

Mark /S

The Open University of Sri Lanka  
Kandy Regional Centre  
EXAMINATION



**THE OPEN UNIVERSITY OF SRI LANKA**  
**B.Sc DEGREE PROGRAMME- 2004/05**  
**ANIMAL FORM AND FUNCTION – ZOU 2264**  
**ZOOLOGY –LEVEL 4**

**OPEN BOOK TEST -1**

**DURATION - ONE HOUR**

**DATE : 7 OCTOBER 2006**

**TIME : 10.30 am -11.30 noon**

**REGISTRATION NO:- .....**

Instructions :

- Answers all questions in **Part A** and **Part B**
- Answers to **Part A** ( multiple – choice questions) must be indicated in the table 1 in the annexed sheet by placing a cross (X) in the relevant cage.
- Answers to **Part B** (structured questions) must be written within the space provided in the question paper.
- Please submit **Part A** of the question paper along with **Part B**

PART B

Question 2.

Figure 2 shows the major steps of energy expenditure and gain in a living cell.

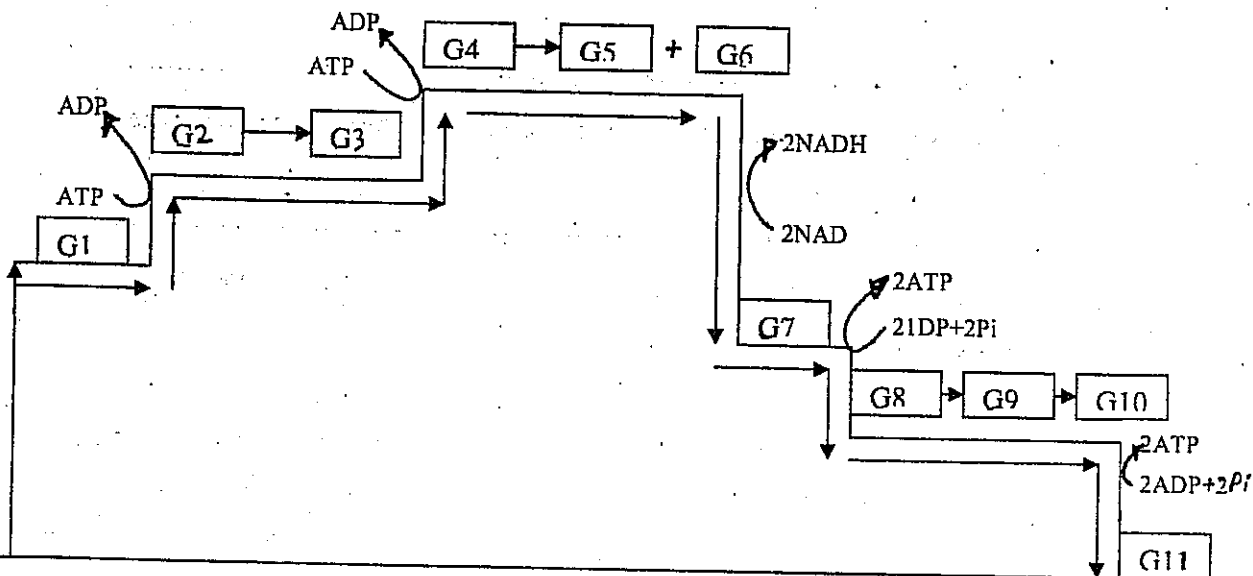


Figure 2

2.1.1 Identify the substances indicated by letter G in the Figure 2

- G1. L-D-glucose
- G2. \_\_\_\_\_
- G3. \_\_\_\_\_
- G4. \_\_\_\_\_
- G5. \_\_\_\_\_
- G6. \_\_\_\_\_
- G7. \_\_\_\_\_
- G8. \_\_\_\_\_
- G9. \_\_\_\_\_
- G10. \_\_\_\_\_
- G11. \_\_\_\_\_

2.1.2 Name the process and calculate net ATP gained during the above process ?

Process ----- Net ATP -----

2.1.3 What is the end product of G11 in mitochondrion ?

-----

2.1.4 What is the end product of G11 in animal cell in the absence of Oxygen ?

-----

2.1.5 Write two differences between substrate level phosphorylation and oxidative phosphorylation.

-----  
-----  
-----  
-----

2.1.6 Differentiate between cellular respiration and external respiration

-----  
-----  
-----  
-----  
-----  
-----

2.2.1 Define the coagulation of blood.

-----  
-----  
-----

2.2. Figure 3 shows the summary of steps in clot formation .

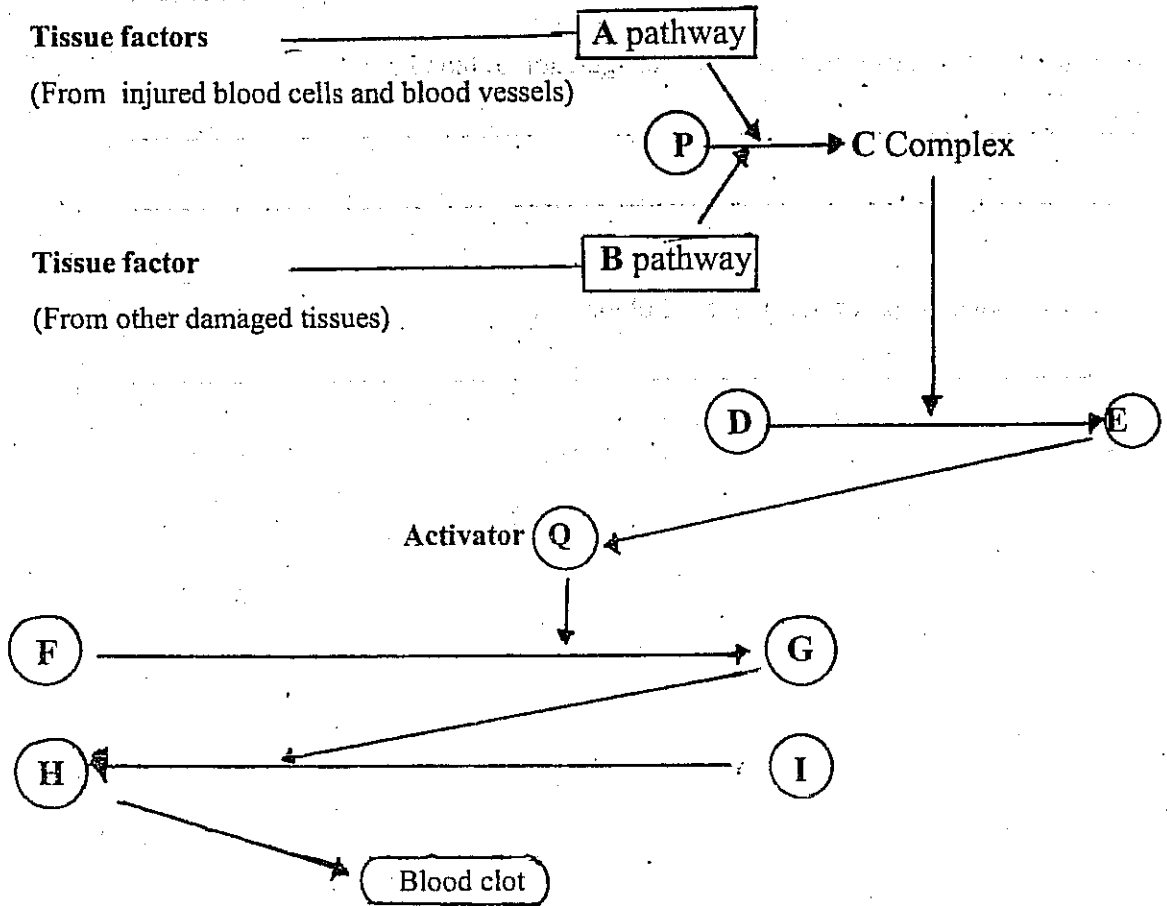


Figure 3

2.2.2 Name A,B,C,D,E,F,G,H,I, P and Q

- A ----- B ----- C -----
- D ----- E ----- F -----
- G ----- H ----- I -----
- P ----- Q -----

2.2.3 What are the tissue factors in pathway A and B ?

A-----

B-----

2.2.4 What are the other factor that affect the coagulation of blood ?

-----  
-----

2.2.5 Write two advantages of formation of blood clot.

1-----

2-----

2.2.6 Describe how blood clotting is prevented inside the body

-----  
-----  
-----  
-----

2.2.7 What is the importance of agglutinogens in erythrocyte in blood grouping ?

-----  
-----  
-----  
-----

2.2.8 What is the Rh factor in human blood ?

-----  
-----  
-----  
-----