



**SAMPLE QUESTIONS &  
VALUE POINTS**



*OPEN  
TEXT  
BASED  
ASSESSMENT  
2016\_17  
CLASS\_XI  
BIOLOGY*

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**SAMPLE QUESTIONS AND VALUE POINTS**  
**OPEN TEXT BASED ASSESSMENT 2016\_17**

**BIOLOGY (044) CLASS- XI**

**THEME 1: Long Live Humanity**

**Sample Questions:**

Q.1. Enumerate suggestive measures that may be undertaken to encourage organ & tissue donation without inhibitions by the stakeholders. (5 Marks)

**VALUE POINTS: are only suggestive. The student's creative thinking and interpretation, freedom of expression if relevant, ought to be given due weightage over and above the following listed value points.**

**Value Points for Question 1: Please Ref: Pages 2 to 11 of OTBA material Theme \_1: Long Live Humanity - (1 mark for each point)**

- a. Students in Schools & colleges to be educated about Organ / tissue donation.
- b. Create awareness with the help of Media (T.V / Print) or both; that organ / tissue donation saves one or more lives without disfiguring the donor and that it is legal.
- c. Dispel the myths and misconceptions about Organ / tissue donation (such as soul wanders and salvation is not possible due to organ donation....)
- d. Encourage people to pledge their organs / tissue for donation after their death.
- e. More hospitals should be well equipped along with trained Doctors for transplanting the organs donated in time.
- f. Any other relevant point.

Q. 2. Justify the relevance of this particular open text material for the examination of students of class XI Biology. (2+3=5)

**Value Points for Question 2:**

**Please Ref: Pages 3 to 6 of OTBA material \_Theme \_1: Long Live Humanity (1 mark for each point)**

- Educating and generating awareness for the students themselves on the noble cause of Organ donation.
- To sensitize the stakeholders that the demand of organs for transplantation far exceeds the supply and they need to act by pledging their organs.

- Since research shows that 48% are undecided about Organ donation, awareness and education can play a major role in helping them decide in favour of Organ donation.
- Stakeholders to be aware of Green corridors used for Organ transplantation, and inform hospitals soon after the death of a willing Donor for timely harvest of Organs for Donation.
- Awareness regarding the procedures and protocols to be followed for Organ donation as well as transplantation.

Q.3. Critically analyze the fig.3 on page number 5 of the text and give a detailed list of factors in our control and outside our control for contracting End stage Renal Disease (ESRD) (3+2=5 marks)

**Value Points for Question 3: Please Ref: Page 3 of OTBA material Theme \_1: Long Live Humanity**

**Factors within our control are: (any three points)**

- Diet (Control helps prevent Diabetes and hypertension, the major cause for ESRD)
- Exercise (done regularly helps prevent obesity)
- Smoking ( Major cause of a number of ailments)
- Stress reduction (regular Yoga, Music, walking, or even a Hobby etc.)
- Medical checkups ( if regular helps detect and prevent ESRD)

**Factors not in our control are: (any two points)**

- Heredity & Genetic factors
- Renal Stones
- Environmental risk factors (i.e. Heavy metals in water or other sources)
- Drug induced (analgesics, Radiographic Contrast etc.)

Q.4.What is meant by Organ rejection? How is this issue taken care of while an Organ is transplanted from a donor to a recipient? (5 marks)

**Value Points for Question 4: Please Ref: Page 8 of OTBA material \_ Theme \_1: Long Live Humanity**

- The process by which the body fights off the newly implanted organ is known as Rejection; the body's immune system treats the transplanted organ as it would treat any harmful foreign invader.
- The antibodies produced by the immune system try to kill it.
- Powerful immunosuppressant drugs are used to prevent rejection, by keeping the Antibody level low e.g.Muromonab-CD3 is an Immunosuppressant drug.
- Use of Immunosuppressant's makes the person with transplanted organ susceptible to infections (due to low level of antibodies).

- High degree of cleanliness, care and precautions has to be taken to prevent succumbing to other infections.

Q.5.How do you think students can contribute in this social cause of Organ / Tissue Donation?

**Value Points for Question 5: Please Ref: Pages 1 to 11 of OTBA material Theme \_1: Long Live Humanity**

The student should be judged as per her / his interpretation, thoughts & ideas, without fitting her/him into any specific mould. The freedom of thought and expressions ought to be encouraged and evaluated accordingly.

## **SAMPLE QUESTIONS AND VALUE POINTS**

### **OPEN TEXT BASED ASSESSMENT 2016\_17**

#### **BIOLOGY (044) CLASS- XI**

#### **THEME 2: Learn to live well**

#### **SAMPLE QUESTIONS:**

Q.1.'The World Health Day' is celebrated every year on the 7<sup>th</sup> April. The theme for the year 2017 is: '**Depression: Let's Talk**' and for the year 2016: '**Beat Diabetes**'. What were themes of World Health Day for the last five years? (5 marks)

**Student's to be encouraged to search in WHO Website and find the desired details.**

Ans:

- 1) 2015: '**Food Safety**'
- 2) 2014: '**Small bite big threat**'
- 3) 2013: '**Healthy Blood pressure**'
- 4) 2012: '**Ageing & Health**'
- 5) 2011: '**Antimicrobial resistance**'

Q.2.Why is Diabetes mellitus such a big cause of concern today? Why do you think we should educate Students about it? (2+3=5 marks)

**VALUE POINTS: are only suggestive. The student's creative thinking and interpretation if relevant, ought to be given due weightage over and above these listed value points.**

**Value Points for Question 2: Please Ref: Pages 15 to 17 of OTBA material Theme\_2: Learn to live well**

It is a big cause of concern because WHO Statistics shows: (any 2 points one mark each)

- India as the World Diabetes Capital
- Diabetes is a major cause of blindness, Kidney Failure, Heart attack, Stroke and lower limb amputation.
- Its prevalence is rising rapidly due to lack of exercise and obesity.
- Type II Diabetes could be the 7<sup>th</sup> leading cause of death in the year 2030, as per WHO findings.

Students need to be educated about Diabetes because: (any 3 points one mark each)

- Type 1 or Juvenile diabetes as well as Type II or non-insulin dependent Diabetes; both are on the rise.
- Students are living on junk food and playing computer / mobile games without enough outdoor physical exercise.
- Students are ignorant about both short term and long term consequences of the above issues.
- Educated students are in a better position to take care of their health and also to educate their loved ones.

Q.3.What are the different types of thyroid disorders? List steps to overcome disorders of the Thyroid gland. (2+3=5 marks)

**Value Points for Question 3: Please Ref: Pages 18 to 20 of OTBA material:**

Ans: Page no.18 Table above fig 2 (1/2\*4=2 marks)

Thyroid Gland disorders may be prevented by: (any 3 points)

- Reducing stress by deep breathing and meditation.
- Avoiding excessive weight gain.
- Eating fibre rich foods like vegetables, fruits, whole grains, proteins and healthy fats.
- Eating Iodized salt.
- Having regular medical checkups.
- Regular exercise.

Q.4. Increased Economic independence and lack of awareness leads to health issues. Justify this statement along with suggestive measures that may be taken to overcome the same. (5 marks)

**Value Points for Question 4: Student's understanding of the issue and suggestive measures may be evaluated appropriately.**

Q.5.a) Some Kinder garden schools suggest what the students are to bring in their lunch box along with the time table. What is your opinion about the same? 2 marks

b) Suggest innovative solutions to the spread awareness about Diabetes and Thyroid related disorders in the society. (3 marks)

**Value Points for Question 5:**

a) Due weightage to the student's opinion on the issue. (2 marks)

b) Any innovative suggestions. (3 marks)

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