# THE BRIGADE SCHOOL

Total points 27/40



CLASS: 10

MAX MARKS: 40

UNIT TEST 2

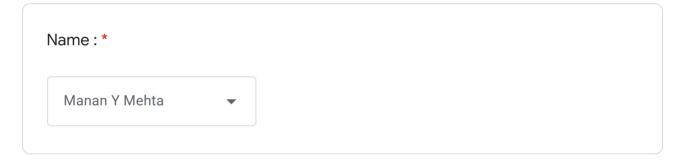
SUBJECT: BIOLOGY DURATION: 30 mins

Email address *	
manantbsg@gmail.com	

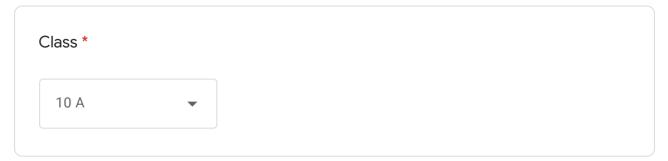
# **INSTRUCTIONS:**

0 of 0 points

- 1. Fill in your valid email id and select your name correctly.
- 2. Select your school and section correctly.
- 3. Attempt all the questions.
- 4. Ensure that you have completed and revised your paper before submission.
- 5. You can attempt your paper only once





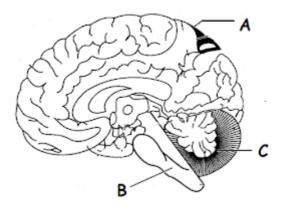


Answer the following

27 of 40 points

<b>✓</b>	1. Name the following: Organ where urea is synthesized in the body. *	1/1
0	kidneys	
	liver	<b>✓</b>
0	spleen	
	2. In aA the solution outside the cell has higher solute concentration than the fluids inside the cell. Therefore, water flows out from the plant cell due toB The cytoplasm shrinks and the plasma membrane withdraws away from the cell wall and this the cell becomesC*	1/1
$\bigcirc$	A- hypotonic solution B- exosmosis C- turgid	
	A- hypertonic solution B- exosmosis C- flaccid	<b>~</b>

✓ 3. Associate the labelled part of the human brain in the diagram given below with their respective functions \* 1/1



- A- seat of memory B- controls activities of internal organs C- coordinates muscle 
  activity
- A- coordinates muscle activity B- controls activities of internal organs C- seat of memory
- A- seat of intelligence B- regulates body temperature C- coordinates muscle activity
- ✓ 4. Pick the logical sequence from the following with respect to absorption of water by the roots: \*
- Xylem, Epidermis, Cortex, Endodermis, Root hair
- Root hair, Cortex, Endodermis, Epidermis, Xylem
- Root hair, Epidermis, Cortex, Endodermis, Xylem

/

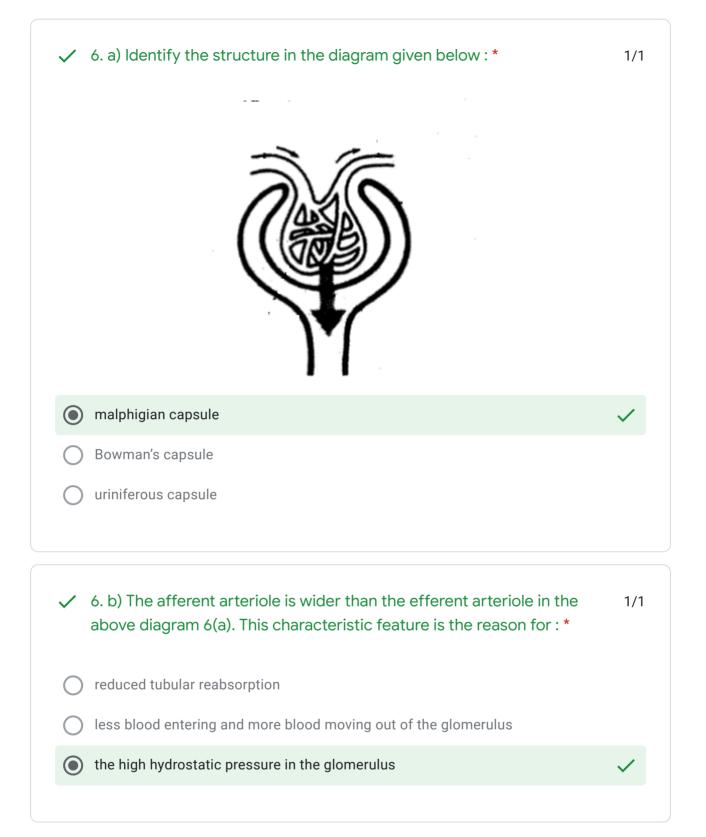
✓ 5. Which of the following statements is true? \*

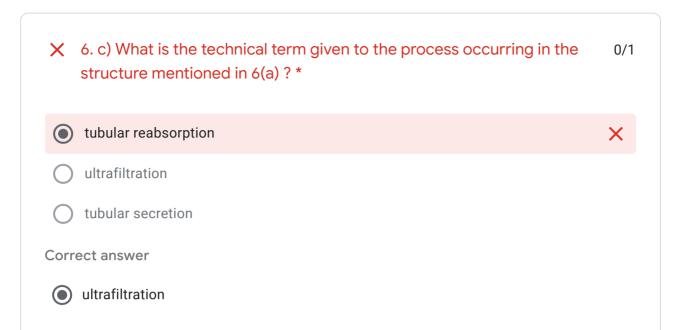
1/1

- nerve is a bundle of cytons of separate neurons enclosed within a tubular sheath
- conduction of neve impulse is a wave of depolarization followed by repolarization

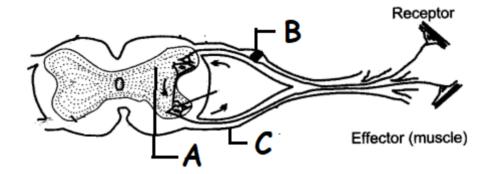
**✓** 

receptors are muscles or glands that contract or secrete on receiving signal from the brain





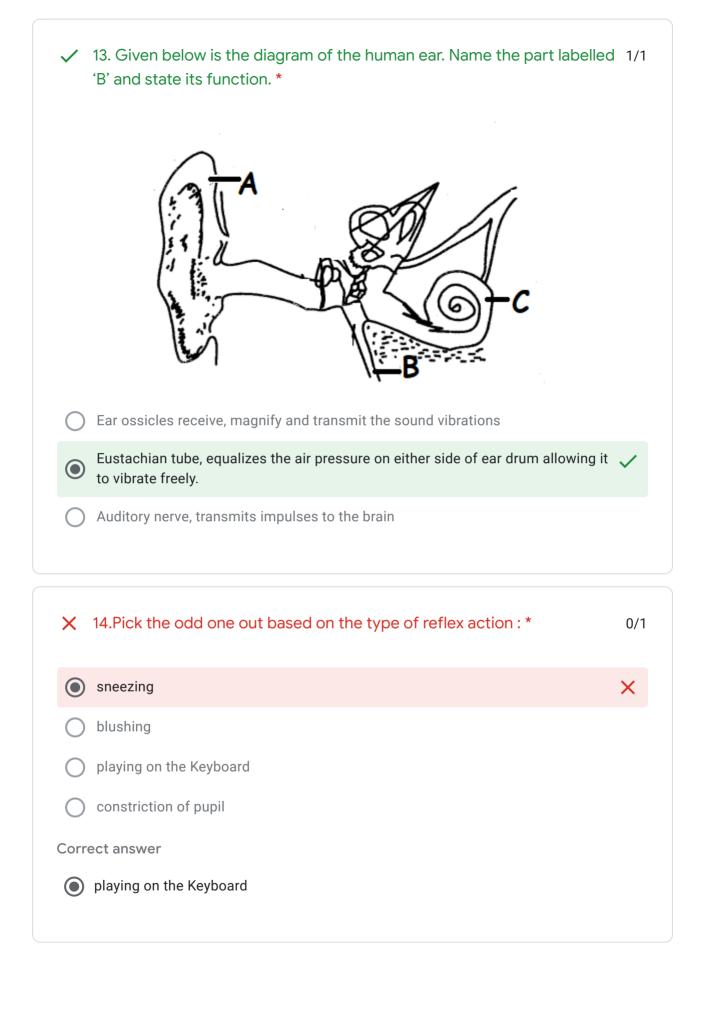
7. The diagram given below represents the section of the spinal cord of a 1/1 mammal, pick the correct labelling for A,B and C. \*



- A- White matter B- Dorsal ganglion C- Ventral root
- A- Gray matter B- Dorsal ganglion C- Dorsal root
- A- Gray matter B- Dorsal ganglion C- Ventral root

×	8. The pressure developed due to inward movement of water through cell-cell osmosis within root cells is : *	0/1
•	turgor pressure	×
0	wall pressure	
0	root pressure	
Corr	ect answer	
•	root pressure	
<b>✓</b>	9. What is meant by power of accommodation of the eye? *	1/1
	The process of adjusting the focal length of the lens according to the near or distant objects.	<b>~</b>
0	The capacity to perceive a three-dimensional image due to simultaneous focusing both eyes on an object	of
$\circ$	The flexibility of the lens declines, and the lens becomes less convex or opaque leading to weakness of eyesight	
<b>✓</b>	10. Pick the logical sequence from the following based on reflex arc : *	1/1
0	receptor, stimulus, sensory neuron, motor neuron, CNS	
	stimulus, receptor, sensory neuron, CNS, motor neuron	<b>~</b>
0	stimulus, receptor, CNS, sensory neuron, motor neuron	

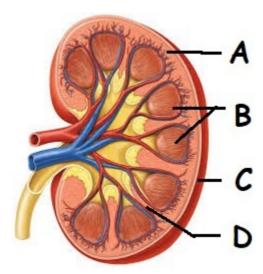
11. Pick the odd one out: *	1/1
proximal convoluted tubule	
henle's loop	
o corpus callosum	<b>✓</b>
glomerulus	
12. The phenomenon by which living or dead plant cells absorb v surface attraction is called*	vater by 1/1
girdling	
guttation	
imbibition	<b>~</b>



<b>✓</b>	15. Leaves of the sensitive plant wilt and droop down on a slight touch. What mechanism brings about this change? *	1/1
•	turgor movement	<b>✓</b>
0	transpiration pull	
0	exudation	
×	16. Which among the following is not a true statement ? *	0/1
0	Urine is yellow in colour due to the presence of a pigment urochrome, formed due breakdown of haemoglobin of old R.B.Cs.	to
•	Urine is formed from alkaline blood, but it is acidic in nature	×
0	The urine is slightly thicker in winter than in summer	
Corr	ect answer	
•	The urine is slightly thicker in winter than in summer	
×	17. Which among the following is not an example for plasmolysis in practice? *	0/1
0	salting of meat to kill bacteria	
•	killing of weeds in a playground by sprinkling excess salt	×
0	roots of trees crack the walls of an adjoining building	
Corr	ect answer	
•	roots of trees crack the walls of an adjoining building	

✓ 18. a) In the given diagram the region labelled A shows a dotted appearance in the sectional view as: \*





- the Bowman's capsule and proximal convoluted tubules lie in this region

- the loop of Henle is distributed in this region
- the blood vessels arise from this region
- X 18. b) Identify the correct label for the diagram in Q.18(a): \*

0/1

- A- renal medulla B-renal pyramids C-renal cortex D- renal column
- A- renal capsule B-renal pyramids C-renal cortex D- renal pelvis



A- renal cortex B-renal pyramids C-renal capsule D- renal column

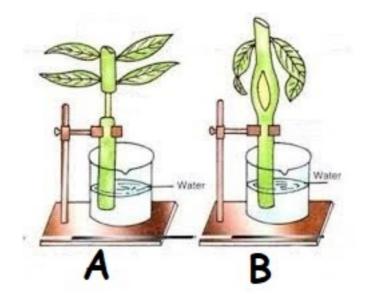
#### Correct answer

A- renal cortex B-renal pyramids C-renal capsule D- renal column

X 18. c) A part of the kidney that is rich in urea is : *	0/1
renal artery	
renal vein	
renal pyramid	×
Correct answer	
renal artery	
✓ 19. Which of the following is an action of the parasympathetic system ?	? * 1/1
blood vessels dilated	
odryness of mouth	
retards heart beat	<b>✓</b>
✓ 20. Pick the correct arrangement of the following terms in a logical sequence on the basis of parts of the urinary system from first to last through which blood gets filtered and urine is excreted. *	1/1
Renal artery, kidney, ureter, urinary bladder, urethra	<b>✓</b>
Renal vein, kidney, urethra, urinary bladder, ureter	
Renal artery, kidney, urethra, urinary bladder, ureter	

★ 21. Which among the following is not an appropriate reasoning for the end result of the experiment given below? \*





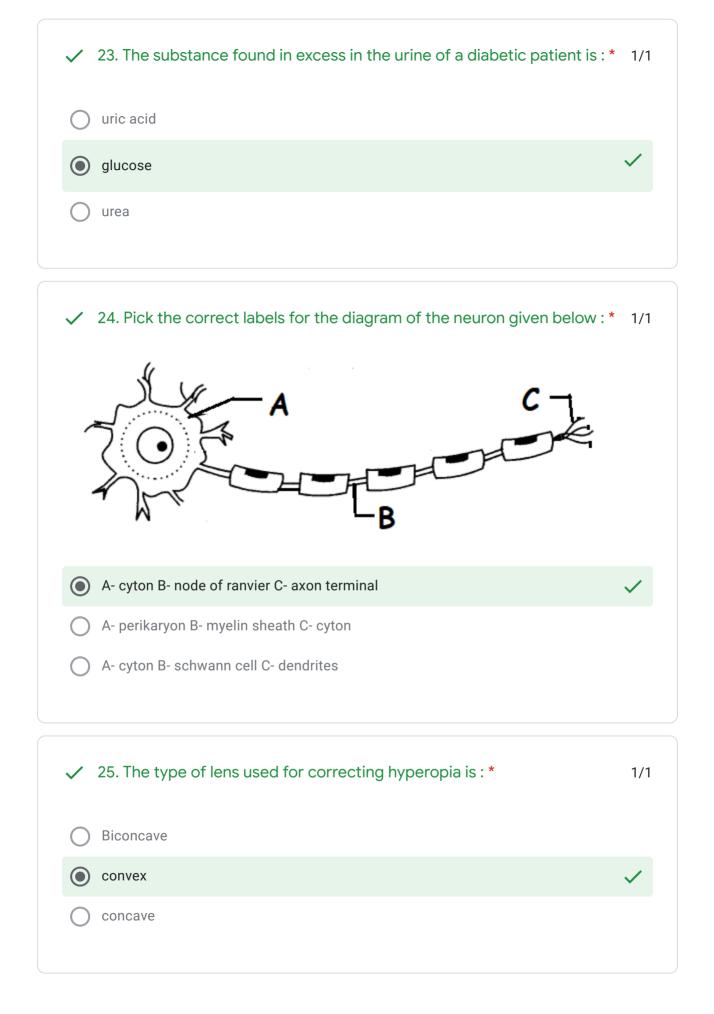
- leaves in the second twig B wilts and droops down due to incised xylem
- leaves in the first twig A remain turgid and stand out normal due to intact xylem
- leaves in the second twig B wilts due to incised phloem and intact xylem

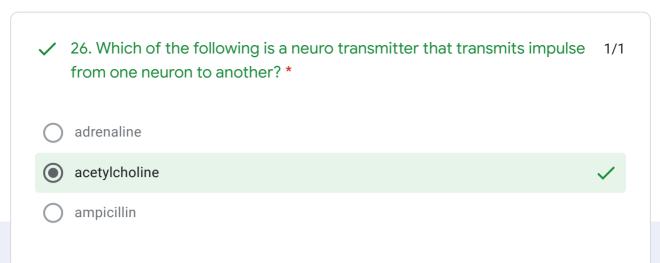
## Correct answer

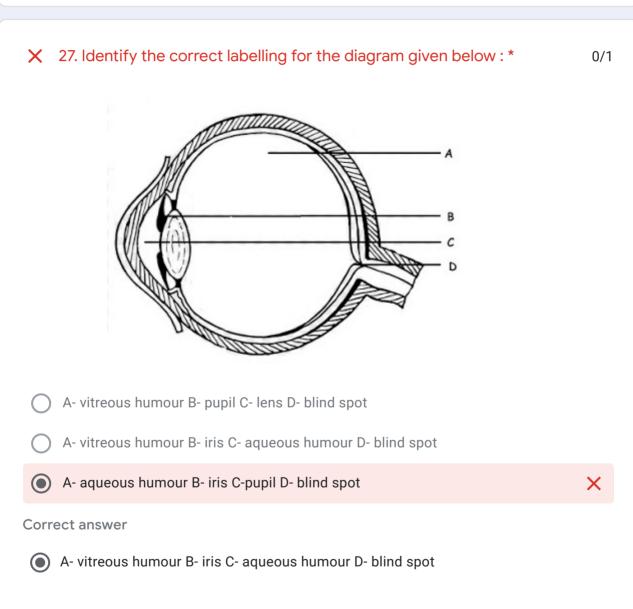
- leaves in the second twig B wilts due to incised phloem and intact xylem
- 22. State whether True or False: Deafness is caused due to rupture of ear 0/1 pinna. \*
- True
- False

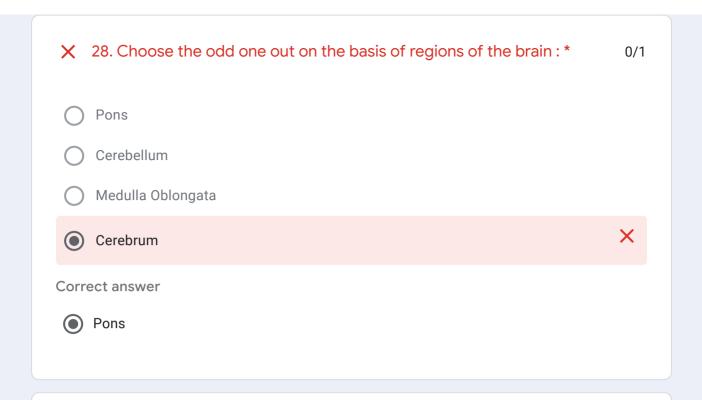
### Correct answer

False

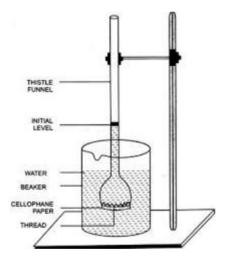








29. a) Pick the correct definition of the process demonstrated in the given experiment. \*



- passage of salts or ions from a region of its lower concentration to a region of its higher concentration using energy through a living membrane.
- movement of molecules from a region of higher concentration to a region of lower concentration when the two are in direct contact
- movement of water molecules from a region of its higher concentration to a region of its lower concentration across a semi permeable membrane

×	29. b) Which among the following could be set up as control for experiment Q.29 (a) ? *	0/1
	taking sugar solution of the same concentration in both the funnel and beaker	×
0	instead of the sugar solution, the thistle funnel also contains water just like in the beaker	
0	using muslin cloth instead of cellophane paper	
Corr	rect answer	
•	instead of the sugar solution, the thistle funnel also contains water just like in the beaker	
×	29. c) Keeping in mind the root- hair cell and its surroundings, name the parts that correspond to (A) concentrated sugar solution (B) cellophane paper and (C) water in the beaker, respectively from the experiment Q.29 (a). *	0/1
•	A- Cell sap within the root hair B- cell membrane of root hair C- water in the soil	×
0	A- water in the soil B- cell membrane of root hair C- Cell sap within the root hair	
0	A- fertilizer in the soil B- cell wall of root hair C- water within the root hair	
Corr	rect answer	
•	A- water in the soil B- cell membrane of root hair C- Cell sap within the root hair	

30. Match the following: *								
	semi ircular canals	blind spot	synapse	macula lutea	astigmatism	meninges	Score	
(i) a defect in which some parts of the object are seen in focus while others are blurred.	0	0	0	0		0	1/1	<b>~</b>
(ii) a gap between two adjoining dendrites or axons	0	0	•	0	0	0	1/1	<b>~</b>
(iii) most sensitive region of the retina	0	0	0	•	0	0	1/1	<b>✓</b>
(iv) part of the ear associated with dynamic balance	•	0	0	0	0	0	1/1	<b>~</b>
(v) protective membranes around brain	0	0	0	0	0	•	1/1	<b>✓</b>
4								<b>→</b>

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