11/641/2016

SECOND TERMINAL EVALUATION - 2016-17 BIOLOGY

Standard - IX **Total Score: 40** Time: 1½ Hours Instructions 1. First 15 minutes is given as cool off time. This time is to be used for reading and understanding the questions. 2. Write down answers for all questions. 3. The score and time for each question should be considered while answering. 1. Which is the odd one? Write down the common features of the others. (2)a) Trachea, Lenticel, Pleura, Bronchi Abscission of leaves. Flowering, Heart wood formation, Hydathode b) 2. Analyse the statement and answer the questions. (2)"The structural peculiarity of afferent vessel and efferent vessel makes the process of filtration easy." a) How do afferent vessel and efferent vessel differ in their structure? b) Do you agree to the statement? Why? 3. Write the answers of the questions based on the terms given below. (3)Urea Amino acid Uric acid Haemoglobin . Urochrome Glucose Vitamins a) What are the factors not seen in urine? Which factor gives urine the light yellow colour? How is it formed? b) Rewrite the following statements related to dialysis correcting if there is any error in the underlined 4. part. (2)

- a) Blood from the veins is pumped into the dialysis unit.
- b) <u>Heparin</u> is added to prevent the coagulation of blood in the dialysis unit.
- c) Wastes from the blood diffuse into the dialysing fluid when the blood flows through the <u>cellophane tube</u>.
- d) Dialysis is the treatment method for kidney stone.
- 5. Choose items from B and C to match with A and rearrange the table.

ABCFishTracheidUric acidButterflyKidneysUreaMango treeMalpighian tubulesOxygenStomataAmmonia

(3)

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6. Analyse the disease symptoms and answer the questions.

Turbid urine

Back pain and fever

- Oedema in the face and ankles of foot
- a) Name the disease.
- b) Write the cause of the disease.
- 7A Analyse the figure and answer the questions.





- a) Which organs do A and B indicate?
- b) How do these organs participate in the process of excretion?
- c) Write down the name of other important excretory organ in the human body and its main function.

OR

7B. Evaluate the statement and answer the questions.

"Dust particles and germs reach the nasal cavity through the nose. However there are self protective mechanisms in the trachea and the alveoli."

- a) What are the mechanisms in the nasal cavity that prevent germs and dust particles?
- b) What are the self protective measures in the trachea and the alveoli?
- c) What are the health habits to be followed by us for the protection of the respiratory system?
- 8. Explain how the structure and peculiarity of the alveoli become helpful for gaseous exchange. (3)
- 9A. Analyse the flowchart and answer the questions.



Hint	
(1), (3) - Par	ts of cell
(2), (4) - Pro	ducts

- a) Which process does the flowchart indicate?
- b) Examine the hints and complete the flowchart.

OR

- B. Analyse the statements and answer the questions.
 - (i) Haemoglobin helps in the transport of oxygen.
 - (ii) Haemoglobin helps in the transport of oxygen and CO,
 - a) Which of these statements is more correct? Why?
 - b) How does the decrease in haemoglobin affect the body?

(4)

(3)

(2)

10.	lft Ho	he excess CO ₂ formed in the body is not eliminated in time, homeostasis will be disturb w?	ocd.
••			(2)
11.	Giv	ven below are two common activities in the kitchen.	(3)
		1. A spoon full of curd is added to milk.	
		2. A little yeast is added to batter.	
	a)	What will happen to the two after 5 – 6 hours?	-
	b)	Which process leads to these changes?	
	c)	What are the products formed in both the activities?	
12.	Ah	eadline in a newspaper on Antismoking Day is given below:	(3)
		Lives lost in Smoking!	
		Lattes lost in Shorting:	
	a)	Which organ does smoking seriously affect?	
	a) b)		o the
13.	b)	Which organ does smoking seriously affect? Prepare a note on two diseases affecting this organ due to smoking, to be added to) the (2)
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a) Which is the process that leads to the formation of water droplets in the bag that covered the – plant in the experiment?

(4)

b) How does this process help in the conduction of water through the stem?

15. Redraw the diagram and label the parts mentioned below.



a) The vessel that carries blood with high quantities of urine.

b) Tube that carries urine

c) Part from which urine passes to the filters.