| (ii) | Name | the | following |
|------|------|-----|-----------|
|------|------|-----|-----------|

- (a) Two water soluble vitamins
- (b) Mineral responsible for oxygen carriage
- (c) Vitamin responsible for vision cycle
- (d) Mineral responsible for ossification of bones.

4

M.Sc. Home-Science (Food Science and Nutrition) Semester—II Examination NUTRITIONAL BIOCHEMISTRY Subject Code—122 NB 51

| Time—Two Hours] | | | ours] [Total Marks—45 |
|-----------------|------|-------|--|
| | Not | e : | ALL questions are compulsory. |
| 1. | Ans | wer a | any ONE: |
| | (i) | requ | lain the factors affecting energy expenditure and irements. Explain the estimation of energy irement of painter. |
| | (ii) | requ | ine and explain the components of energy airements. Explain the estimation of energy pairement of a family. |
| 2. | (i) | Fill | in the blanks: |
| | | (a) | Monomeric unit of polysachharide starch is |
| | | (b) | The end product of glycolysis in anaerobic condition is |
| | | (c) | Renal threshold value is 1 |
| | | (d) | Synthesis of glycogen from glucose is called |
| | | (e) | Normal blood glucose level is 1 |

| (ii) | Wri | rite true or false : | | | | | | (e) | Transfer of amino group from amino acid to | | | | | |
|---------|-----|--|---------------------|--------------|----------------|------|--------|-------------------|--|------------|-------------|-----------|-----------|--|
| | (a) | Fructose is a starch. | monomeric | unit of poly | sachharide | | | ` ' | Keto acid is called | | | | | |
| | (b) | Kreb cycle i | s also calle | d TCA evel | le. 1 | | | | (i) Deamination | (ii |) Transan | nination | | |
| | (c) | Blood glucos hyperglycem | e level abov | • | | | | | (iii) Urea cycle | (i | v) Transmo | ethylatic | on l | |
| (d) | (d) | Carbohydrat | | ed in the be | ody in the | | (ii) | Nar | me the following: | | | | | |
| | CI | | form of glycogen. 1 | | | | | (a) | Any one conjugated protein | | | | | |
| | | oose appropriate answer : Break down of protein will give : | | | | | | (b) | Any one essential amino acid | | | | | |
| (6 | (a) | (i) Fatty ac | | i) Glycerol | 1 | | | (c) | End products of urea cycle | | | | | |
| | | (iii) Amino | . ` | v) Glucose | | | | (d) | Any one Polysacch | naride. | | | 4 | |
| | (b) | Removal of amino group from amino acid is | | | | s 4. | | swer any ONE: | | | | | | |
| | | called: (i) Deamina | ation (i | i) Transam | ination | | (i) | Exp | lain the Ketosis and | break | down of tri | glycerid | les. 9 | |
| | | (iii) Decarbo | Decarboxylation (iv | v) Transme | thylation 1 | | (ii) | | e the reactions of | | acid oxid | lation a | and | |
| (c) | | In the urea cycle the by-product removed with ammonia is: | | | | 5. | (i) | | lesterol biosynthesis. 9 | | | | | |
| (0 | | (i) O ₂ | (i |) NO, | | 5. | (i) | | ch the following: | <i>(</i>) | 's 2" . TF | | | |
| | | (iii) CO, | · | v) SO, | 1 | | | (1) | Rickets | | Vit K | | | |
| | (d) | Sulphur cont | · | . 4 | | | | (2) | Scurvy | (b) | Vit D | | | |
| | | (i) Leucine (ii |) Glycine | | | | (3) | Blood coagulation | (c) | Iron | | | | |
| | | (iii) Alanine | (ir | v) Cystine | 1 | | | (4) | ATP | (d) | Vit C | | | |
| | | | | | | | | (5) | Anaemia | (e) | Phosphoru | S | 5 | |
| UBS-113 | 243 | | 2 | | (Contd.) | UBS | -11-32 | 243 | .3 | | | (Cont | td.) | |

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