

ICSE 2025 EXAMINATION

SPECIMEN QUESTION PAPER

ENVIRONMENTAL APPLICATIONS

Maximum Marks: 100

Time allowed: Two hours

Answers to this Paper must be written on the paper provided separately.

You will **not** be allowed to write during the first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this Paper is the time allowed for writing the answers.

Attempt all questions from Section A and any four questions from Section B.

The intended marks for questions or parts of questions are given in brackets [].

Instruction for the Supervising Examiner

Kindly read aloud the Instructions given above to all the candidates present in the Examination Hall.

SECTION A

(Attempt all questions from this Section.)

Question 1

Choose the correct answers to the questions from the given options.

[20]

(Do not copy the questions, write the correct answers only.)

- (i) The presence of which of the following pollutants in the atmosphere has caused damage to Taj Mahal:
 - (a) Dust
 - (b) Nitrogen dioxide
 - (c) Chlorofluorocarbon
 - (d) Carbon dioxide

[Understanding]

- (ii) EURO II is an example of:
 - (a) Permissible emission norms by Industry
 - (b) Permissible emission norms for vehicles
 - (c) Permissible emission norms on thermal power plants
 - (d) Permissible emission norms on brick kilns

[Understanding]

(iii) Study the picture given below and answer the question:



Identify the soil conservation strategy:

- (a) Contour bunds
- (b) A forested area
- (c) Terrace farming
- (d) Tree break

[Recall]

- (iv) Identify the **incorrect** statement.
 - (a) Forests provide a variety of products.
 - (b) Forests harbour a rich diversity of flora and fauna.
 - (c) Forests contribute to water conservation.
 - (d) Forests do not contribute to soil conservation.

[Understanding]

- (v) Effective segregation of waste at the point of generation is very important. Select the appropriate statement giving the importance of waste segregation:
 - 1. Less waste goes to the landfill
 - 2. Help in reducing the waste
 - 3. Better for public health and environment
 - 4. Waste pickers spend less time sorting through garbage
 - (a) 1 and 2
 - (b) 1 and 3
 - (c) 2 and 4
 - (d) 1 and 4

[Understanding]

- (vi) Assertion(A): Natural Resource Accounting is a process of estimating the value of natural resource depletion and environment degradation due to economic activities.
 - Reason(R): Natural Resource Accounting just estimates the value of natural resources.
 - (a) A and R are true and R explains A
 - (b) A and R are true, but R is not the explanation of A
 - (c) A is false but R is true.
 - (d) A is true but R is false.

[Analysis]

(vii) Assertion (A): Rain water harvesting techniques have application in urban as well as rural areas.

Reason (R): In ancient days people did not have knowledge about water conservation.

- (a) A and R are true and R explains A.
- (b) A and R are true but R is not the explanation of A.
- (c) A is false but R is true.
- (d) A is true but R is false.

[Analysis]

- (viii) Using coal and petroleum as a source of energy emits Carbon dioxide and ash, that pollutes the environment. What step should be taken to save the environment:
 - (a) Replace petroleum with diesel
 - (b) Replace coal with firewood for cooking
 - (c) Replace thermal power with solar power
 - (d) Replace the use of coal with kerosene for melting metals in furnaces.

[Understanding]

- (ix) The planning of the Curitiba city is done giving highest priority to:
 - (a) Urban development
 - (b) Industrial development
 - (c) Bus rapid transit system
 - (d) Light rail transit system

[Understanding]

(x) People of Ladakh usually have dry composting toilets (DCT).

Which of the following statements is TRUE about DCT.

- (a) It is costly
- (b) It saves water
- (c) It requires electricity
- (d) It requires chemical cleaners to clean the toilet

[Analysis]

- (xi) Among the statements given below select the Correct ones that describe the concept of sustainable development:
 - 1. Planned growth with minimum damage to environment
 - 2. Growth irrespective of the extent of damage to environment.
 - 3. Growth that is acceptable to all stakeholders
 - 4. Minimal developmental works to conserve environment
 - (a) 1 and 4
 - (b) 1 and 3
 - (c) 2 and 4
 - (d) 4 only

[Understanding]

(xii) The picture shown below is of a technology for cloth production.What type of cloth is produced by this methodology?



- (a) Nylon
- (b) Silk
- (c) Rayon
- (d) Polyester

[Understanding]

- (xiii) The source of electricity generated by large dams is:
 - (a) Tidal wave
 - (b) Stored falling water
 - (c) Turbine
 - (d) Generator

[Analysis]

(xiv)		oftop rain water harvesting is practiced in cities for storing rain er. Select the correct sequence of the structures for rooftop rain	
		er harvesting.	
	1.	Conduit	
	2.	Recharge structure	
	3.	Catchment area	
	4.	Storage tank	
	(a)	1, 3, 2 and 4	
	(b)	3, 1, 2 and 4	
	(c)	2, 4, 3 and 1	
	(d)	4, 2, 1 and 3	[Understanding]
(xv)	A m	ini hydel power plant can generate electricity:	
	(a)	More than 100 KW	
	(b)	Less than 100KW	
	(c)	10 to 100 KW	
	(d)	More than 1000 KW	[Recall]
(xvi)	Sew	age, a liquid domestic waste should be treated to:	
	1.	meet the growing demand for water	
	2.	reduce water pollution	
	3.	safeguard public health	
	4.	reduce the waste	
	Cho	ose the correct option:	
	(a)	1, 2 and 3	
	(b)	2, 3 and 4	
	(c)	1, 3 and 4	
	(d)	4	[Understanding]

(xvii)	Flui	dized bed boilers work on:			
	(a)	Solid waste			
	(b)	Liquid waste			
	(c)	Gaseous waste			
	(d)	Both solid and liquid wast	e		[Recall]
(xviii)	Sub	sidies are:			
	(a)	Taxes imposed by the Gov	ernme	ent	
	(b)	Surcharges on the non-eco	friend	ly products	
	(c)	Financial aid given by a go	overnn	nent	
	(d)	Fine imposed by government	ent on	act committed against the law	[Understanding]
(xix)	Sele	ct the Correct pair.			
	(a)	Oak	•	Alternative to timber	
	(b)	Sewage	8	Effluent treatment plant	
	(c)	Coal	8	Non-conventional fuel	
	(d)	Bio-degradable waste	-	Incineration	[Understanding]
(xx)	Rem	note Sensing Satellites are pl	laced i	n:	
	(a)	Laboratories			
	(b)	Under the ground			
	(c)	Outer space			
	(d)	In a submarine			
					[Understanding]

T25 891 – SPECIMEN 7 of 12

Question 2

What is brain drain? [2] (i) [Recall] [2] What do you mean by North-South divide? (ii) [Recall] [3] The picture given below is of a logo of a society. (iii) Dastkar What is the literal meaning of the term shown in the picture? (a) [Recall] Enumerate two primary objectives of the 'Dastkar' society. (b) [3] (iv) State any three objectives of sustainable development. [Recalla] Question 3 [2] 'Reuse is better than recycling.' Give any two reasons to support the (i) [Understanding] statement. Soil is a valuable natural resource vulnerable to erosion during heavy [2] (ii) rainfall in hilly terrain. Describe an effective method to reduce soil [Understanding] erosion in such areas. [3] (iii) List any three impacts of siltation of waterways. [Recall] Lila resides in a remote village with her family and relies on fuelwood [3] (iv) for cooking. Identify any three consequences of utilizing fuelwood as [Understanding] a cooking fuel.

SECTION B

(Answer any four questions from this **Section**.)

Question 4

(i) The picture given below is of water conservation management.

[5]



- (a) Identify the type of water conservation management.
- (b) Describe any four aims of the identified water management.

[Apply]

(ii) What is a leachate? State any three effects of leachate.

[Recall]

[5]

[5]

(iii) Give example of an alternative for timber in paper Industry.Why is there a need to find alternatives to timber? (Any four points)

[Analysis]

Question 5

(i) Why is the secondary treatment in a water treatment plant called biological treatment? What happens in tertiary treatment? After which stage it is safe to discharge the treated water in water bodies and why?

[Apply]

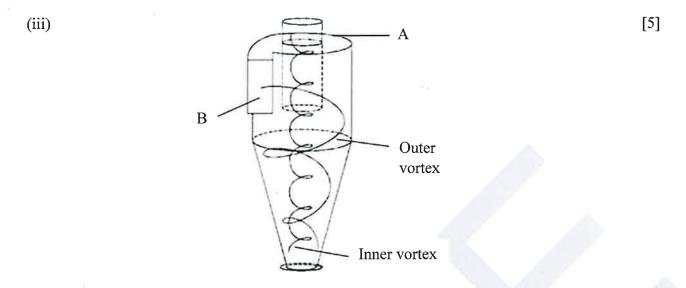
[5]

[5]

(ii) NGOs work for the betterment of the society and environment. In this context state the role of NGOs in Child's Welfare.

[Understanding]

T25 891 – SPECIMEN 9 of 12



A diagram of an air pollution control device is shown above.

Name the device and explain the working principle Identify the entry point of the dust laden air and the exit point for the clean air in the above diagram labelled as 'A' and 'B'.

[Recall]

Question 6

- (i) Enumerate the role of local people in Joint Forest Management? [5] [Recall]
- (ii) 'Wetlands are vital for human survival.' List any three importance of wetlands. Name the international convention for protecting the wetlands. Where was the Convention adopted? [Recall]
- (iii) What is TTZ? List any three legislative measures to protect the Taj

 [5]

 Mahal monument.

Question 7

(i) Plastic has become an integral component of our daily lives, encompassing various items such as food packaging, toys, storage materials, furniture, household appliances, and electronic devices. According to estimates from the United Nations, the world consumes a staggering 500 billion plastic bags annually, with half of this amount comprising single-use plastics like bags, straws, cups, plates, and bottles.

[5]



- (a) Why should single-use plastic be banned? Give any two reasons.
- (b) Suggest any three alternatives that can be used to replace plastic.

[Application]

(ii) Explain the steps involved in Environmental Impact assessment.

[Recall]

[5]

[5]

Modern technology brings with it several advantages, yet it is not (iii) without its limitations. Enumerate any three advantages and any two limitations of modern technology.

[Understanding]

Question 8

(i) List any five problems faced with large dams.

[Analysis]

[5]

[5]

[5]

(ii) Enumerate any five positive actions you have taken in the past week to contribute to the conservation of our natural resources.

(iii) 'Bubble Theory' is one of the strategies for reducing air pollution. [Analysis]

Why it is known as Bubble Theory? Give an account of the theory.

[Recall]

Question 9

Study the picture and answer the questions that follows: (i)

[5]



11 of 12 **T25 891 - SPECIMEN**

- (a) Where is it situated?
- (b) List *any four* sustainable practices adopted by the people of Auroville.

[Recall]

[5]

[5]

(ii) Remote sensing satellites play a crucial role in gathering information about Earth's surface. In this context state any five applications of remote sensing technology contributing to fields of environmental monitoring, urban planning, agriculture, and disaster response.".

[Understanding]

- (iii) Water is the elixir of life, a very important natural resource. Your science teacher wants you to prepare a project plan for assessment. "How to save water?"
 - a) Write any three ways that you will suggest to bring awareness in your neighbourhood.
 - (b) Recommend any two methods to prevent further depletion of the underground water table.

[Application]

T25 891 – SPECIMEN 12 of 12



ICSE 2025 – SPECIMEN PAPER DRAFT MARKING SCHEME – ENVIRONMENTAL APPLICATIONS

Questi	on 1		[20]
(i)	(b)	Nitrogen dioxide	
(ii)	(b)	Permissible emission norms for vehicles	
(iii)	(d)	Tree break	
(iv)	(d)	Forests do not contribute to soil conservation.	
(v)	(a)	1 and 2	
(vi)	(d)	A is true but R is false.	
(vii)	(d)	A is true but R is false.	
(viii)	(c)	Replace thermal power with solar power	
(ix)	(c)	Bus rapid transit system	
(x)	(b)	It saves water	
(xi)	(b)	1 and 3	
(xii)	(b)	Silk	
(xiii)	(b)	Stored falling water	
(xiv)	(b)	3, 1, 2 and 4	
(xv)	(a)	More than 100 KW	
(xvi)	(a)	1, 2 and 3	
(xvii)	(a)	Solid waste	
(xviii)	(c)	Financial aid given by a government	
(xix)	(b)	Sewage - Effluent treatment plant	
(xx)	(c)	Outer space	
Questi	on 2		
(i)	Whe	en skilled persons go to foreign countries for the sake of job and opportunities.	[2]
(ii)		an imaginary division between developed (north) and developing (south) countries. North includes—USA, Canada, France and South includes India, Pakistan, Sri Lanka	[2]

T25 891 - SPECIMEN 1 of 6



Craftsmen or Artisan To support traditional Indian craftspeople, many of them women and village based, with the objective of helping craftspeople regain their place in the economic mainstream To project India's craft and cultural heritage and create its awareness among the Indian urban consumers Concern for environmental protection Need to conserve the resources for future generation It is a pro-stable economic growth. It is a pro-stable economic growth. To project India's craft and cultural heritage and create its awareness among the Indian urban consumers Concern for environmental protection Need to conserve the resources for future generation It is a pro-stable economic growth.	[3] [2]
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Effects the aquatic life	[3]
Chances of flood	
Irritation in throat and redness of eyes.	[3]
Respiratory tract infection.	
Early aging	
tershed	[1+4]
It is a surface area where rain water is collected and drained through a common point.	
To conserve soil in the area.	
To conserve water for sustainable use.	
	It is a surface area where rain water is collected and drained through a common point. To conserve soil in the area.

T25 891 - SPECIMEN 2 of 6



(ii)		
(11)	It is a foul odoured yellowish orange fluid coming out from a garbage heap due to the precipitation of water.	[5]
	- It will contaminate the aquifers, if it reaches down.	
	- It will pollute the soil, if it reaches to a field with rainwater.	
	- It will pollute the surface water	
(iii)	Bagasse	[5]
, ,	- To stop deforestation	3
	- To prevent soil erosion	
	- To Save the wild life	
	- To maintain the O ₂ – CO ₂ balance	
		.6.
Quest	tion 5	
(i)	Secondary treatment requires microorganisms for breaking down the nutrient present in the waste water.	[5]
	In tertiary treatment the waste water is treated with chlorine or UV rays to kill the pathogens	
	present in the water.	
		*
(ii)	After the secondary treatment the nitrate and the phosphate content of water get reduced as the microorganisms feed on the nutrient in presence of oxygen. It is safe to discharge the waste water after secondary treatment, it will not cause eutrophication.	[5]
(ii)	After the secondary treatment the nitrate and the phosphate content of water get reduced as the microorganisms feed on the nutrient in presence of oxygen. It is safe to discharge the waste water after secondary treatment, it will not cause eutrophication. - Shelter for the homeless children.	[5]
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	Present in the water. After the secondary treatment the nitrate and the phosphate content of water get reduced as the microorganisms feed on the nutrient in presence of oxygen. It is safe to discharge the waste water after secondary treatment, it will not cause eutrophication. - Shelter for the homeless children Providing food and basic education to the children - Setting up health camps for the children Fighting for children's right - To work against child trafficking Cyclone separator. It is an air pollution control device At the bottom of the cyclone body, the gas turns and spirals up through the center of the tube and out of the top of the cyclone The centrifugal force of the spinning gas stream forces large particles toward the cyclone walls.	

T25 891 - SPECIMEN 3 of 6



O u co	ion 6	
(i)	Joint forest management is a joint venture of local people and forest officers.	[5]
(1)	- The local people know the forest very well, so their knowledge is used while planning to conserve the forest.	[2]
	- The local people are the guardian of the forest.	İ
	- They act as tour guide for the tourist.	
	- They use the non- timber products of the forest.	
(ii)	- They act as a sponge and can adsorb large amount of water and releases slowly.	[5]
	- It supports a large variety of flora and fauna.	
	- Prevents flood.	
	Ramsar Convention	
	- It took place in Ramsar in Iran.	
		7
(iii)	Taz trapezium Zone. It is a 10,400 sq Km protected area surrounding three heritage building Agra Fort, Fatehpur Sikri and Taj Mahal	[5]
	- Tulsi plantation around the area.	
	- No fuel driven vehicle around Taj mahal	
		1
	- No industry in the close vicinity of Taj Mahal, if there are industries then they have to ban the use of coal as fuel and install air pollution control devices	
Quest	to ban the use of coal as fuel and install air pollution control devices	
Quest	to ban the use of coal as fuel and install air pollution control devices	[2+3]
	to ban the use of coal as fuel and install air pollution control devices ion 7	[2+3]
	to ban the use of coal as fuel and install air pollution control devices ion 7 (a) It is non-biodegradable.	[2+3]
	to ban the use of coal as fuel and install air pollution control devices ion 7 (a) It is non-biodegradable. - Burning of plastic releases toxic gases.	[2+3]
	to ban the use of coal as fuel and install air pollution control devices ion 7 (a) It is non-biodegradable. - Burning of plastic releases toxic gases. - Single use plastic is made by using a variety of toxic chemicals and colours.	[2+3]
	to ban the use of coal as fuel and install air pollution control devices ion 7 (a) It is non-biodegradable. - Burning of plastic releases toxic gases. - Single use plastic is made by using a variety of toxic chemicals and colours. - This can cause harm to the environment. (any two)	[2+3]
	to ban the use of coal as fuel and install air pollution control devices ion 7 (a) It is non-biodegradable. - Burning of plastic releases toxic gases. - Single use plastic is made by using a variety of toxic chemicals and colours. - This can cause harm to the environment. (any two) (b) - Paper	[2+3]
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T25 891 - SPECIMEN 4 of 6



	· · · · · · · · · · · · · · · · · · ·	
(iii)	Advantages:	[3+2]
	- The work can be done much faster and with precision	
	- The productivity is very high.	
	- Advancement in all fields – medical, engineering, pharmacology, agriculture	
	- The robotics and AI are the product of modern technology (Any three)	
	Limitations:	
	- Short term gain.	
	- People are becoming lazy, dependence on machine has increased	
	- Unemployment, as machines and robots are working instead of humans. (Any two)	
Quest	ion 8	
(i)	- Inundation of forest or large area of land.	[5]
	- The river is deprived of its sediment load.	1
	- The volume of water of the river decreases which affects the aquatic life.	
	- Global warming due to generation of green house gases.	
	- Displacement and dislodgement of large population of people due to dam construction	
(ii)	- I refused the plastic bag given by the vegetable vendor and use my cloth bag.	[5]
	- I took bath using a bucket and mug instead of the shower.	
	- I made a compost bin and asked my mother to put the kitchen's biodegradable waste in the bin.	
	- Putting off the light and fan or Ac switch when nobody is there in the room.	
	- It was my birthday I got a lot of gifts, I carefully opened the gift wrap, took out the gift, neatly folded the wrap and kept it for reusing.	
(iii)	It is an air pollution control concept. Here atmosphere is considered as a glass 'Bubble' and the gaseous pollutants are entering in the bubble, so it is called the 'Bubble Theory'	[5]
	- The term 'bubble' means, an air pollution control system, which permits aggregate measurement of allowable emissions, for a single category of pollutant.	
	- A plant complex with several facilities can decrease pollution from some facilities while increasing it from others, so long as total results are equal to or better than previous limits.	
Questi	on 9	
(i)	(a) In Tamil Nadu	[1+4]
	(b) - Harnessing renewable source of energy, such as solar, wind etc.	
	- Waste management- segregation of waste and practice of 3 R's.	
	- Organic farming.	
	- Rain water harvesting.	
	- They use cycle or electric vehicles for transportation. (any four)	

T25 891 - SPECIMEN 5 of 6



(ii)	Env	ironn	nental Monitoring: Studying climate patterns and changes.	[5]
	Agr	icultu	re: Monitoring soil conditions and moisture levels.	
	Urb	an Pla	anning: Land-use planning and development.	
	I .		Management: Early detection and monitoring of natural disasters like floods, kes, and wildfires.	
		`		
(iii)	(a)		A placard rally for the importance of water.	[5]
		13-	Organising a street play with the help of the local club.	
) = 6	Arranging a quiz competition for the adults using audio-visual. A token prize for the winner.	
	(b)	•	Rain water harvesting for recharging the aquifer.	
		-	Not to dig too many tube wells.	
		<u>=</u>	Recycling of waste water.	
		74		

T25 891 - SPECIMEN 6 of 6