



Quality Checkers
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XI-SCI : Biology
Excretion and Osmoregulation,

DATE:

TIME: 1 hour 30
minutes

MARKS: 25

SEAT NO:

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Note:-

1. All Questions are compulsory.
2. Numbers on the right indicate full marks.

Section A

Q.1 Select and write the correct answer.

(4)

1. The snakes living in the desert are mainly
A) Aminotelic B) ureotelic
C) ammonotelic D) uricotelic
2. Person suffering from kidney stone is advised not to take tomatoes as it has
A) Seeds B) Lycopene
C) Oxalic acid D) Sour taste
3. Which of the following statements are false?
A) Urea is less toxic and less water soluble than ammonia B) Ammonotelism is found in aquatic invertebrates
C) 3 ATP molecules are used to produce one molecule of urea D) None of the above
4. The minor calyx
A) collects urine B) connects pelvis to ureter
C) is present in the cortex D) receives column of Bertini

Q.2 Answer the following.

(3)

1. Define the Terms :
Urolithiasis :
2. When does urine appear deeply coloured?
3. Where are the kidneys located?

Section B
Attempt any Four

- Q.3 What is the composition of sweat? **(2)**
- Q.4 What is the significance of the values of albumin, blood cells, casts etc.?
(2)
- Q.5 How do thermoregulation and food habits affect waste production?
(2)
- Q.6 Short Answer Questions : **(2)**
What would happen if ADH secretion decreases due to reason?
- Q.7 Why high BP medicines are many a times diuretics? **(2)**
- Q.8 Why urinary tract infections are more common in females than males?
(2)

Section C
Attempt any Two

- Q.9 Why are kidneys called 'retroperitoneal'? (3)
- Q.10 These are blood reports of patients undergoing investigations for kidney function. (3)
(a) What is creatinine?
(b) What is your observation and opinion about the findings?
(c) Why is it used as an index of kidney function?
- Q.11 Like endothermic and ectothermic animals, do organisms differ in the way they maintain salt balance? (3)

Section D
Attempt any One

- Q.12 How do kidneys bring about homeostasis? Is there any role of neuroendocrine system in it? (4)
- Q.13 Describe the structure of a nephron. (4)