



## Question Bank For PG Course

### Zoology

#### Paper-3A

#### PHYSIOLOGY AND BIOCHEMISTRY : PGZO-IIIA

##### Question 1

Which gastrointestinal hormone stimulates insulin secretion?

##### Question 2

What do delta cells secrete?

##### Question 3

What is the correct meaning of homeostasis ?

##### Question 4

Where do you find the internal pacemaker that sets biological rhythms ?

##### Question 5

What is the primary precondition to occur Glycolysis in a cell ?

##### Question 6

Which metabolic pathways does not require oxygen?

##### Question 7

Which chemical messenger acts distantly ?

##### Question 8

Which semiochemicals always acts within the species ?

##### Question 9

How the aquatic animals can regulate the body temperature in cold condition ?

##### Question 10

What is the energy source during bioluminescence reactions ?

##### Question 11

Which would cause a decrease in the binding affinity of haemoglobin for oxygen?

##### Question 12

Which tissues is most dependent upon a constant blood supply of glucose?

**Question 13**

When the velocity of enzyme activity is plotted against substrate concentration, which of the following is obtained?

**Question 14**

What is the general mechanism of an enzyme?

**Question 15**

What is not a G-protein coupled receptor?

**Question 16**

What is the physiological response to hypothermia?

**Question 17**

Which coenzyme is reduced in both glycolysis and the Krebs cycle?

**Question 18**

Where do you find thermoregulatory center?

**Question 19**

How many molecules of ATP are needed to activate the glucose in glycolysis?

**Question 20**

Which process cools the skin during sweating?

**Question 21**

What is the normal core body temperature in human?

**Question 22**

Which of the following is a non reducing sugar?

**Question 23**

What is the name of precursor for the synthesis of Vitamin C(Ascorbic Acid)?

**Question 24**

Which animal possesses cellulose?

**Question 25**

Which of the following is a tricarboxylic acid?

**Question 26**

What is the net gain of ATP during the conversion of glucose to pyruvate?

**Question 27**

Which hormones is responsible for increasing gluconeogenesis in the liver during prolonged starvation?

**Question 28**

Which enzyme is known as the rate-limiting step in glycolysis?

**Question 29**

What is the site for gluconeogenesis?

**Question 30**

Which enzyme is responsible for the conversion of pyruvate to phosphoenolpyruvate (PEP)?