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Reg. No. : .....

Name : .....

Sixth Semester B.Sc. Degree Examination, April 2017
First Degree Programme under CBCSS
Core Course IX
ZO 1641 : PHYSIOLOGY AND BIOCHEMISTRY
(2013 Admission)

Time : 3 Hours Max. Marks : 80

***Instruction** : Give illustrations **wherever** necessary.*

I. Answer **all ten** questions (**1** mark **each**).

1) ECG
2) Rigor mortis
3) Asphyxia
4) Proteinuria
5) Anticoagulant
6) Universal donor
7) ADH
8) PEM
9) Acetyl choline
10) Coenzyme.

(10x1 =10 Marks)

II. Answer **any eight** questions (**2** marks **each**).

11) Alzheimer's disease
12) Muscle twitch
13) Prostaglandins and their function
14) Birth control
15) Islets of Langerhans
16) Chloride shift

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17) Distinguish between striated and non-striated muscle.

18) Lymphatic system

19) Saltatory transmission

20) Gastrointestinal hormones

21) Lactic acid fermentation

22) Distinguish between fats and oils. (8×2=16 Marks)

III. Answer **any six** questions (**4** marks **each**).

23) What is Beta oxidation ? Explain.

24) Explain the types of synaptic transmission.

25) Comment on nervous and hormonal control of digestion.

26) Distinguish between Deamination and Transamination.

27) Explain feedback mechanism.

28) Explain the physiological effects of smoking.

29) List the inhibitors of enzyme activity.

30) Explain the structure of haemoglobin.

31) What is Dialysis ? Mention Kidney transplantation. (6×4=24 Marks)

IV. Answer **any two** of the following (**15** marks **each**).

32) Describe the various steps involved in the oxidation of glucose during which energy is released.

33) Describe the structure of human nephron and the mechanism of urine formation in human kidney.

34) Describe the second messenger mechanism in hormone action.

35) Write an essay on the composition and functions of blood plasma and formed elements. (2×15 =30 Marks)

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