Q.1. Classify the following vitamins into fat or water soluble categories?
(a) Vitamin A
(b) Thiamin
(c) Folate
(d) Vitamin C
(e) Vitamin B₁₂

Ans: 
Fat soluble: Vitamin A
Water soluble: Thiamin, Folate, Vitamin C, Vitamin B₁₂

Q.2. State the cofactor associated and function of the following vitamins?
(a) Lipoic acid
(b) Nicotinic acid
(c) Pyridoxine
(d) Pantothenic acid

Ans: The rate of reaction is enhanced by many factors. Active site assists by:
(a) Lipoamide
(b) Nicotinamide adenine dinucleotide (NAD+); Nicotinamide adenine dinucleotide phosphate (NADP+);
(c) Pyridoxal phosphate
(d) Coenzyme A

Q.3. State what do these abbreviations stand for? Name corresponding vitamins
(a) FAD
(b) NADP⁺
(c) THF
(d) TPP

Ans: 
(a) FAD: Flavin adenine dinucleotide; Vitamin B2 (riboflavin)
(b) NADP⁺: Nicotinamide adenine dinucleotide phosphate; Nicotinic acid
(c) THF: Tetrahydrofolic acid; Folic acid
(d) TPP: Thiamine pyrophosphat e; Vitamin B1 (Thiamine)

Q.4. Name the vitamins associated with the following diseases?
(a) Beriberi
(b) Scurvy
(c) Pellagra
(d) Night blindness

Ans: (a) Thiamine (b) Vitamin C (c) Niacin (d) Vitamin A