| \mathbf{C} | OP7 | (97) | n . | Α |
|--------------|-----|------|-----|---|
| v | 27 | O1 | Z". | А |

(Pages: 1 + 2 = 3)

| Name | | |
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Reg. No.....

FIRST PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, MAY/JUNE 2012

BIOCHEMISTRY—Paper II

(New Scheme)

Time: Three Hours

Maximum: 50 Marks

Answer Sections A and B in separate answer-books.

Answer all questions.

Draw diagrams wherever necessary.

MCQ's should be answered first in the response sheet provided.

Section A

I. Multiple Choice Questions. Single response type-10, on separate sheets. $(10 \times \frac{1}{2} = 5 \text{ marks})$

II. Discuss in detail about absorption and transport of iron. Add a note on iron deficiency anemias.

(7 + 3 = 10 marks)

III. (a) Write the salient feature of genetic code.

(b) Discuss the renal mechanism of regulation of blood pH.

 $(2 \times 5 = 10 \text{ marks})$

Section B

- IV. Write short notes on:
 - (a) Rickets.
 - (b) Mitochondrial DNA.
 - (c) Post translational modifications.
 - (d) Enzyme linked immuno-sorbant assay.
 - (e) Regulation of gene expression by gene rearrangement.

 $(5 \times 3 = 15 \text{ marks})$

- V. Write briefly on:
 - (a) TATA box.
 - (b) Folate trap.
 - (c) Anti metabolites.
 - (d) Lesch Nyhan syndrome.
 - (e) Selenium containing enzymes.

 $(5 \times 2 = 10 \text{ marks})$

BIOCHEMISTRY—Paper II

I. MULTIPLE CHOICE QUESTIONS

Note.—(1) Do not write anything on the question paper.

| | (2) Write your register number | on the an | swer-sheet provided. | | |
|--|--|-----------|---|--|--|
| | (3) Select the appropriate and in the answer-sheet provide | | encircle the alphabet against each question numbe | | |
| | (4) In the answer-sheet enter provided. | the total | number of your answers in the appropriate bo | | |
| | (5) Each question carries ½ mo | ark. | to a finch one of the imposition is an inhibitor. | | |
| 1. | Sulphur containing B complex vitamin | n is: | (C) Salt deplotion. | | |
| | (A) Pyridoxine. | (B) | Thiamine | | |
| | (C) Niacin. | (D) | Riboflavin. | | |
| 2. | Which one of the following is not related to p53 protein? | | | | |
| | (A) Phospho protein. | (B) | Product of proto oncogene. | | |
| | (C) Half life is 5-10 minutes. | (D) | Gene is in chromosome No 17. | | |
| 3. | Which one of the following is related to Z-DNA is? | | | | |
| | (A) Right handed DNA. | (B) | Left handed DNA. | | |
| | (C) Circular DNA. | (D) | Biologically predominant DNA. | | |
| 4. | First position nitrogen both in purine and pyrimidine are formed from: | | | | |
| | (A) Glutamic acid. | (B) | Asparticacid. | | |
| | (C) Glutamine. | (D) | Glycine. | | |
| 5. | Metabolic alkalosis occur in the following conditions except: | | | | |
| | (A) Renal failure. | (B) | Cushing syndrome. | | |
| | (C) Diuretic therapy. | (D) | Severe vomiting. | | |
| 6. Porphyria cutanea tarda is due to deficiency of the enzyme: | | | | | |
| | (A) CPG oxidase. | (B) | Ferrochelatase. | | |
| | (C) UPG decarboxylase. | (D) | PBG deaminase. | | |
| 7. | Non heme iron containing protein is: | | | | |
| | (A) Phenyl alanine hydroxylase. | (B) | Cytochrome C. | | |
| | (C) Catalase. | (D) | Nitric oxide synthase. | | |