Roll No	•••••					Question Booklet Number
O. M. R. Serial No.						

# M. Sc. (Industrial Chemistry) (Fourth Semester) EXAMINATION, 2022-23

### ENVIRONMENTAL IMPACT ASSESSMENT

Paper Code						
M	S	I	C	4	0	1

Time : 1:30 Hours ]

Questions Booklet Series

A

[ Maximum Marks : 75

#### **Instructions to the Examinee:**

- 1. Do not open the booklet unless you are asked to do so.
- 2. The booklet contains 100 questions.

  Examinee is required to answer 75 questions in the OMR Answer-Sheet provided and not in the question booklet.

  All questions carry equal marks.
- 3. Examine the Booklet and the OMR Answer-Sheet very carefully before you proceed. Faulty question booklet due to missing or duplicate pages/questions or having any other discrepancy should be got immediately replaced.

## परीक्षार्थियों के लिए निर्देश :

- प्रश्न-पुस्तिका को तब तक न खोलें जब तक आपसे कहा न जाए।
- 2. प्रश्न-पुस्तिका में 100 प्रश्न हैं। परीक्षार्थी को 75 प्रश्नों को केवल दी गई OMR आन्सर-शीट पर ही हल करना है, प्रश्न-पुस्तिका पर नहीं। सभी प्रश्नों के अंक समान हैं।
- 3. प्रश्नों के उत्तर अंकित करने से पूर्व प्रश्न-पुस्तिका तथा

  OMR आन्सर-शीट को सावधानीपूर्वक देख लें। दोषपूर्ण

  प्रश्न-पुस्तिका जिसमें कुछ भाग छपने से छूट गए हों या

  प्रश्न एक से अधिक बार छप गए हों या उसमें किसी

  अन्य प्रकार की कमी हो, तो उसे तुरन्त बदल लें।

(शेष निर्देश अन्तिम पृष्ठ पर)

(Remaining instructions on the last page)

## (Only for Rough Work)

MSIC	-401		(3)			Set-	Α
	(D)	1970			(D)	National Green Tribute	
	(C)	1971			(C)	National Greek Tribunal	
	(B)	1982			(B)	National Green Tribunal	
	(A)	1972			(A)	Nation Green Tribunal	
	year	:		7.	Full f	form of NGT is:	
3.	Stoc	kholm Conference was held in the			(D)	2(4)	
		Environment and Development			(C) (D)	2(d)	
	(D)	World Commission on			(C)	2(b)	
		and Development			(A) (B)	2(e)	
	(C)	World Commission on Ecology			(A)	2(a)	
		Environment and Development		-		Act 1986 :	
	(B)	World Conference on		6.	Defin	uition of hazardous substance is i	n
	(- <del>-</del> /	and Development			(D)	2012	
	(A)	World Council on Environment			(C)	2007	
2.	Full 1	form of WCED is :			(B)	2006	
		Environment and Development			(A)	2016	
	(D)	United Nations Conferences on			came	in:	
	(0)	Ecology and Development		5.	Haza	rdous waste management rule	es
	(C)	Environment and Development  United Nations Conference on			(D)	1990	
	(B)	United Nations Conference on			(C)	1982	
		Environmental and Development			(B)	1972	
	(A)	United National Conference on			(A)	1992	

4.

Rio Conference was in the year:

Full form of UNCED is:

1.

- 8. Full form of UNCHE is:
  - (A) Union Nations Commission on the Human Environment
  - (B) United National Conference on the Human Environment
  - (C) United Nations Conference on the Human Ecology
  - (D) United Nations Conference on the Human Environment
- 9. Sustainable development was explained first time in :
  - (A) World Development Report
  - (B) First Earth Summit Report
  - (C) Brundtland Commission Report
  - (D) Human Development Report
- 10. First stage of EIA cycle:
  - (A) Scoping
  - (B) Screening
  - (C) Public hearing
  - (D) Appraisal
- 11. When did Environmental (Protection)
  Act, 1986 come into force?
  - (A) 01 March, 1986
  - (B) 01 April, 1986
  - (C) 01 May, 1986
  - (D) 19 November, 1986

- 12. The term Environmental Pollution has been defined under which section of the Environment Protection Act. 1986?
  - (A) 2(c)
  - (B) 2(b)
  - (C) 2(d)
  - (D) 2(a)
- 13. This emphases on protecting the future generation :
  - (A) Intragenerational Equity
  - (B) Intergenerational Equity
  - (C) Both (A) and (B)
  - (D) None of the above
- 14. The Earth Summit held at Rio-de-Janeiro, Brazil was on :
  - (A) The control of Transboundary

    movements of Hazardous Waste
  - (B) United Nations Conference on the Human Environment
  - (C) United Nations Conference on

    Environment and Development
  - (D) None of the above

15.	When variations occur within a species	19.	Cryopreservation of plant seeds and
	due to new combinations of genes, this		pollen is done at a very low temperature
	is called diversity.		of – 196°C by using:
	(A) species		(A) Ice
	(B) genetic		(B) Liquid Nitrogen
	(C) ecosystem		(C) CCl <sub>4</sub>
	(D) None of the above		
16.	Shanon-Wiener index gives a measure		(D) NH <sub>3</sub>
	ofdiversity.	20.	Species restricted to a particular area
	(A) species		are called::
	(B) genetic		(A) Endemic
	(C) ecosystem		(B) Extinct
	(D) All of the above		(C) Alpha
17.	Which of the following is an example		(D) None of the above
	of ex-situ conservation ?	21.	Which of the following belongs to in
	(A) Gene bank		situ conservation ?
	(B) Biosphere reserve		(A) Zoo
	(C) Sanctuary		(B) Gene bank
	(D) All of the above		(C) Sanctuaries
18.	There are 36 biodiversity hot spots in		(D) None of the above
	the world, of which exist in	22.	includes the list of endangered
	India.		species of plants and animals.
	(A) 2		(A) Red Data Bank
	(B) 3		(B) Red Data Book
	(C) 4		(C) Blue Data Bank
	(D) 5		(D) Blue Data Book

23.	The main pollutants emitted by	27.	Pollution related acts has not include:
	Thermal Power Plants areand		(A) Water (Prevention and Control of
			Pollution) Act, 1974
	(A) $SO_2$ and $CO_2$		(B) Right to information
	(B) CO and NO		· · ·
	(C) Flyash and SO <sub>2</sub>		(C) The Environment (Protection)
	(D) NO <sub>2</sub> and Fly ash		Act, 1986
24.	As per Environmental (Protection)		(D) None of the above
	(Second Amendment) Rules, 1999 the	28.	Which article in constitution recognizes
	permissible noise levels for firecrackers		environmental protection of one of the
	aredB.		fundamental duties of every citizen in
	(A) 110		•
	(B) 115		India ?
	(C) 120		(A) Article 42
	(D) 125		(B) Article 48A
25.	Bhopal gas tragedy occurred due to		(C) Article 51A (g)
	leakage of:		(D) Article 52
	(A) MIC		
	(B) DDT	29.	Which of the following gases has
	(C) SO <sub>2</sub>		maximum contribution to enhanced
	(D) Dioxins		greenhouse effect ?
26.	B. O. D. is always::		(A) CFCs
	(A) lower than COD		(B) CH <sub>4</sub>
	(B) higher than COD		(2) 31-4
	(C) equal to COD		(C) CO <sub>2</sub>
	(D) may be higher or lower in different cases		(D) N <sub>2</sub> O

(6)

Set-A

MSIC-401

30.	The most important agents for ozone	34.	September 16-23 is observed as:
	depletion are :		(A) Ozone week
	(A) Methane		(B) Wildlife week
	(B) CFC's		(C) Biodiversity week
	(C) Nuclear fallout		(D) None of the above
	(D) NO <sub>2</sub>	35.	Environment friendly products are
31.	Rain water harvesting has the following		given ISOcertification.
	advantages:		(A) 12,000
	(A) Recharges ground water		(B) 14,000
	(B) Avoids flooding of roads		(C) 9,001
	(C) Reduces run-off loss		(D) 10,000
	(D) All of the above	36.	Full form of MoEF is:
32.	The 3R approach of resource stands for		(A) Maintenance of Environment and
	Reduce, Reuse and:		Forests
	(A) Restart		(B) Maintenance of Enriched Forests
	(B) Replace		(C) Ministry of Environment and
	(C) Recycle		Forests
	(D) None of the above		(D) None of the above
33.	Act provides for setting up of		(D) None of the above
	National Parks and Wildlife	37.	Eco-clubs involves:
	sanctuaries.		(A) Army Men in Environment
	(A) The Air (Prevention and Control		Protection Activities
	Pollution) Act, 1981		(B) Eco-friendly Products
	(B) Wildlife (Protection) Act		(C) School children to participate in
	(C) Both of the above		environment awareness campaign
	(D) None of the above		(D) None of the above

38.	Ecomark of our country is:	42.	The three pillars of sustainable
	(A) Earthen mug		development are:
	(B) Earthen pitcher		(A) Environment, Economy and
	(C) Earthen saucer		Society (B) Environment, Economy and
	(D) Earthen lamp		Forests
	(b) Barthen tamp		(C) Economy, Forests and Society
39.	The social domain of sustainable		(D) None of the above
	development connects:	43.	Extended working domains of
	(A) societies and their economy		sustainable development incorporates :
	(B) societies and environment		(A) industries and technologies
	(C) plants and animals		(B) conservation of biodiversity and
	(D) None of the above		natural resources
	(2) 1,010 01 010 000,0		<ul><li>(C) conservation of waterfalls</li><li>(D) new ideas</li></ul>
40.	The statement "total welfare of human		<b>,</b>
	beings does not decline over time"	44.	Which statement is true?
	reflects:		(A) Transformative growth is science
	(A) interlinkages		and technology based (B) Transformative growth is
	(B) dynamic efficiency		monetary based only
	(C) ecosystem		(C) Transformative growth focuses
	•		on better economy at any cost
	(D) None of the above		(D) All of the above
41.	Increase in amount of goods and	45.	Biodiversity has , and
	services produced over a period of time		
	defines:		(A) commercial value, ethical value
	(A) biodiversity		and social value  (B) social value, ethical value and
	•		(B) social value, ethical value and aesthetic value
	(B) environment growth		(C) commercial value, aesthetic
	(C) economic growth		value, ethical value
	(D) All of the above		(D) None of the above

- 46. Blue Baby syndrome is caused by the presence of ...... in drinking water.
  - (A) Phosphates
  - (B) Carbonates
  - (C) Sulphates
  - (D) Nitrates
- 47. Which of the following has more penetration power?
  - (A) Alpha-Particles
  - (B) β-particles
  - (C) Gamma-rays
  - (D) None of the above
- 48. The IBWL was created in:
  - (A) 1948
  - (B) 1950
  - (C) 1952
  - (D) 1954
- 49. Establishment of central and state boards for pollution control comes under:
  - (A) Water (Prevention and Control of Pollution) Act, 1974
  - (B) The Air (Prevention and Control of Pollution) Act, 1981
  - (C) The Environment (Protection)
    Act, 1986
  - (D) None of the above

- 50. 'The encourage the industries for recovery of biogas, energy and reusable materials, comes under:
  - (A) The Environment (Protection)

    Rules, 1986
  - (B) Water (Prevention and Control of Pollution) Act, 1974
  - (C) Forest (Conservation) Act, 1980
  - (D) None of the above
- 51. Which act made provisions for allowing some non-forest activities in forest, without cutting trees?
  - (A) Forest (Conservation) Act, 1980
  - (B) 1992 Amendment in Forest Act
  - (C) Wildlife (Protection) Act, 1972
  - (D) None of the above
- 52. Which act provides for the constitution of central zoo authority?
  - (A) Forest (Conservation) Act, 1980
  - (B) 1992, Amendment in Forest Act
  - (C) Wildlife (Protection) Act, 1972
  - (D) None of the above

	(A)	The Indian Association for		of EIA.
		Impact Assessment		(A) 2nd
	(B)	The International Association for		(B) 3rd
	` /	Impact Assessment		(C) 4th
	(C)	The Internal Association for		(D) 5th
	(C)		58.	Main activities of the project, location
		Impact Assessment	50.	and baseline condition of environment
	(D)	None of the above		are mentioned in :
54.	Full	form of EAC is:		
	(A)	Environment Action Council		(A) First paragraph of EIS
	(B)	Environment Appraisal		(B) Second paragraph of EIS
	(D)	Committee		(C) Third paragraph of EIS
	( <b>a</b> )			(D) None of the above
	(C)	Environment Action Committee	59.	The predicted environmental impacts
	(D)	Environment Appraisal Council		on surrounding land, water, air and
55.	The f	first stage of EIA is:		ecological impacts must discussed in
	(A)	Screening		paragraph of EIS.
	(B)	Scoping		(A) 2nd
	(C)	Public opinion		(B) 3rd
	(D)	None of the above		(C) 4th
	(D)	None of the above		(D) 5th
56.	The	number of stages in EIA is:	60.	EMP is:
	(A)	2		(A) Expert Measure Plan
	(B)	3		(B) Expert Management Plan
	(C)	4		(C) Environment Management Plan
	(D)	5		(D) Environment Monitoring Plan
MSIC	-401		(10)	Set-A

53. IAIA stands for:

57. Monitoring and Auditing is ...... stage

61.	DMP is:	65.	The most common and oldest method
	(A) Disaster Management Plan		used to dump solid waste is:
	(B) Disaster Monitoring Plan		(A) River
	(C) Disaster Measuring Plan		(B) Ocean
	(D) None of the above		(C) Landfill
62.	EIA opines on how		(D) None of the above
	toenvironmental effects of any	66.	Latest amendment in hazardous waste
	developmental project.		management rules came in:
	(A) minimize		(A) 2008
	(B) maintain		(B) 2012
	(C) maximize		(C) 2016
	(D) None of the above		(D) 2020
63.	The second stage of EIA is:	67.	Modern concept of sustainable
	(A) Screening		development focuses more on:
	(B) Scoping		(A) environmental protection
	(C) Public opinion		(B) social development
	(D) None of the above		(C) economic development
64.	is a process of burning municipal		(D) All of the above
	solid waste under suitable temperature	68.	Number of sustainable development
	and conditions in a furnace.		goals by United Nations is:
	(A) Recycling		(A) 14
	(B) Landfill		(B) 15
	(C) Incineration		(C) 16
	(D) Vermicomposting		(D) 17

69.	is the example of non-	73.	The	Environment (Protection) Act,
	renewable natural resources.		1986	consists of:
	(A) Air		(A)	4 chapters
	(B) Water		(B)	5 chapters
	(C) Solar		(C)	6 chapters
	(D) Petroleum		(D)	7 chapters
70.	The process which improves efficiency	74.	Whic	ch statement defines biodiversity?
	of solid waste management is:		(A)	Various flora and fauna in many
	(A) collection			forests
	(B) composting		(B)	Various populations of one
	(C) disposal			species in one forest
	(D) processing		(C)	Various flora and fauna in one
				forest
71.	CBA is performed during:		(D)	None of the above
	(A) Implementation	7.5	C .	
	(B) Design phase	75.	Susta	ainable development encourages:
	(C) Feasibility study phase		(A)	preservation of the resources for
	(D) Maintenance phase			the need of future generation
			(B)	growth to meet current needs,
72.	EIAs commenced in the year:			preservation for the needs of
	(A) 1960s			future and change in all respects
	(B) 1970s			of life
	(C) 1980s		(C)	a change in all respects of life
	(D) 1990s		(D)	None of the above

(12)

Set-A

MSIC-401

76.	Environmental protection has been	80.	Every matrix method gives project
	made a fundamental duty of every		on one dimension and their
	citizen of India under Article :		corresponding environmental on
	(A) 51 A()		the other.
	(A) 51-A(g)		(A) activities, impacts
	(B) 51 (C) 51 A(a)		(B) cost, impact
	(C) 51-A(a) (D) 51-A(e)		(C) plan, issues
	(D) 31-A(t)		(D) None of the above
77.	The number of biodiversity hotspots in		
	the world is:	81.	A total 8800 possible interactions with
	(A) 16		environment are reported in:
	(B) 26		(A) Simple matrix
	(C) 36		(B) Interaction matrix
	(D) 46		(C) Leopold matrix
78.	Section 2(a) of the Environment		(D) None of the above
	(Protection) Act, 1986, environment refers to:	82.	GIS stands for :
	(A) air, water and land		(A) General Information System
	(B) other living creatures, plants,		(B) Geographical Information System
	micro-organism and property		(C) General Implementation System
	(C) interrelationship among air,		(D) None of the above
	water, land and human beings	0.0	
	(D) All of the above	83.	In which method a set of maps of
79.	CBA compares different projects purely		project area's environmental
	on a basis.		characteristics are created?
	(A) cost		(A) Matrix
	(B) feasibility		(B) Checklist
	(C) ground		(C) Overlays
	(D) None of the above		(D) Networks

84.	The number of parameters that can be	88.	Which EIA tool best identifies action
	overlaid is limited to for clarity.		effect- impact relations ?
	(A) 10		(A) Checklist
	(B) 12		(B) Networks
	(C) 14		(C) Interaction matrices
	(D) 16		(D) SWOT
85.	Impact tree or sequence diagram is created in:	89.	A short-term environment impact
	(A) checklist method		assessment has a time period of:
	(B) overlays		(A) 2-5 years
	(C) networks		(B) 5-10 years
	(D) None of the above		(C) 5-10 years
86.	Draft EIA notification has reduced the		(D) 10-15 years
	time of public hearing to how many	90.	Water Act is a main law in action used
	days?		for EIA formulated in
	(A) 40 days		(A) 1962
	(B) 30 days		
	(C) 20 days		(B) 1982
	(D) 10 days		(C) 1974
87.	Which of the following is not included		(D) 1986
	during EIA ?	91.	EIA was introduced in:
	(A) Quantitative description		(A) 1972
	measuring higher, medium and		(B) 1978
	lone impacts		(C) 1982
	(B) A detailed assessment of the planned project and selected		(D) 1986
	alternative compared to the	92.	Screening criteria is based on:
	baseline conditions		(A) type and location of development
	(C) All data collection, analysis and		(B) partial development
	developed plans summarized		(C) type and difficulties to
	together in a well structured		development development
	document		-
	(D) None of the above		(D) None of the above

93.	Lead agencies decide whether is	97.	The fourth stage of EIA process
	required or not ?		is:
	(A) EIS		(A) scoping
	(B) EIA		(B) screening
	(C) MOEF		(C) public opinion
	(D) SPCB		(D) appraisal by EAC
	(D) SI CD	98.	The acceptance or rejection of a project
94.	EIA is an intrinsic link between		solely based on:
	and economic growth.		(A) EAC
	(A) ecological		(B) EIS
	(B) domestic		(C) EIA
	(C) pollution		(D) IAIA
95.	(D) environment	99.	Category projects do not require
			EIA clearance.
	EIA is supporting the goals of		(A) A
	environmental protection and		(B) A <sub>1</sub>
	(A) economic growth		(C) B <sub>1</sub>
	(B) sustainable development		(D) B <sub>2</sub>
	(C) involvement of public		( ) 2
	(D) None of the above	100.	category projects are evaluated
			by state level EAC.
96.	The proof of public hearing and public		(A) A
	participation issued by		$(B)$ $A_1$
	(A) CBCB		(C) B <sub>1</sub>
	(B) SEA		(D) B <sub>2</sub>
	(C) MOEF		(D) D <sub>2</sub>
	(D) SBCB		

4. Four alternative answers are mentioned for each question as—A, B, C & D in the booklet. The candidate has to choose the correct answer and mark the same in the OMR Answer-Sheet as per the direction:

### Example:

### Question:

Q. 1 (A) (C) (D) (Q. 2 (A) (B) (D) (D)

Q.3 A  $\bigcirc$  C D

Illegible answers with cutting and over-writing or half filled circle will be cancelled.

- 5. Each question carries equal marks. Marks will be awarded according to the number of correct answers you have.
- 6. All answers are to be given on OMR Answer sheet only. Answers given anywhere other than the place specified in the answer sheet will not be considered valid.
- 7. Before writing anything on the OMR Answer Sheet, all the instructions given in it should be read carefully.
- 8. After the completion of the examination candidates should leave the examination hall only after providing their OMR Answer Sheet to the invigilator. Candidate can carry their Question Booklet.
- 9. There will be no negative marking.
- 10. Rough work, if any, should be done on the blank pages provided for the purpose in the booklet.
- 11. To bring and use of log-book, calculator, pager and cellular phone in examination hall is prohibited.
- 12. In case of any difference found in English and Hindi version of the question, the English version of the question will be held authentic.
- Impt.: On opening the question booklet, first check that all the pages of the question booklet are printed properly. If there is ny discrepancy in the question Booklet, then after showing it to the invigilator, get another question Booklet of the same series.

4. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार सम्भावित उत्तर—
A, B, C एवं D हैं। परीक्षार्थी को उन चारों विकल्पों में से
सही उत्तर छाँटना है। उत्तर को OMR आन्सर-शीट में
सम्बन्धित प्रश्न संख्या में निम्न प्रकार भरना है:

### उदाहरण :

प्रश्न :

 प्रश्न 1 (A)
 (C)
 (D)

 प्रश्न 2 (A)
 (B)
 (D)

 (A)
 (D)

अपठनीय उत्तर या ऐसे उत्तर जिन्हें काटा या बदला गया है, या गोले में आधा भरकर दिया गया, उन्हें निरस्त कर दिया जाएगा।

- 5. प्रत्येक प्रश्न के अंक समान हैं। आपके जितने उत्तर सही होंगे, उन्हीं के अनुसार अंक प्रदान किये जायेंगे।
- 6. सभी उत्तर केवल ओ. एम. आर. उत्तर-पत्रक (OMR Answer Sheet) पर ही दिये जाने हैं। उत्तर-पत्रक में निर्धारित स्थान के अलावा अन्यत्र कहीं पर दिया गया उत्तर मान्य नहीं होगा।
- 7. ओ. एम. आर. उत्तर-पत्रक (OMR Answer Sheet) पर कुछ भी लिखने से पूर्व उसमें दिये गये सभी अनुदेशों को सावधानीपूर्वक पढ लिया जाये।
- 8. परीक्षा समाप्ति के उपरान्त परीक्षार्थी कक्ष निरीक्षक को अपनी OMR Answer Sheet उपलब्ध कराने के बाद ही परीक्षा कक्ष से प्रस्थान करें। परीक्षार्थी अपने साथ प्रश्न-पुस्तिका ले जा सकते हैं।
- 9. निगेटिव मार्किंग नहीं है।
- 10. कोई भी रफ कार्य, प्रश्न-पुस्तिका के अन्त में, रफ-कार्य के लिए दिए खाली पेज पर ही किया जाना चाहिए।
- 11. परीक्षा-कक्ष में लॉग-बुक, कैलकुलेटर, पेजर तथा सेल्युलर फोन ले जाना तथा उसका उपयोग करना वर्जित है।
- 12. प्रश्न के हिन्दी एवं अंग्रेजी रूपान्तरण में भिन्नता होने की दशा में प्रश्न का अंग्रेजी रूपान्तरण ही मान्य होगा।

महत्वपूर्ण : प्रश्नपुस्तिका खोलने पर प्रथमतः जाँच कर देख लें कि प्रश्न-पुस्तिका के सभी पृष्ठ भलीभाँति छपे हुए हैं। यदि प्रश्नपुस्तिका में कोई कमी हो, तो कक्षनिरीक्षक को दिखाकर उसी सिरीज की दूसरी प्रश्न-पुस्तिका प्राप्त कर लें।