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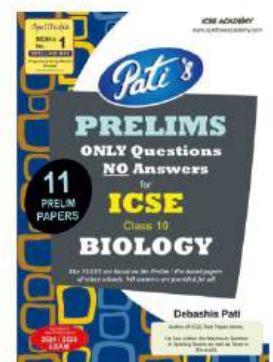
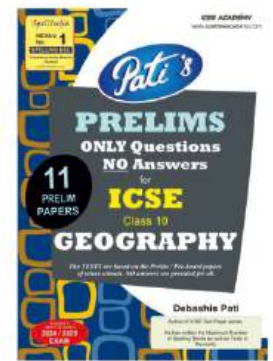
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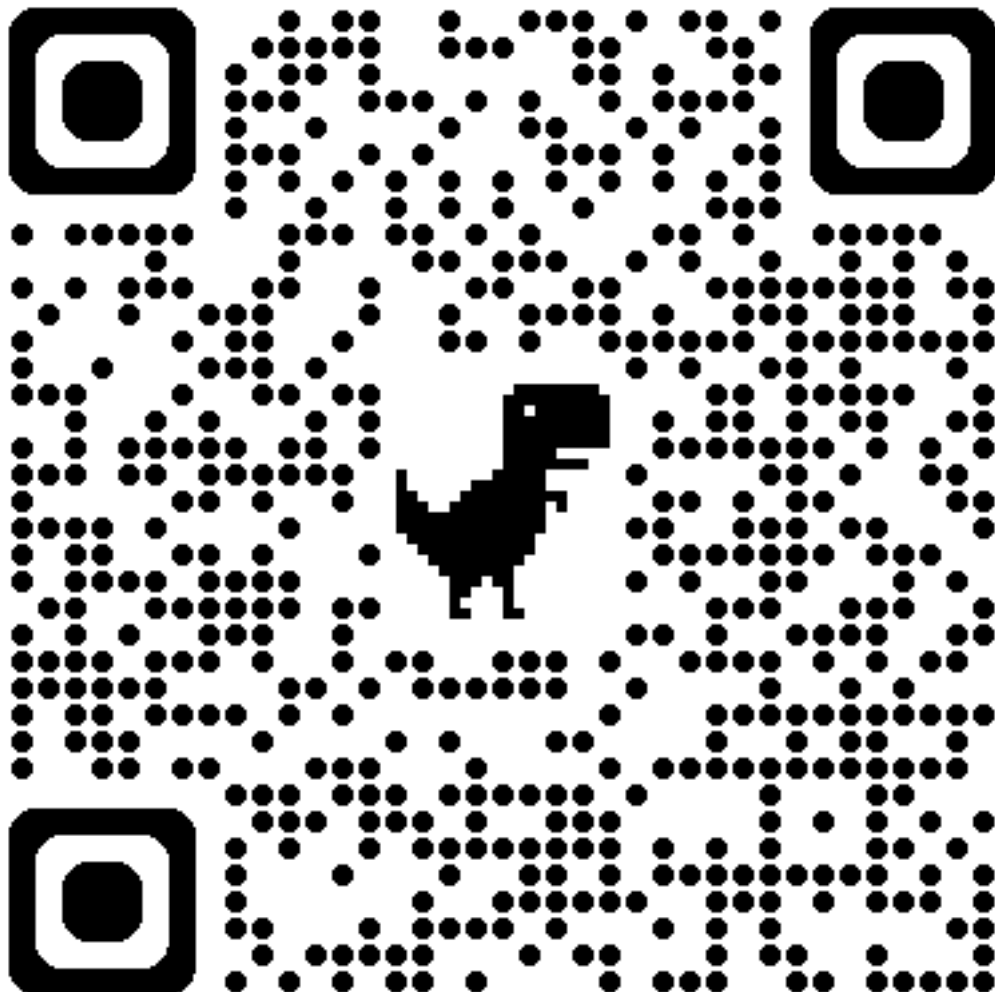
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COMPETENCY-FOCUSED PRACTICE QUESTIONS

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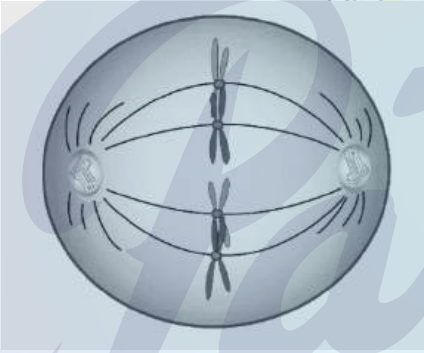
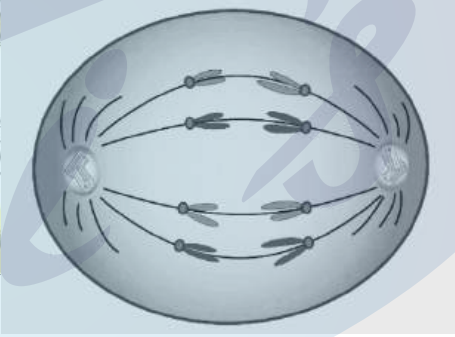
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ICSE - CLASS X

Biology

I: Multiple Choice Questions (1 Mark Each)

S.No.	Questions
1.	<p><i>[Pollution]</i></p> <p>Rita suffers from constant headaches and high blood pressure. Her residence is close to an airport. What could be the <i>most likely</i> cause of her condition?</p> <p>(a) Noise pollution (b) Air pollution (c) Nuclear pollution (d) Water pollution</p> <p style="text-align: right;">[Analysis]</p>
2.	<p><i>[Human Anatomy and Physiology]</i></p> <p>An exo-endocrine gland in the human body is:</p> <p>(a) Pituitary gland (b) Pancreas (c) Salivary gland (d) Adrenal gland</p> <p style="text-align: right;">[Application & Analysis]</p>
3.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Assertion: If both kidneys fail, urea from the blood is removed by dialysis. Reason: Accumulation of urea in the human body is toxic.</p> <p>(a) A is True, and R is false. (b) A is False, and R is true. (c) Both A and R are true. (d) Both A and R are false.</p> <p style="text-align: right;">[Application & Analysis]</p>
4.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Rajesh was told to buy a blue cloth by his craft teacher. He couldn't differentiate blue colour from green and hence brought a green cloth to class. Which medical reason could have resulted in this?</p> <p>(a) Myopia (b) Cataract (c) Colour blindness (d) Hyperopia</p> <p style="text-align: right;">[Analysis]</p>

S.No.	Questions
5.	<p><i>[Plant Physiology]</i></p> <p>Mary sprinkled 5 kg of common salt on the grass growing on her lawn. After a couple of days, she observed that the grass had wilted and died. This was due to which of the following conditions?</p> <p>(a) Endosmosis (b) Turgidity (c) Deplasmolysis (d) Plasmolysis</p> <p style="text-align: right;">[Understanding & Analysis]</p>
6	<p><i>[Human Anatomy and Physiology]</i></p> <p>In cholera, patients suffer from vomiting and watery bowels. They may die due to the:</p> <p>(a) poisoning by the accumulation of high quantities of urea in the body. (b) ability of the intestines to absorb water into the blood. (c) excretion of almost all the water by the kidneys. (d) the failure of the kidneys.</p> <p style="text-align: right;">[Understanding]</p>
7.	<p><i>[Basic Biology]</i></p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>A.</p>  </div> <div style="text-align: center;"> <p>B.</p>  </div> </div> <p>The given figures A and B show _____ and _____ stages of cell division.</p> <p>(a) prophase, metaphase (b) telophase, anaphase (c) metaphase, anaphase (d) anaphase, telophase</p> <p style="text-align: right;">[Analysis]</p>
8.	<p><i>[Human Anatomy and Physiology]</i></p> <p>A person is suffering from kidney failure. He is put on a dialysis machine by the doctors. The osmotic pressure of dialysis fluid should be:</p> <p>(a) equal to that of blood. (b) more than that of blood. (c) less than that of blood. (d) equal to zero.</p> <p style="text-align: right;">[Application]</p>

S.No.	Questions
9.	<p><i>[Human Anatomy and Physiology]</i></p> <p>A squirrel is in a scary situation. The secreted adrenaline prepares the body to meet the situation. Which of the following is NOT TRUE for this situation?</p> <p>(a) Adrenaline prepares the body to fight danger. (b) Extra energy and strength are provided to the body. (c) At the time of the stress, fewer hormones are released into the blood. (d) Adrenaline prepares the body to run away from danger.</p> <p style="text-align: right;">[Understanding]</p>
10.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Assertion (A): The main pulmonary artery pumps oxygenated blood from the right ventricle into the lungs.</p> <p>Reason (R): Inside the lungs, the artery divides and divides several times to form capillaries around the air sacs.</p> <p>(a) A is True, and R is false. (b) A is False, and R is true. (c) Both A and R are true. (d) Both A and R are false.</p> <p style="text-align: right;">[Understanding]</p>
11.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Given below are some common reflexes in humans.</p> <ol style="list-style-type: none"> i. Quick closing of the eyelids when a strong beam of light is flashed across. ii. Apply brakes to your vehicle if anything suddenly comes in front. iii. Playing a musical instrument. iv. Coughing reflex, when the food is swallowed, enters the windpipe. <p>The conditioned reflexes are:</p> <p>(a) i and ii (b) ii and iii (c) iii and iv (d) i and iv</p> <p style="text-align: right;">[Analysis]</p>
12.	<p><i>[Plant Physiology]</i></p> <p>Electrons released on splitting of water molecules in photosynthesis are used in producing:</p> <p>(a) NADP (b) NADPH (c) ATP (d) O₂</p> <p style="text-align: right;">[Analysis]</p>

13.

[Human Anatomy and Physiology]

The four major steps in seeing an object are:

- i. interpretation by the brain.
- ii. focussing of image.
- iii. entry of light rays.
- iv. transmission of nerve impulses from the retina & brain.

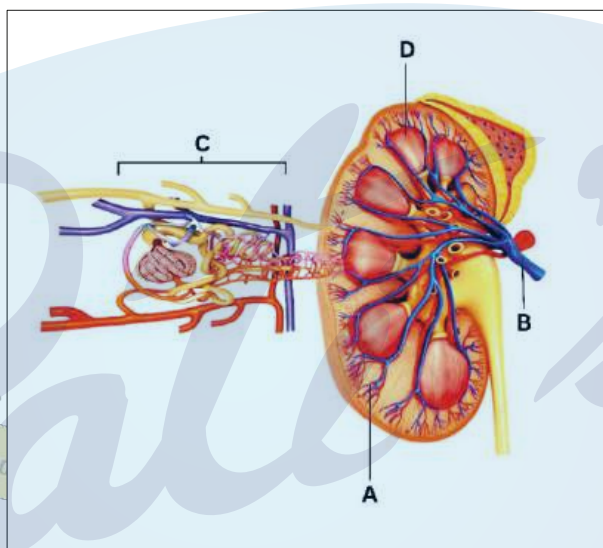
The correct sequence will be:

- (a) i, ii, iii, iv
- (b) ii, iii, iv, i
- (c) iii, ii, iv, i
- (d) iv, i, ii, iii

[Understanding]

14.

[Human Anatomy and Physiology]



Based on the given figure, identify the structural as well as the functional unit of kidney:

- (a) A
- (b) B
- (c) C
- (d) D

[Analysis]

15.


[Human Anatomy and Physiology]

Assertion: Seminiferous tubules produce sperms.

Reason: Seminiferous tubules secrete Oxytocin, which aids in the production of sperm.

- (a) A is True, and R is false.
- (b) A is False, and R is true.
- (c) Both A and R are true.
- (d) Both A and R are false.

[Analysis]

S.No.	Questions
16.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Assertion: The nerve impulse travels from the axon of a neuron to the axon of another neuron.</p> <p>Reason: The end portion of the axon has swollen ends, which store neurotransmitters.</p> <p>(a) A is True, and R is false. (b) A is False, and R is true. (c) Both A and R are true. (d) Both A and R are false.</p> <p style="text-align: right;">[Understanding]</p>
17.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Thomas played cricket on a hot summer afternoon. His urine output was much less, though he drank plenty of water. What could be the possible cause?</p> <div data-bbox="683 779 1050 1124" style="text-align: center;">  </div> <p>P - Kidneys reabsorb a lot of water Q - Sweat glands are active R - Kidneys absorb less water S - Sweat glands are inactive</p> <p>(a) R and Q (b) P and Q (c) P and S (d) R and S</p> <p style="text-align: right;">[Analysis & Application]</p>
18.	<p><i>[Pollution]</i></p> <p>Acid rain is caused due to polluted gases like CO₂, SO₂, and oxides of nitrogen. The pollution which does not take place immediately after acid rain is:</p> <p>(a) Air pollution (b) Water pollution (c) Soil Pollution (d) Noise Pollution</p> <p style="text-align: right;">[Understanding & Analysis]</p>

S.No.	Questions
19.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Surya's father was diagnosed with Diabetes mellitus. The doctor advised him to limit certain foods. Which are the foods he should avoid eating?</p> <p>P - Sweets Q - Leafy vegetables R - Bananas S - Pulses</p> <p>(a) P and R (b) Q and S (c) R and S (d) P and Q</p> <p style="text-align: right;">[Application]</p>
20.	<p><i>[Human Anatomy and Physiology]</i></p> <p>During light adaptation:</p> <p>(a) Rods and cones become active. (b) Rods and cones become inactive. (c) Rods become active and cones inactive. (d) Cones become active and rods inactive.</p> <p style="text-align: right;">[Understanding & Analysis]</p>
21.	<p><i>[Plant Physiology]</i></p> <p>A cell of a leaf of an aquatic plant is kept in a 5% salt solution for some time. The phenomenon which will take place is/are:</p> <p>(a) turgidity (b) plasmolysis (c) turgidity and flaccidity (d) plasmolysis and flaccidity</p> <p style="text-align: right;">[Application]</p>


II: Fill In the Blank Type (1 Mark Each)


S.No.	Questions
22.	<p><i>[Plant Physiology]</i></p> <p>Osmosis is controlled by the concentration of _____ molecules. [Analysis]</p>
23.	<p><i>[Plant Physiology]</i></p> <p>An animal cell is kept in a lower solute concentration fluid. The cell will _____. (Enlarge / Shrink) [Application]</p>
24.	<p><i>[Plant Physiology]</i></p> <p>Plants absorb water from the roots because the cell sap is _____ (more, less) concentrated than the surrounding fluids. [Analysis]</p>

S.No.	Questions
25.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Human red blood cells, when kept in a hypertonic solution, _____ occurs. (Osmosis, endosmosis, exosmosis) [Application]</p>
26.	<p><i>[Plant Physiology]</i></p> <p>Given below is an experimental setup. Read the information given below the diagram and answer the questions from 26-30.</p> <div data-bbox="555 551 1075 965" style="text-align: center;"> </div> <p>Concentrated sugar solution is taken in the thistle funnel. The mouth of the thistle funnel is covered with cellophane paper. The thistle funnel is inverted in a beaker containing water.</p> <p>The above experiment demonstrates _____ [Recall]</p>
27.	<p><i>[Plant Physiology]</i></p> <p>After a few hours, the level of the sugar solution _____ in the thistle funnel. [Understanding]</p>
28.	<p><i>[Plant Physiology]</i></p> <p>It allows only _____ molecules to pass through it freely. [Application]</p>
29.	<p><i>[Plant Physiology]</i></p> <p>It prevents the passage of _____ molecules. [Application]</p>
30.	<p><i>[Plant Physiology]</i></p> <p>A control experiment can be set up by taking plain _____ in the thistle funnel and placing it in another beaker containing water. [Application]</p>


III: Short Answer Questions (2 Marks Each)

S.No.	Questions
31.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Haemorrhage frequently happens in viral dengue fever. Compare this condition with haemophilia. [Evaluate]</p>
32.	<p><i>[Plant Physiology]</i></p> <p>Differentiate in the rate of photosynthesis for the increase in temperature.</p> <p>(a) 20° to 30°C (b) 40°C to 50°C [Analysis]</p>
33.	<p><i>[Basic Biology]</i></p> <p>Name the nitrogenous base with which Guanine pairs up in the helical structure of DNA and through how many hydrogen bonds? [Understanding]</p>
34.	<p><i>[Human Anatomy and Physiology]</i></p> <p>When an irritant enters the nose, a sneezing reflex happens. Identify the stimulus and the response. [Application]</p>
35.	<p><i>[Basic Biology]</i></p> <p>An atomic explosion in 1945 in Japan led to a large number of persisting deformities in the bodies of plants and animals. What might have happened? [Analysis]</p>
36.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Why is a bicuspid valve in the human heart named so? [Understanding]</p>
37.	<p><i>[Plant Physiology]</i></p> <p>Under which condition does a leaf take carbon dioxide from the atmosphere? [Analysis]</p>
38.	<p><i>[Human Anatomy and Physiology]</i></p> <p>A pregnant lady is suffering from viral fever. Will the foetus be infected? [Analysis]</p>
39.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Why the blood flows through the glomerulus under great pressure? [Understanding]</p>
40.	<p><i>[Basic Biology]</i></p> <p>Differentiate between genotype and phenotype. [Analysis]</p>
41.	<p><i>[Pollution]</i></p> <p>The number of asthma patients increases during winters in metropolitan cities like Delhi. Why is it so? How can it be reduced? [Analysis]</p>

S.No.	Questions
42.	<p><i>[Population]</i></p> <p>In our country, the infant mortality rate is high, but the population is still increasing in India. Explain. [Analysis]</p>
43.	<p><i>[Human Evolution]</i></p> <p>Justify the statement – “Vermiform appendix is a vestigial organ in humans.” [Evaluate]</p>
44.	<p><i>[Human Anatomy and Physiology]</i></p> <p>What is Adrenal Virilism? [Understanding]</p>
45.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Explain the function of corpus luteum when:</p> <p>(a) ovum is fertilised. (b) ovum is not fertilised. [Evaluate]</p>
46.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Shruti’s mother gave birth to two male babies. Both the babies had a strong resemblance to each other. The doctor said that they have been formed from a single ovum.</p> <div style="text-align: center;">  </div> <p>(a) What kind of twins are they? (b) Why are they of the same gender? [Analysis & Application]</p>
47.	<p><i>[Human Anatomy and Physiology]</i></p> <p>State the effect of Adrenaline on:</p> <p>(a) Pupils of eyes (b) Heartbeat [Application]</p>
48.	<p><i>[Human Anatomy and Physiology]</i></p> <p>When is albumin passed out in urine? Name this condition. [Understanding]</p>
49.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Mention the significance of the Testes being located inside the scrotum. [Understanding & Application]</p>

S.No.	Questions
50.	<p><i>[Population]</i></p> <p>Give <i>two</i> examples of natural resources which cannot keep pace with the rising population. [Analysis & Recall]</p>
51.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Keshav enters a dark room from a brightly lit area. He experiences difficulty in viewing objects, but gradually his vision improves.</p>  <p>Explain the role of the photoreceptors in this case. [Analysis & Application]</p>
52.	<p><i>[Human Anatomy and Physiology]</i></p> <p>On a winter night, a group of workers slept in a closed room, having a burning furnace to keep themselves warm. Most of them died in their sleep. What is the reason for their fatality? [Understanding & Analysis]</p>

IV: Long Answer Questions (3 Marks Each)

S.No.	Questions
53.	<p><i>[Human Anatomy and Physiology]</i></p> <p>Rohit's father has increased thirst and hunger with frequent urination. He also gets fatigued very often. His doctor advised him to get a blood sugar profile done.</p>  <p>(a) Name the disease based on the symptoms given above. (b) Name the hormone whose deficiency causes this disorder. (c) What is the technical term for high blood sugar level? [Understanding & Analysis]</p>

54. *[Human Anatomy and Physiology]*

Farhan's classroom is very close to the compound wall of his school. He was observing two pigeons sitting on the wall. He could see one bird clearly, but the image of the second bird was blurred as the pigeon was a little away from the first.



- Name the defect of the eye Farhan is suffering from.
- Where is the image of the second pigeon formed in his eyeballs?
- What lens can be used to correct the defect?

[Analysis & Application]

55. *[Human Anatomy and Physiology]*

Manoj was writing a composition on "The importance of Education in life".

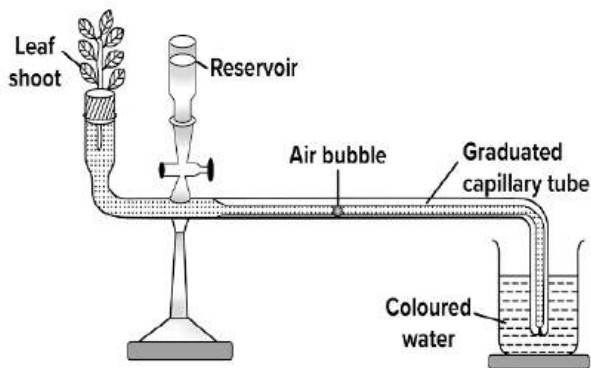


- Name the part of the brain that Manoj uses for writing the composition.
- Is it a voluntary or involuntary action?
- Trace the nervous pathway using the following terms:
Muscles of the hand, Sensory nerves, Fingertips, Motor nerves, and Brain.

[Recall & Application]

56. *[Plant Physiology]*

Study the diagram given below and answer the questions that follow:



- (a) Identify the apparatus.
- (b) What is it used to measure?
- (c) Mention any one limitation of using the apparatus.

[Analysis]

57. *[Plant Physiology]*

The statements given below are false. Correct and rewrite the complete statements:

- (a) Fruit ripening is induced by Absciscic acid.
- (b) Roots show negative Hydrotropism.
- (c) Thigmotropism can be demonstrated by using a Clinostat.

[Analysis]

58. *[Basic Biology]*

Two heterozygous pea plants having round seeds (Rr) are crossed with each other.

- (a) Write the Phenotypic ratio of the offspring.
- (b) What will the genotypic ratio of the offspring be?
- (c) Which of the above two traits is recessive?

[Analysis & Application]

59. *[Plant Physiology]*

How is the rate of transpiration affected under the following environmental conditions:

- (a) High temperature
- (b) Low humidity
- (c) Low intensity of sunlight

[Analysis & Understanding]

Answer Key

S.No.	Expected Answers
1.	(a) Noise pollution
2.	(b) Pancreas
3.	(c) Both A and R are true
4.	(c) Colour blindness
5.	(d) Plasmolysis
6.	(a) poisoning by the accumulation of high quantities of urea in the body.
7.	(c) metaphase, anaphase
8.	(a) equal to that of blood
9.	(c) At the time of the stress, fewer hormones are released into the blood.
10.	(b) A is False, and R is true
11.	(b) ii and iii
12.	(c) ATP
13.	(c) iii, ii, iv, i
14.	(c) C
15.	(a) A is True, and R is false
16.	(b) A is False, and R is true
17.	(b) P and Q
18.	(a) Air pollution
19.	(a) P and R
20.	(d) Cones become active and rods inactive.
21.	(d) plasmolysis and flaccidity
22.	water
23.	enlarge
24.	more

S.No.	Expected Answers
25.	exosmosis
26.	osmosis
27.	rises/increases
28.	water
29.	Sugar
30.	water
31.	In viral dengue fever, the number of platelets falls to a very low count, and coagulation occurs, leading to haemorrhage. While haemophilia is a genetic disorder in which blood does not clot properly.
32.	(a) The rate of photosynthesis gets doubled. (b) Photosynthesis stops.
33.	Cytosine, 3 H-bonds
34.	Stimulus – Irritant Response – Sneezing
35.	The mutation alters the hereditary material of an organism's cells.
36.	It has two flaps.
37.	When the concentration of CO ₂ is higher outside the leaf than inside.
38.	No, the placenta does not allow the passage of germs from the mother to the foetus.
39.	The efferent (outgoing) arteriole is narrower than the afferent (incoming) arteriole. So, pressure increases.
40.	Genotype is the combination of genes, and phenotype is the expressed character.
41.	Smog (smoke + fog) leads to asthma. Air pollution causes respiratory problems. Installation of tall chimneys with filters in factories, electrostatic precipitators.
42.	People from the economically weaker sections think it is safer to produce more children so that at least some may survive.
43.	The vermiform appendix projects from the blind end of the caecum (a part of large intestine) as a narrow wormlike tube. It is a functionless (vestigial) organ in humans although its corresponding organ in herbivore mammals (like sheep) helps in digesting cellulose.
44.	A condition where overgrowth of the adrenal cortex in a mature woman results in the development of certain male characteristics like a beard, moustaches and deep voice.

S.No.	Expected Answers
45.	(a) Corpus luteum releases progesterone and keeps the uterus in a state suitable for implantation. (b) The Corpus luteum stops producing progesterone.
46.	(a) Identical twins (b) Since they develop from a single fertilized ovum (zygote) and the gender of the twins is determined at the time of fertilisation.
47.	(a) Pupils dilate (b) Heartbeat increases
48	Due to high blood pressure, or due to increased permeability of the bowman's capsule membrane on account of bacterial infection, albumin may be passed out via urine. Albuminuria
49.	To maintain a temperature of 2-3°C less than body temperature for sperms to mature. Protect testes from injuries.
50.	Food, Water
51.	Rhodopsin gets bleached in bright light. It takes a few seconds for it to regenerate in dim light. Then, the vision improves. Iodopsin does not function in dim light.
52.	Burning furnace emits CO. It combines with haemoglobin to form a stable compound, Carboxyhaemoglobin, which cuts off the supply of oxygen to tissues.
53.	(a) Diabetes mellitus (b) Insulin (c) Hyperglycemia
54.	(a) Myopia (b) In front of the retina (c) Concave
55.	(a) Cerebrum (b) Voluntary (c) Fingertips, Sensory nerves, Brain, Motor nerves, Muscles of hand
56.	(a) Ganong's Potometer (b) To measure the water uptake by the cut shoot, hence the rate of transpiration (c) Difficult to introduce an air bubble
57.	(a) Fruit ripening is induced by Ethylene/ Senescence and falling of leaves is induced by Abscisic acid. (b) Shoots show negative Hydrotropism, / Roots show negative Phototropism. (c) Geotropism can be demonstrated by using a Clinostat.
58.	(a) 3 : 1 (b) 1 : 2 : 1

S.No.	Expected Answers
	(c) Wrinkled seeds
59.	(a) More Transpiration (b) More Transpiration (c) Less Transpiration



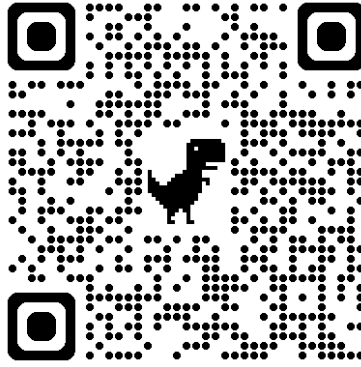


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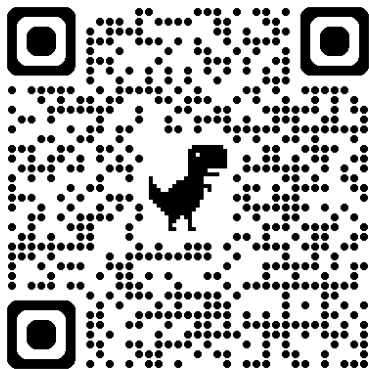
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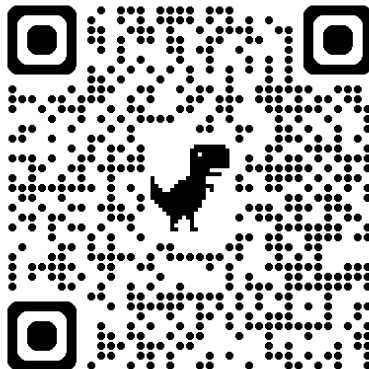
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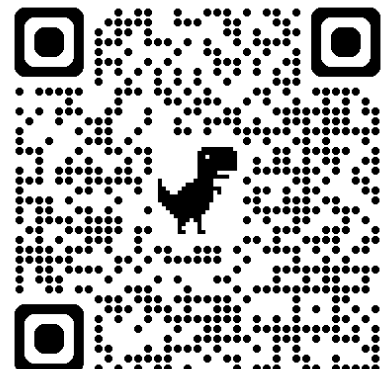
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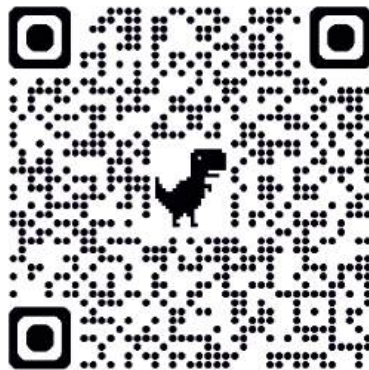
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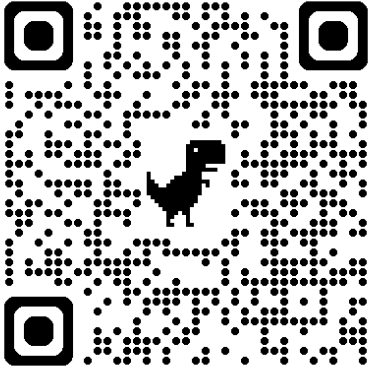
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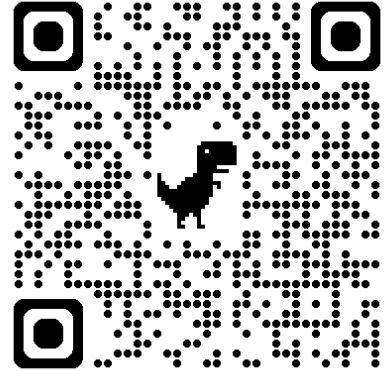
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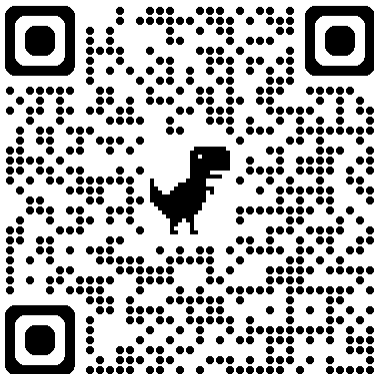
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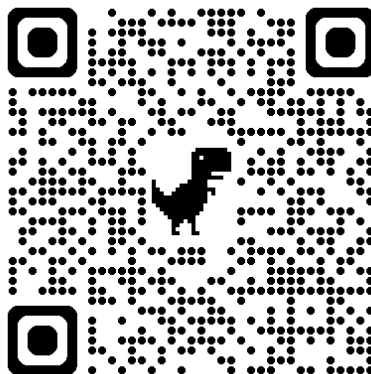
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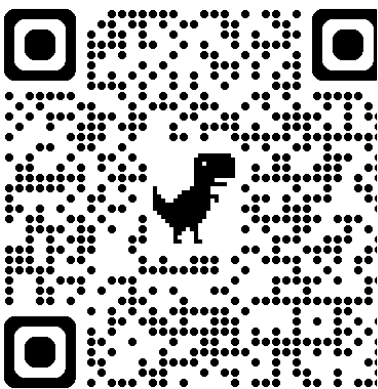
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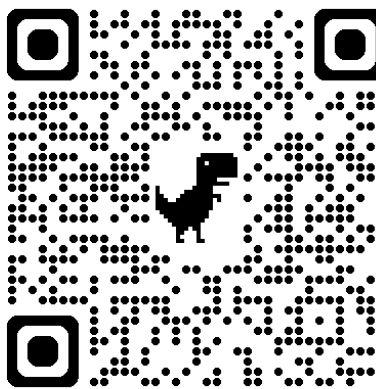
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