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Ministry of Education

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General Certificate of Education (Adv. Level)

Biology II

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Part II Essay

Write answers for 4 questions only

- 1) I) Briefly explain, what is a photosystem.
II) Explain the role of photosystem on light depended reaction
- 2) I) Draw a line diagram to illustrate the cross section of primary dicot root
II) Explain the process of transportation of soil solution which is absorbed by root hair to the xylem in root
- 3) I) Explain briefly, what is feedback mechanism
II) Explain the homeostatic osmo regulation in human
- 4) Briefly explain the role of DNA, RNA and respective enzymes on synthesis of polypeptide in eukaryotic cells
- 5) I) Explain the contamination routes and its effects on fresh water reservoirs
II) Briefly explain the steps in urban drinking water purification
- 6) Write short note on following topic
 - I) Human Sternum
 - II) Tundra biome
 - III) Environmental impact of ornamental fish culture