

C.U.SHAH UNIVERSITY

Summer Examination-2018

Subject Name : Biochemistry - Theory

Subject Code : BP203T

Branch: B.Pharm

Semester : 2

Date : 27/04/2018

Time : 10:30 To 01:30

Marks : 75

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1 Attempt the following questions

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|----|---|------|
| a) | Define gluconeogenesis and glycogenolysis | (02) |
| b) | Give the name of purine and pyrimidine base | (02) |
| c) | Explain cori's cycle | (02) |
| d) | Explain fatty liver | (02) |
| e) | What is oxidative deamination? | (02) |
| f) | What is transamination? | (02) |
| g) | Explain phenylketonuria | (02) |
| h) | What is nucleic acid? Give examples of nucleic acid | (02) |
| i) | Define Genetic code | (02) |
| j) | What is porphyrin? Give the examples of porphyrin | (02) |

Attempt the following questions:

Q-2 Attempt any two of following

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|----|---|------|
| a) | Describe glycolysis pathway with significance of citric acid cycle. | (10) |
| b) | Discuss respiratory chain with significance of oxidative phosphorylation. | (10) |
| c) | Explain in detail about protein synthesis with the help of RNA synthesis. | (10) |

Q-3 Attempt any Seven of following

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|----|---|------|
| a) | Write a short note on HMP shunt. | (05) |
| b) | Describe in detail about regulation of blood sugar. | (05) |



- c) Describe the β -oxidation of fatty acid. (05)
- d) Write a short note on sulphur containing amino acid. (05)
- e) Describe complete structure of DNA. (05)
- f) Classify DNA repair mechanism? Explain double strain breaks mechanism. (05)
- g) Describe in detail about DNA replication. (05)
- h) Describe mechanism behind enzyme inhibition. (05)
- i) Explain therapeutic and diagnostic applications of enzyme. (05)

