct explanation of A



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- b. If both A and R are true but R is not the correct explanation of A  
 c. A is true but R is false  
 d. both A and R are false
16. Match the following terms with their respective meanings
- |                 |   |                                          |
|-----------------|---|------------------------------------------|
| a) Parturition  | - | 1) Duration between pregnancy and birth  |
| b) Gestation    | - | 2) Attachment of zygote to endometrium   |
| c) Ovulation    | - | 3) Delivery of baby from uterus          |
| d) Implantation | - | 4) Release of egg from Graafian follicle |
17. Why is euploidy considered to be advantageous to both plants and animals?  
 18. How can you determine the age of the fossils?  
 19. State the applications of DNA fingerprinting technique  
 20. What are psychotropic drugs ?  
 21. Solar energy is a renewable energy. How?  
 22. What is Scratch?

### SECTION-III

#### III. WRITE ANY SEVEN QUESTIONS

7X4=28

23. Give an account on vascular bundle of dicot stem.  
 24. List out the parasitic adaptations in leech.  
 25. (a) How are arteries and veins structurally different from one another?  
 (b) Enumerate functions of blood.  
 26. 'A' is a cylindrical structure that begins from the lower end of medulla and extend downwards. It is enclosed in bony cage 'B' and covered by membranes 'C'. As many as 'D' pairs of nerves arise from the structure 'A'.  
 (i) What is A (ii) Name (a) bony cage 'B' and (b) membranes 'C' (iii) How much is 'D'  
 27. (a) Mention the function of endosperm.  
 (b) How distinguish exine from intine.  
 (c) Define triple fusion.  
 28. Explain the structure of a chromosome.  
 29. How do you differentiate homologous organs from analogous organs?  
 30. What are the effects of hybrid vigour in animals.  
 31. Differentiate between Type-1 and Type-2 diabetes mellitus.  
 32. Enumerate the importance of forest.

### SECTION-IV

#### IV. ANSWER THE FOLLOWING QUESTIONS

3X7=21

33. What is Aerobic respiration? Describe and name three stages of cellular respiration that aerobic organisms use to obtain energy from glucose.  
 (OR)  
 (i) Differentiate between systole and diastole. (ii) Explain the conduction of heart beat.  
 34. (a) Name the gaseous plant hormone. Describe its three different actions in plants.  
 (b) Which hormone is known as stress hormone in plants ? Why?  
 (c) Write the physiological effects of gibberellins.  
 (OR)  
 What is menstrual cycle and phases of menstrual cycle? Indicate the changes in the ovary and uterus.  
 35. Explain with an example the inheritance of dihybrid cross. How is it different from monohybrid cross?  
 (OR)  
 (i) How does rainwater harvesting structures recharge ground water?  
 (ii) What is the importance of rainwater harvesting.



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10<sup>th</sup> – Easy Links!

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10<sup>th</sup> Public Exam - Q&A

Just Touch & Go!



10<sup>th</sup> Half Yearly - Q&A



10<sup>th</sup> Quarterly - Q&A



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10<sup>th</sup> – Easy Links!

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10<sup>th</sup> PTA Book - Q&A



10<sup>th</sup> Study Materials – EM



10<sup>th</sup> Study Materials - TM



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10<sup>th</sup> Official Model - Q&A



10<sup>th</sup> Centum Special - Q&A



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10<sup>th</sup> – 3<sup>rd</sup> Revision - Q&A



10<sup>th</sup> – 2<sup>nd</sup> Revision - Q&A



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10<sup>th</sup> – 3<sup>rd</sup> Mid Term - Q&A



10<sup>th</sup> – 2<sup>nd</sup> Mid Term - Q&A



10<sup>th</sup> – 1<sup>st</sup> Mid Term - Q&A

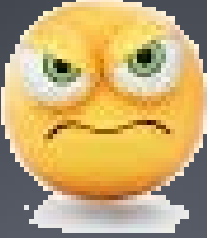




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10<sup>th</sup> – Monthly Test - Q&A



10<sup>th</sup> Free Online Test (EM)



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10<sup>th</sup> – Toppers Answers Sheet



10<sup>th</sup> – Exam Time Tables



10<sup>th</sup> Join Telegram Group