TDP (General) 1st Semester Exam., 2017

HUMAN PHYSIOLOGY

(General)

FIRST PAPER

Full Marks: 40

Time: 2 hours

The figures in the margin indicate full marks for the questions

Candidates are required to give their answers in their own words as far as practicable

- (i) What is active transport? Give an (a) example.
 - (ii) Discuss about different phases of cell cycle.
 - (iii) Write down the differences between (1+1)+4+4=10 mitosis and meiosis.

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- (i) Describe the structure and function (b) of endoplasmic reticulum.
 - (ii) Write down the names of different joints and their functions in human body.
 - (3+2)+(2+2)+1=10 and Define necrosis.

(Turn Over)

- 2. (a) (i) How does pH differ from cH? What do you mean by homeostasis?
 - (ii) What is 'surface tension? Mention its physiological importance.
 - (iii) Write down the basic principle of (2+2)+(1+2)+3=10 electrophoresis.

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- (i) What are protective colloids? State its physiological importance.
 - biological (ii) Discuss the major applications of radioisotopes.
 - (iii) Write down four radiation hazards (1+1)+4+4=10 on human subject.
- (i) What is 'purpura? 3. (a)

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- (ii) Mention how hypoxia and vitamin B₁₂ influence erythropoiesis.
- precautionary (iii) Mention four. measures to be taken before blood 2+4+4=10 transfusion.

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Mention What is ESR? (b) physiological significance.

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- (ii) What is ocdema? Mention its causes.
- (iii) Define MCV and MCHC. Write down the physiological significance of bleeding time. (1+2)+(1+2)+(2+2)=10
- 4. (a) (i) What is 'sozyme'? Give an example.
 - (ii) What are glycosides? Write their physiological importances.
 - (iii) Classify proteins with examples. 2+(2+2)+4=10

Or

- (b) (i) What do you mean by funcidity of fat?
 - (ii) What is covalent modification? Define K_m .
 - (iii) Describe the chemical structure and function of cholesterol. 2+(2+1)+(2+3)=10
