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d) Give a brief description of the process of inhalation and exhalation in a bony fish.

i) Inhalation

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ii) Exhalation.

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e) State how the gills of a fish are adapted to their function.

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2. A solution containing starch and amylase enzyme was put in a visking tube and the visking tube was placed in a boiling tube containing water which was maintained at 35°C as shown in the set up below. It was left to stand for 30 minutes.

After 30 minutes samples were drawn from the contents of the visking tube and boiling tube, then Iodine and Benedict's tests carried out on each of them.

a) Describe what was observed with iodine test on;

i. Visking tube contents

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ii. boiling tube content

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b) Explain your observation in (a) above

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c) Describe what was observed with benedicts test on

i) visking tube content

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ii) Boiling tube content

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d) Explain your results in (c)

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e. Giving reasons, state the nature of the visking tube.

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3. a. Define the following terms

i) Fertilisation

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ii) Implantation

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b. State the hormones that are involved in the control of the human menstrual cycle, in each case state where it is produced.

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c. State the role of each of the hormones mentioned in (b) above in the control of the menstrual cycle.

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4. a. Describe an experiment you would carry out to show that Osmosis occurs in living tissues.

b. Outline the significance of Osmosis to plants and animals.

**END**