

# **MODEL ENTRANCE TEST PAPER**

**BRITISH SECTION**

**SUBJECT: BIOLOGY**

**GRADE: 11**

**TOTAL MARKS: 25**

---

**Q1. Match the column A and B.**

**[5marks]**

- |                      |                                  |
|----------------------|----------------------------------|
| (a) Fats             | (i) along concentration gradient |
| (B) active transport | (ii) specific in action          |
| (c) Enzymes          | (iii) nitrogen fixation          |
| (d) Diffusion        | (IV) glycerol and fatty acids    |
| (e) Rhizobium        | (v) ATP                          |

**Q2. Fill in the blanks: -**

**[5marks]**

(i) In the nucleus of every cell, there are a number of long threads called \_\_\_\_\_ which are made up of DNA. A length of DNA coding for a specific protein is called as \_\_\_\_\_. The nucleus containing single set of chromosomes is called as \_\_\_\_\_ and the one containing two sets of chromosomes of the same kind and making a pair are called as \_\_\_\_\_.

**Q3. Choose the correct answer: -**

**[5marks]**

- (i) The main transport system of all humans is the Blood Circulating system. It consists of network of tubes called blood vessels and a pump called Heart.
- (i) The heart is divided into four chambers. The chamber on the left hand side is Repeated from the one on right hand side by

- |                    |                     |
|--------------------|---------------------|
| A. bicuspid valves | B. tricuspid valves |
| C. septum          | D. Cardiac muscles. |

(ii) All the arteria contain oxygenated blood except

- A. Pulmonary artery      B. umbilical artery
- C. Both A and B      D. None of above.

(ii) The pacemaker is present in

- A. Right atrium      B. Left atrium
- C. Right ventricle.      D. Left ventricle.

(iv) During diastole.

- A. Semi lunar valves open      B. Atrio-ventricular values open
- C. Atrio-ventricular values close      D. Both A and B.

(v) Blood pressure can be measured in

- A. Arteries      B. Vein
- C. Capillaries      D. All of above.

**Q4. Answer the following questions: -**

**[10marks]**

(i) What is Atherosclerosis? How is it caused?

-----  
-----

(ii) What do you know about lock and key mechanism of enzymes?

-----  
-----

(iii) What is artificial insemination? Give any ethical issue to carry out this technique.

-----  
-----

(iv) Why are immunosuppressive drugs taken when transplanting any organ in the body?  
What can the harmful effects of such drugs upon the recipient?

-----  
-----  
**(vi)** How double fertilization takes place in plants?  
-----  
-----

SAMPLE 1