

## **BIOLOGY**

# BOOKS - SURA BIOLOGY (TAMIL ENGLISH)

## **HEALTH AND DISEASES**

**Textbook Evaluation Choose The Correct Answer** 

**1.** A highly poisonous chemical derived from tobacco is

B. Tannic acid				
C. Curcumin				
D. Leptin				
Answer: A				
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2. World 'No Tobacco Day' is observed on				
A. May 31				

A. Nicotine

- B. June 6
- C. April 22
- D. October 2

#### **Answer: A**



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**3.** Cancer cells are more easily damaged by radiations than normal cells because they are

A. Different in structure

- B. Non-dividing
- C. Mutated cells
- D. Undergoing rapid division

#### **Answer: D**



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**4.** Which type of cancer affects lymph nodes and spleen ?

A. Carcinoma

- B. Sarcoma
- C. Leukemia
- D. Lymphoma

#### **Answer: D**



- 5. Excessive consumption of alcohol leads to
  - A. Loss of memory
  - B. Cirhossis of liver

- C. State of hallucination
- D. Supression of brain function

### **Answer: B**



- 6. Coronary heart disease is due to
  - A. Streptococci bacteria
  - B. Inflammation of pericardium
  - C. Weakening of heart valves

D. Insufficient blood supply to heart muscles

### **Answer: D**



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## 7. Cancer of the epithelial cells is called

- A. Leukemia
- B. Sarcoma
- C. Carcinoma

D. Lipoma

#### **Answer: C**



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8. Metastasis is associated with

A. Malignant tumour

B. Benign tumour

C. Both (a) and (b)

D. Crown gall tumour

#### **Answer: A**



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- 9. Polyphagia is a condition seen in
  - A. Obesity
  - B. Diabetes mellitus
  - C. Diabetes insipidus
  - D. AIDS

#### **Answer: B**

**10.** Where does alcohol effect immediately after drinking?

A. Eyes

B. Auditory region

C. Liver

D. Central nervous system

**Answer: D** 

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## Textbook Evaluation State Whether True Or False If False Write The Correct Statement

1. AIDS is an epidemic disease



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2. Cancer causing genes are called Oncogenes.



**3.** Obesity is characterized by tumour formation



**4.** In Leukemia both WBCs and RBCs increase in number.



5. Study of cause of disease is called etiology

**6.** AIDS is not transmitted by contact with a patient's clothes.



**7.** Type 2 diabetes mellitus results due to insulin deficiency.



**8.** Carcinogens are cancer causing agents.



9. Nicotine is a narcotic drug.



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10. Cirrhosis is associated with brain disorder.



## Textbook Evaluation Expand The Following **Abbreviations**

1. Expand the IDDM



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2. Expand the HIV



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3. Expand the BMI



4. Expand the AIDS



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5. Expand the CHD



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6. Expand the NIDDM



## **Textbook Evaluation Match The Following**





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**Textbook Evaluation Fill In The Blanks** 

1. Cirhosis is caused in liver due to excessive				
use of				
Watch Video Solution				
2. A highly poisonous chemical derived from tobacco is				
Watch Video Solution				
<b>3.</b> Blood cancer is called				



**4.** Less response of a drug to a specific dose with repeated use is called \_\_\_\_\_.



5. Insulin resistance is a condition in diabetes mellitus.



Textbook Evaluation Analogy Type Questions Identify The First Words And Their Relationship And Suggest A Suitable Word For The Fourth Blank

<b>1.</b> Communicable	:AIDS	: Non	communicable :



2. Chemotherapy: Chemicals: Radiation therapy:\_\_\_\_\_



**3.** Hypertension: Hypercholesterolomia :

Glycosuria:



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**Textbook Evaluation Answer In A Sentence** 

1. What are psychotropic drugs?



**2.** Mention the diseases caused by tobacco smoke.



**3.** What are the contributing factors for Obesity?



**4.** What is adult onset diabetes?



5. What is metastasis?



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**6.** How does insulin deficiency occur?



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**Textbook Evaluation Short Answers Questions** 

**1.** What are the various routes by which transmission of human immuno deficiency virus takes place ?



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**2.** How is a cancer cell different from a normal cell ?



**3.** Differentiate between Type-I and Type-2 diebetes mellitus.



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**4.** Why is a dietry restriction recommended for an obese individual ?



**5.** What precautions can be taken for preventing heart diseases?



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## **Textbook Evaluation Long Answer Questions**

**1.** Suggest measures to overcome the problems of an alcoholic.



2. Changes in lifestyle is a risk factor for occurrence of cardiovascular diseases. Can it be modified? If yes, suggest measures for prevention.



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## Textbook Evaluation Higher Order Thinking Skills Hots

**1.** What is the role of fat in the cause of atherosclerosis?



2. Eating junk food and consuming soft drinks results in health problems like obesity, still children prefer. What are the suggestions you would give to avoid children eating junk food/consumption of soft drinks?



**3.** Regular physical exercise is advisable for normal funtioning of human body. What are the advantages of practising exercise in daily life?



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**4.** A leading weekly magazine has recently published a survey analysis which says that number of AIDS patient in the country is increasing day by day. The report says that the

awareness among the people about AIDS is still very poor. You are discussing the magazine report in your class and a team of your class decides to help people to fight against the dreadful disease.

What problem you face when trying to educate the people in your village nearby your scholl?



5. A leading weekly magazine has recently published a survey analysis which says that number of AIDS patient in the country is increasing day by day. The report says that the awareness among the people about AIDS is still very poor. You are discussing the magazine report in your class and a team of your class decides to help people to fight against the dreadful disease.

How do you overcome the problem?



## **Textbook Evaluation Value Based Question**

**1.** Once a person starts taking drugs or alcohol it is difficult to get rid of the habit. Why?



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**2.** Men addicted to tobacco lead to oxygen deficiency in their body. What cauld be the possible reason?



**3.** Name any three foods that are to be avoided and included in the diet of a diebetic patient. Why should it be followed?



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**4.** How can informational efforts change people's HIV knowledge and behaviour?



1. Assertion: All drugs act on the brain.

Reason: Drugs disturb the functioning of the body and mind.

- A. If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- B. If both Assertion and Reason are true and that Reason is not the correct explanation of Assertion.

C. Assertion is true and Reason is false

D. Both Assertion and Reason are false

#### **Answer: A**



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**2.** Assertion: Excretion of excess glucose in urine is observed in a person with diabetes mellitus.

Reason: Pancreas is unable to produce sufficient quantity of insulin.

A. If both Assertion and Reason are true and Reason is the correct explanation of Assertion.

B. If both Assertion and Reason are true and that Reason is not the correct explanation of Assertion.

C. Assertion is true and Reason is false

D. Both Assertion and Reason are false

### **Answer: A**



# Additional Questions Answers Choose The Correct Answer

1. \_\_\_\_\_ is not related to NIDDM.

A. Insulin administration

B. Controlled by medicine

C. Obese

D. Insulin action impaired

**Answer: A** 

2. \_\_\_\_\_ is a symptom of CHD.

A. Glycosuria

B. Ischemia

C. Hyperglycemia

D. Polyphagia

**Answer: B** 



- **3.** \_\_\_\_\_ help reduce blood sugar levels.
  - A. Sweet potato
  - B. Tomato
  - C. Beet root
  - D. Cane sugar

### **Answer: B**



**4.** \_\_\_\_\_ is not a method of treatment for cancer.

A. Surgery

B. Immunotherapy

C. Vasectomy

D. Radiation therapy

**Answer: C** 



<b>5.</b> AIDS affects the system
A. circulatory
B. nervous
C. immune
D. digestive
Answer: C
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<b>6.</b> is not a symptom of AIDS.

B. Lack of appetite
C. Weight loss
D. Swelling of lymph nodes
Answer: A
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<b>7.</b> World AIDS day is observed on
A. $1^{st}$ December

A. Increase in number of WBC

- B.  $15^{th}$  December
- C.  $24^{th}$  November
- D. 1st May

### **Answer: A**



- **8.** Obesity is not a risk factor for \_\_\_\_\_.
  - A. AIDS
  - B. diabetes

- C. arthritis
- D. CHD

## **Answer: A**



- **9.** Excess hunger is called\_\_\_\_\_
  - A. polyphagia
  - B. polydipsia
  - C. polyuria

D. glycosuria

## **Answer: A**



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**10.** Sexually abused children show symptoms of \_\_\_\_\_.

A. frequent urinary infection

B. head ache

C. sore head

D. migraine

**Answer: A** 



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# Additional Questions Answers Fill In The Blanks

**1.** The \_\_\_\_\_ act aims to protect children from sexual offences.



<b>2.</b> The	provides	а	social	worker
who can help an abu	sed child.			



**3.** The National Commission for protection of child Rights was set up in \_\_\_\_\_.



**4.** The psychotrophic drugs are classified based on their mode of action on the



**5.** \_\_\_\_\_ present in tobacco smoke causes lung cancer.



<b>6.</b> is a chronic metabolic disorder.
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7. Desirable level for blood serum cholestrol
should be less than for Indians.
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8. PUFA stands for
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9.	Non-Malignant	tumours	are	also	called
	·				



**10.** HIV belongs to a group of virus called \_\_\_\_\_.



<b>11.</b> World Cancer Day is observed on
every year.
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<b>12.</b> Intake of flax seeds can help reduce blood level.
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<b>13.</b> Nicotine is a



**14.** \_\_\_\_\_ is a carcinogenic agent present in tobacco.



**15.** Anti-tobacco Act was passed on \_\_\_\_\_.



16.	Cancerous	tumours	are	described
as	·			
C	Watch Vide	o Solution		
<b>17.</b> F	Presence of H analysis		ı ve co	onfirmed by
C	Watch Vide	o Solution		
<b>18.</b> E	ELISA stands fo	or	<b></b> •	



**20.** NACO stands for \_\_\_\_\_

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**21.** The word oncos means \_\_\_\_\_



<b>22.</b> A n	iew	growth	or	tumour	is	also	known	as



23. Death of heart muscle tissues leads to



<b>24.</b> Deficient bloc	od supply to	heart muscle	s is
called			



**25.** \_\_\_\_\_ causing agents are called Carcinogens.



26.	Betel	and	tobacco	chewing	causes
	C	ancer.			
C	Wato	h Vide	o Solution		

**27.** Excessive exposure to sunlight may cause cancer.



28.	Cancer	causing	viruses	are	called
	vir	uses.			



**29.** Tumour cells are irradiated by lethal doses of \_\_\_\_\_.



involves administration of 30. anticancerous drugs which prevent cell division.



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31. Tobacco smoking is to be avoided to prevent \_\_\_\_ cancer.



# 32. Expand the AIDS



**33.** Presence of HIV virus can ve confirmed by analysis.



**34.** \_\_\_\_\_ drugs and immunostimulative therapy can prolong the life of a AIDS infected

person.
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<b>35.</b> pioneered HIV research and treatment in India.
Watch Video Solution
<b>36.</b> First Indian AIDS patient was found in
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37. Loss of water leads to thrist which is a condition called \_\_\_\_\_.



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**38.** refers to cruel, violent, harmful or injurious treatment of another human being.



**39.** \_\_\_\_\_ is a form of power and dominance of one person over another.



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**40.** \_\_\_\_\_ refers to inappropriate or forced sexual contact.



**41.** Protection of children of all age group upto

\_\_\_\_\_ years of age is of equal importance.



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**42.** Physical and mental dependency on alcohol , smoking and drugs is called .





**43.** The \_\_\_\_\_ act aims to protect children from sexual offences.



**44.** Fist phase of treatment in drug deaddiction .



**45.** World 'No Tobacco Day ' is observed on



**46.** The addictive potential of substances pulls an individual into a \_\_\_\_\_ cycle.



**47.** A person who is inhabituated to a drug due to its prolonged use is called \_\_\_\_\_.



48. International Day against Drug Abuse and Illicit Trafficking is on .



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49. Narcotic Drugs and Psychotropic Substances Act was introduction in . .



**50.** Addictive drugs interact with the and affect an individual.



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51. Drugs act on the brain and alter the behaviour are called drugs.



**52.** \_\_\_\_\_ drugs are referred as mood altering drugs.



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**53.** Addiction to tobacco is due to nicotine an\_\_\_\_ present in it.



**54.** Inhaling tobacco smoke from cigars, cigarettes, bidis, pipes, hukka is called\_\_\_\_\_



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**55.** \_\_\_\_\_ and \_\_\_\_ present in tobacco smoke is carcinogenic causing lung cancer.



<b>56.</b> Tobacco causes inflammation of throat a	ınd
bronchi leading to condtions like a	nd
•	



**57.** \_\_\_\_\_ of tobacco smoke binds to haemoglobin of RBC and decreases its oxygen carrying capacity.



<b>58.</b> Tobacco chewing causes cancer.
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<b>59.</b> Dependence as alcohol is called
Watch Video Solution
<b>60.</b> abuse causes lack of co-
ordination of body organs.
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**61.** Liver damage results in \_\_\_\_\_ which leads to cirrhosis and formation of fibrous tissues.



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**62.** \_\_\_\_\_ is a chronic metabolic disorder.



63.	Type-1	diabetes	is	caused	by	the
dest	truction	of	pan	creas.		
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64.	What is a	adult onset	diab	etes ?		
Watch Video Solution						
		, diabetes ans		ns		and



**66.** Increased blood glucose level is called

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**67.** Increased urine output of a diabetic patient leads to \_\_\_\_\_.



<b>68.</b> Excessive glucose exerted in urine is called						
·						
Watch Video Solution						
<b>69.</b> plays an important role in						
facilitating a good control of diabetes.						

**70.** \_\_\_\_\_ restriction for weight reduction is safe and most effective.



**71.** Cancer is derived from Latin word meaning\_\_\_\_\_.



72.	Carcinomas	arise	from	epithelial	and
	tissues.				



73. Sarcoma occurs in the connective and

----·



tumours grow very rapidly 74. invading and damaging the surrounding normal tissues.



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**75.** Blood cancer is called .



**Watch Video Solution** 

**76.** Coronary heart disease is due to



**77.** Condition of narrowing of blodd vessels in coronary heart diseases.



**78.** \_\_\_\_\_ is the death of the heart muscle tissue.



**79.** Study of cancer .



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80. Insulin dependent diabetes is also called

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Additional Questions Answers Match The Following

1.



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2.



**View Text Solution** 

Additional Questions Answers State Whether
The Following Statements Are True Or False
Correct The False Statement

1. Excessive consumption of alcohol leads to



**2.** Carbon dioxide can bind to haemoglobin and reduce oxygen carrying capacity of blood.



**3.** Drug addicts can be counselled and rehabilitated



**4.** Target cells do not respond to insulin in non insulin dependent diabetes mellitus .



**Watch Video Solution** 

**5.** Polydipsia leads to dehydration .



**6.** Normal cells migrate to distant parts of the body.



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7. UV rays cause damage to DNA.



**Watch Video Solution** 

**8.** LDL or bad cholesterol increases risk of heart disease.



9. State True/False:

During radiation therapy in cancer surrounding normal cells are protected.



**10.** Persons suffering from AIDS have loss of memory and lack of appetite.



# Additional Questions Answers Assertion And Reason

**1.** Assertion: Aids virus has been found in urine of patients affected by AIDS

Reason: Person should be kept isolated from the family.

A. Both Assertion and Reason are true and

Reason is correct explanation of

Assertion.

B. Both Assertion and Reason are true but

Reason is not the correct explanation of

Assertion.

C. Assertion is true but Reason is false

D. Both Assertion and Reason are false

### Answer: C



2. Assertion : Leukaemia affects children below15 years of age.

Reason: It is most common type of cancer.

A. Both Assertion and Reason are true and

Reason is correct explanation of

Assertion .

B. Both Assertion and Reason are true but

Reason is not the correct explanation of

Assertion.

C. Assertion is true but Reason is false

D. Both Assertion and Reason are false

#### **Answer: B**



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**3.** Assertion: Diet rich in unsaturated fat and obesity are the causes for heart disease.

Reason: The proteins blocks the blood vessels.

A. Both Assertion and Reason are true and

Reason is correct explanation of

Assertion.

B. Both Assertion and Reason are true but Reason is not the correct explanation of

Assertion.

C. Assertion is true but Reason is false

D. Both Assertion and Reason are false

#### Answer: D



**4.** Assertion: Diabetes, obesity and cancer are disorder caused due to life style modification.

Reason: Needs of man and his choice are different in this generation.

A. Both Assertion and Reason are true and

Reason is correct explanation of

Assertion.

B. Both Assertion and Reason are true but

Reason is not the correct explanation of

Assertion.

- C. Assertion is true but Reason is false
- D. Both Assertion and Reason are false

**Answer: A** 



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Additional Questions Answers Analogy Type Questions Identify The First Words And Their Relationship And Suggest A Suitable Word For The Fourth Blank

1. What is diabetes? Explain the types.



**2.** Increased urine output : Polyuria :: Increased fluid intake : \_\_\_\_\_\_.



**3.** Chemotherapy : Anticancerous drugs :: Immunotherapy : \_\_\_\_\_.



<b>4.</b> HDL : Good cholesterol :: LDL :
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**5.** Juvenile onset : < 20 years :: Maturity onset : \_\_\_\_\_.



Additional Questions Answers Answer In One Word

**1.** Prolonged non- medical use of certain drugs by an individual.



**2.** \_\_\_\_\_ drugs are referred as mood altering drugs.



3. Fist phase of treatment in drug deaddiction



**4.** International Day against Drug Abuse and Illicit Trafficking is on .



5. Which part of tobacco plant yields drugs.



**6.** A gas which binds with haemoglobin easily than oxygen.



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**7.** The cells of the pancreas which produce insulin.



8. Increased blood glucose level is called
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<b>9.</b> Hormone produced by pancreas which controls sugar levels.
Watch Video Solution
<b>10.</b> Excess hunger is called



11. Loss of water leads to thrist which is a condition called.



**12.** Increased urine output of a diabetic patient leads to \_\_\_\_\_.



**13.** Condition of excessive glucose excreted in urine.



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**14.** State in which there is accumulation of excess body fat.



**Watch Video Solution** 

**15.** Expand the BMI





16. Condition of narrowing of blodd vessels in coronary heart diseases.



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17. Type of tumour seen in cancer.



**18.** Study of cancer .



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19. Another term for tumour.



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20. \_\_\_\_\_ involves administration of anticancerous drugs which prevent cell division.



**21.** Substance used in Immunotherapy to treat cancer.



**22.** Mode of transfer of AIDS from infected mother to her chlid.



**23.** Condition of fatty liver caused by exvessive consumption of alcohol.



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**24.** Reduction in gaseous exchange area of the lungs.



**Watch Video Solution** 

**25.** Carcinogens are cancer causing agents.



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## Additional Questions Answers Very Short **Answers**

1. Give examples of two food products recommended for diabetic patients.



2. What is Body Mass Index?



**3.** How are tumours classified?



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**4.** How is the word Cancer derived?



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**5.** Mention any two types of cancer.



**6.** What is Immunotherapy in cancer treatment?



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**7.** Mention the methods used to treat AIDS patients.



**8.** Explain the symptoms of CHD.



9. What is NCPCR?



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10. Write a note on diagnosis of AIDS.



11. The \_\_\_\_\_ provides a social worker who can help an abused child.



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**12.** Define drug addiction.



**Watch Video Solution** 

**13.** Which part of tobacco plant yields drugs.



**14.** What is obesity?



**Watch Video Solution** 

**15.** Define cancer.



**Watch Video Solution** 

**16.** What are carcinogens?



17. What is detoxification?



**Watch Video Solution** 

## **Additional Questions Answers Short Answers**

1. How can we prevent Child Sexual Abuse?



**2.** Mention some behavioural changes seen in drug users.



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**3.** Write the harmful effects of alcohol on health.



**4.** Write a note on symptoms of diabetes mellitus.



Watch Video Solution

**5.** Explain the causes of cancer.



**Watch Video Solution** 

**6.** Write a note an Cancer treatment?



## 7. Expand the AIDS



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**8.** Differentiate Malignant and Non-malignant tumour.



**9.** Write a note an smoking hazards and effects of Tobacco .



**Watch Video Solution** 

10. What is diabetes? Explain the types.



**Watch Video Solution** 

Additional Questions Answers Higher Order Thinking Skills Hots

1. Rajan went to hospital and took an injection for fever. The doctor used a syringe to inject and kept it in his table. What do you think is wrong about this incident?



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**2.** Sita's Mother wanted her to carry lunch to her office. Sita does not want to eat lunch since she is obese. Do you agree with Sita?



3. Radha is a diabetic but she takes medicines for the same. Sheela is also a diabetic but her doctor has insisted that she should take Insulin injections everyday. Do you think that the doctor is right?



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Additional Questions Answers Value Based Question

1. Ramu studies in a school and his friends are discussing about drugs. They force him to use drugs and threaten to avoid him / harm him if he refuses. What should Ramu do?



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**2.** Expand the AIDS



**3.** Expand the POCSO.



**Watch Video Solution** 

**4.** Expand the NCPCR.



**Watch Video Solution** 

5. Expand the CPCR.



**6.** Expand the WHO.



**Watch Video Solution** 

7. Expand the IDDM



**Watch Video Solution** 

8. Expand the NIDDM



**9.** Expand the BMI



**Watch Video Solution** 

10. Expand the HDL.



**Watch Video Solution** 

11. Expand the LDL.



<b>12.</b> Expand the CVD.
Watch Video Solution
<b>13.</b> Expand the CHD
Watch Video Solution
<b>14.</b> PUFA stands for
Watch Video Solution

**15.** Expand the UV.



**Watch Video Solution** 

**16.** Expand the DNA.



**Watch Video Solution** 

17. Expand the HIV



<b>18.</b> ELISA stands for
Watch Video Solution
19. Expand the NACO.
Watch Video Solution
20. Expand the NGO'S.
Watch Video Solution

