

**University of Mumbai**  
**Online Examination 2020**

**Program: BE Engineering**  
**Curriculum Scheme: R-2016**  
**Examination: Final Year Semester VIII**  
**Course Code: ILO8029      Course Name: Environmental Management**  
**Time: 1-hour      Max. Marks: 50**

1		Environmental education is important at
	a	Primary school stage only
	b	Secondary school stage only
	c	College stage only
	d	throughout life
2		Which of the following salts is the main cause of permanent hardness of water?
	a	Magnesium sulphate
	b	Magnesium bicarbonate
	c	Magnesium carbonate
	d	None of the above
3		Oceans exerts a great influence of the planets
	a	Weather
	b	Climate
	c	Precipitation
	d	Weather & Climate
4		Energy is released from fossil fuels when they are _____
	a	Pumped

	b	Cooled
	c	Burned
	d	Pressurized
5		Which of the following is incorrect, if we only achieve two out of three pillars of Sustainable Development?
	a	Social + Economic Sustainability = Equitable
	b	Social + Environmental Sustainability = Bearable
	c	Economic + Environmental Sustainability = Viable
	d	Political + Environmental Sustainability = Bearable
6		The technology which meets the sustainable development needs is often referred to as
	a	advanced technology
	b	appropriate technology
	c	sustainable technology
	d	adaptive technology
7		Depletion of the ozone layer is damaging to human health. Negative effects include
	a	Skin cancers
	b	Osteoporosis
	c	Dyspepsia
	d	None of the above
8		Which of the following is an example of impact of development activities on the Hydrosphere?
	a	Air pollution
	b	Soil pollution
	c	Soil erosion

	d	Water pollution
9		In a food chain animals constitute the:
	a	First trophic level
	b	Second trophic level
	c	Intermediate trophic level
	d	Ultimate trophic level
10		In a food chain, humans are
	a	Secondary consumers
	b	Primary consumer
	c	Producers
	d	Primary and secondary consumers both
11		Cattle, sheep and termites are responsible for the release of the following greenhouse gas
	a	Methane
	b	Carbon dioxide
	c	Nitrous oxide
	d	Carbon mono oxide
12		Green house gases are present in the
	a	Troposphere
	b	Stratosphere
	c	Mesosphere
	d	Thermosphere
13		This process removes Carbon dioxide from the atmosphere

	a	Deforestation
	b	Burning of Fossile Fuel
	c	Respiration
	d	Photosynthesis
14		In acid rain PH of water is
	a	Less than 5.6
	b	Around 7
	c	More than 7
	d	around 14
15		When following reacted with water in the air it produces carbonic acid
	a	Carbon
	b	Carbo Mono oxide
	c	Carbon dioxide
	d	Hydrogen
16		Ozone layer acts as a natural sunscreen which protects life on this earth against which rays
	a	Radio waves
	b	TV waves
	c	Microwaves
	d	Ultraviolet waves
17		How many oxygen particles are there in each ozone atom
	a	One
	b	Two

	c	Three
	d	Four
18		An endangered species is a species
	a	that is out of danger
	b	living in group
	c	that is in danger of becoming extinct
	d	living in dense forest
19		How many biogeographical zones are there in India
	a	2
	b	4
	c	7
	d	10
20		Which of the following is an example of ex situ conservation
	a	Biosphere reserve
	b	Gene bank
	c	Sanctuary
	d	National Park
21		Chernobyl disaster is associated with
	a	Nuclear Accident
	b	Landslide
	c	Earthquake
	d	Acid rain

22		Which colour is used for Radiation Hazards
	a	Red
	b	Orange
	c	Green
	d	Purple
23		Bhopal gas tragedy occurred due to leakage of
	a	MIC
	b	DDT
	c	SO <sub>2</sub>
	d	Dioxins
24		How many percentage of fissionable U-235 occurring in uranium?
	a	0.20%
	b	0.70%
	c	1.00%
	d	1.50%
25		Name the gas that causes irritation of skin, eye, nose and throat and may cause respiratory problems
	a	CO <sub>2</sub>
	b	NO <sub>2</sub>
	c	SO <sub>2</sub>
	d	Oxygen
26		The reason of Arc blast is
	a	Poor contact within electrical wire splices

	b	Radio frequency emissions from high-power transmitters
	c	Discharge of high electrical current through open air
	d	Failure to lock-out and tag-out electrical breakers
27		Following has the maximum genetic diversity in India
	a	Tea
	b	Mango
	c	Onion
	d	Teak
28		Which of the following is an extinct species
	a	Dugong
	b	Great Indian bustard
	c	Dodo
	d	Red Panda
29		These belongs to the category of primary consumer
	a	snakes and frogs
	b	Insects and cattle
	c	Eagles and snakes
	d	Water insects
30		EIA stands for what?
	a	Ecological Impact assessment
	b	Environmental Impact Audit
	c	Environmental Impact Assessment

	d	Environmental Impact Area
31		The most important organisms for an ecosystem are
	a	Herbivores
	b	Producers
	c	Carnivores
	d	Protozon
32		Every ecosystem has____major components
	a	One
	b	Two
	c	Three
	d	Four
33		Human is ____factor of an ecosystem
	a	Physical
	b	Chemical
	c	Biological
	d	Logical
34		Autotrophic components are
	a	producers
	b	consumers
	c	Decomposers
	d	Composers
35		The following are dependant on others for food



	a	Autotrops
	b	Hetrotrops
	c	Cryptotop
	d	Protozon
36		Name the group of species which exploit the abiotic and biotic resourses in asimilar way?
	a	Guild
	b	Ecads
	c	Biomes
	d	Community
37		Who proposwd the term Ecosystem?
	a	Grinnel
	b	Turesson
	c	A.G.Tansley
	d	Lindeman
38		Which of the following organism eats feces
	a	Fungus
	b	Bacteria
	c	Earthworm
	d	Dung beetle
39		What is the first place energy starts in a food chain
	a	Sun
	b	Plants

	c	Animals
	d	Water
40		Anything that organism needs to live
	a	Carrying capacity
	b	Resources
	c	Denitrification
	d	Succession
41		Water is an example of
	a	Abiotic factor
	b	Autotroph
	c	Biotic factor
	d	Hetrotroph
42		Which animal is not the apex predator but a predator to a mouse
	a	Rabbit
	b	Hawk
	c	snakes
	d	Grass
43		Diagram that shows transfer of energy in one line is a
	a	Food line
	b	Food Web
	c	Food court
	d	Food Chain

44		What is the Food chain?
	a	Long chain made of food
	b	Process of preparing food
	c	Food where locked by chain
	d	Pathway that energy and nutrients flow through the ecosystem
45		In an ecosystem, the energy flow is always
	a	Always unidirectional
	b	Always bidirectional
	c	In any direction
	d	Down direction
46		An orchid living on a tree exhibit
	a	predator
	b	Mutualism
	c	Commensalism
	d	Parasitic
47		Plants growing under direct shade are known as
	a	Sciophytes
	b	Monocots
	c	Psamophytes
	d	Heliophytes
48		Plant species with a wide range of genetic distribution evolve into a local population known as
	a	Ecotype

	b	population
	c	Ecosystem
	d	Biome
49		Which is the most recent pronouncement of the government's commitment to improving environmental conditions?
	a	National Environmental Policy
	b	National Water Policy
	c	Environment Act
	d	Air Policy
50		To which government the Ministry of Environment and Forests is the nodal agency?
	a	To the State Government
	b	To the Central Government
	c	To United Nations
	d	To Union Territories
51		What is called for the practice of regulating forest resources to meet the needs of society and industry while preserving the forest's health?
	a	Environmental protection
	b	Sustainable Forest Management
	c	Forest policy framework
	d	Unsustainable Forest Management
52		_____ is an organism used to gauge the quality of an ecosystem.
	a	Decomposers
	b	Predator
	c	Bio-remediator

	d	Bioindicator
53		What is an industrial symbiosis ?
	a	When industries co-operative sector produced a product by one of them is part of a larger product produced by the other.
	b	When industries co-operate by integrating environmental work so that a common environmental management system is established.
	c	When industries co-operate so that the waste of one serve as input in the production of the others as for example heat.
	d	When industries operate without any chemical pollution.
54		Which of the following is not amongst the responsibilities of Carroll Model ?
	a	Ethical responsibility
	b	Water responsibility
	c	Economic responsibility
	d	Legal responsibility
55		What is the best way to educate school kids about the environment?
	a	Teaching theory about environment in classes
	b	Showing pictures and videos of environment in projector screen
	c	Taking kids to national parks or sanctuaries
	d	Taking kids to amusement parks
56		What is defined by Jamison et al.
	a	CER
	b	CHR
	c	SHE
	d	CSR
57		Opportunities for social innovation are greatest when:

	a	CSR is aligned with a firm's core skills and capabilities.
	b	CSR spending of a firm is larger than that of its competitors.
	c	CSR is pursued by a firm to improve its reputation.
	d	CSR is pursued by a firm to enhance human capital.
58		Which one of the following is the apex organization in the country in the field of pollution control?
	a	Water Pollution Control Board
	b	Central Pollution Control Board
	c	Air pollution Control Board
	d	State Pollution Control Board
59		Which of the ISO 14000 series of standards focuses on evaluation of environmental performance?
	a	14010
	b	14020
	c	14030
	d	14031
60		EMS stands for
	a	Environmental management system
	b	Employees management system
	c	Engineering management system
	d	Equipment management system
61		Rectangle represents _____ While plotting flow chart
	a	Step in activity
	b	Decision making

	c	Direction of flow
	d	Project management
62		The role of management is not to
	a	Provide Resources
	b	Define EMS
	c	Monitor the effectiveness of the system
	d	Change the quality of product
63		ISO – 14001 gives stress on
	a	Plan – Do -check -Act
	b	Environmental protection
	c	Prevention rather than detection
	d	Prevent Pollution
64		P-D-C-A stands for
	a	Plan-Do-check-Act
	b	Plan-Do-correct-Act
	c	Proceed-Do-check-Act
	d	Proceed-Do-correct-Act
65		Which EMS model is most well known
	a	ACC
	b	EMAS
	c	ISO14001
	d	NEIC

66		14001:2004 vs. 14001:2015 are not different as
	a	Expansion in EMS coverage and scope
	b	Required interactions with external parties
	c	New requirements for leadership engagement
	d	New Equipment and prevent pollution
67		What is not the benefit of ISO 14001:2015?
	a	Improve resource efficiency
	b	Reduce waste
	c	Drive down costs
	d	Product Design
69		Which of the certification systems EMAS or ISO 14001 is the most challenging for
	a	EMAS
	b	ISO 14001
	c	Environment Audit
	d	Environment Standards
70		What is an intangible benefit of ISO 14000?
	a	Cost savings
	b	Reduced penalties
	c	Lower insurance premiums
	d	Improved community goodwill
71		EEA means
	a	European Energy Association



	b	Environmental Efficiency Audit
	c	European Environmental Agency
	d	Environment Engineering Agency
72		ISO was founded in the year of _____
	a	1945
	b	1946
	c	1948
	d	1947
73		What is the legal principle for handling waste
	a	Waste Hierarchy
	b	Precautionary Principle
	c	Duty of Care
	d	Reasonably Practicable
74		What is integrated management systems
	a	When for example environmental certification is done together with quality certification.
	b	Environmental management systems that include both Life-cycle analysis and MIPS for a special product.
	c	Management systems that are applicable for all functions and services regardless of the size of production units.
	d	Ems for every project
75		ISO 9001 changed from 2008 to 2015. the 2015 update does not have:
	a	More clauses
	b	A different structure (High Level Structure)
	c	Different terminology

	d	Reduce involvement of corporates
76		Quality management standards
	a	Reduce product failures.
	b	Reduce pollution
	c	Reduce Innovation
	d	Reduce water pollution
77		Energy management standards
	a	Use more energy
	b	Cut energy consumption
	c	Generate energy
	d	Focus on renewable energy
78		EMAS
	a	Reduce environmental impact
	b	Strengthen legal compliance
	c	Employee involvement
	d	Reduce economy
79		Environment Impact assessment(EIA) is done
	a	Before the project
	b	After the project
	c	During the project
	d	Any time in life cycle of project
80		<p>To curb the destructive practices of unscrupulous people, forest mafia groups, poachers, polluters and over exploitation of environmental resource ..... is necessary.</p> <p>1. Treaties 2. Conventions 3 Effective Legislation 4 Acts</p>

	a	1,2
	b	3,4
	c	1,3 & 4
	d	1,2 ,3 & 4
81		Article 48-A which provides for protection and improvement of the environment and to safeguard the forests and wildlife of the country was added to Part IV of the Indian Constitution, by way of
	a	40th amendment to the Constitution
	b	42nd amendment to the Constitution
	c	44th amendment to the Constitution
	d	44th amendment to the Constitution
82		After which international conference, constitutional sanction was given to environmental concerns through the 42nd Amendment
	a	United Nations Conference on Human Environment, Stockholm 1972
	b	The Earth Summit-The Rio Declaration On Environment And Development, 1992
	c	Montreal Protocol on the Ozone Layer 1997
	d	IPCC 1990
83		The Water (Prevention and Control of Pollution) Cess Act was enacted in the year
	a	1948
	b	1972
	c	1974
	d	1977
84		When was Biodiversity Act passed?
	a	2010
	b	2002

	c	2004										
	d	2003										
85		<div>Match the following:</div> <table><thead><tr><th>Column "A"</th><th>Column "B"</th></tr></thead><tbody><tr><td>(i) wildlife Protection act</td><td>(a) 1974</td></tr><tr><td>(ii) Air (Prevention and Control of Pollution) Act</td><td>(b) 1986</td></tr><tr><td>(iii) The Environment Protection Act</td><td>(c)1972</td></tr><tr><td>(iv)The Water (Prevention and Control of Pollution) Act</td><td>(d) 1981</td></tr></tbody></table>	Column "A"	Column "B"	(i) wildlife Protection act	(a) 1974	(ii) Air (Prevention and Control of Pollution) Act	(b) 1986	(iii) The Environment Protection Act	(c)1972	(iv)The Water (Prevention and Control of Pollution) Act	(d) 1981
Column "A"	Column "B"											
(i) wildlife Protection act	(a) 1974											
(ii) Air (Prevention and Control of Pollution) Act	(b) 1986											
(iii) The Environment Protection Act	(c)1972											
(iv)The Water (Prevention and Control of Pollution) Act	(d) 1981											
	a	i-a, ii-d, iii-b, iv-c										
	b	i-c, ii-b, iii-d, iv-a										
	c	i-c, ii-d, iii-b, iv-a										
	d	i-c, ii-d, iii-a iv-b										
86		Factories Act, was enacted in the year										
	a	1948										
	b	1972										
	c	1974										
	d	1977										
87		Forest (Conservation) Act was enacted in the year										
	a	1948										
	b	1972										
	c	1974										
	d	1980										
88		How many chapter does the water actc has										
	a	8										
	b	10										

	c	4
	d	7
89		<p>Which of the following is true about the Water (Prevention and Control of Pollution) Act, 1974:</p> <p>1 .Water Act prohibits any person from knowingly causing or permitting the entry of any poisonous, noxious or polluting matter, directly or indirectly, into any stream or well or sewer or on land.</p> <p>2. The Water Act establishes the Central Pollution Control Board (CPCB) (at the national level) and the State Pollution Control Board (SPCB) or the Pollution Control Committee (at the State/Union Territory level) to carry out its objectives.</p> <p>3. The function of the CPCB is plan and cause to be executed a nation-wide programme for the prevention, control or abatement of water pollution</p>
	a	1 and 3
	b	1 and 2
	c	1, 2 and 3
	d	2 and 3
90		The Water Act is applicable to which of the following categories?
	a	only Industries
	b	Residential
	c	only Municipal authorities
	d	Industries and Muncipal Authorities
91		The functions of Central Board are given under which act
	a	Water Act (1974)
	b	Air Act (1981)
	c	Environment Protection Act (1986)
	d	Biodiversity Act (2002)
92		Many countries impose taxes on green house gas emission from fossil fuel which is known as :
	a	Industrial Tax
	b	Wealth Tax

	c	Carbon Tax
	d	Environmental Cess
93		The first of the major environmental protection act to be promulgated in India was
	a	Hazardous act
	b	Air Act
	c	Water Act
	d	Biodiversity Act
94		The Air (Prevention and Control of Pollution) Act was enacted in _____ and amended in _____
	a	1986 and 1991
	b	1976 and 1988
	c	1981 and 1987
	d	1972 and 1991
95		How many chapter does the Air (Prevention and Control of Pollution) Act has
	a	8
	b	10
	c	4
	d	7
96		The Environment Protection Act of 1986 (EPA) came into force soon after _____ Tragedy
	a	Odisha Super Cyclone
	b	Gujarat Earthquake
	c	Bhopal Gas
	d	Tsunami

97		How many chapter does The Environmental (Protection) act has
	a	8
	b	10
	c	4
	d	7
98		Objective of The Environment (Protection) Act is _____
	a	Providing protection and improvement of the environment
	b	Improvement of the environment.
	c	Providing protection to the environment
	d	Punish the guilty
99		Under which legislaion , EIA is made mandatory
	a	Water Act (1974)
	b	Air Act (1981)
	c	Environment Protection Act (1986)
	d	Biodiversity Act (2002)
100		Environment Protection Act, was enacted in the year:
	a	1974
	b	1981
	c	1986
	d	1987
101		According to the Biodiversity act which of the following institute are set up 1. National Biodiversity Authority (NBA), 2. State Biodiversity Boards (SBBs) 3. Biodiversity Management Committees (BMCs)

	a	1 only
	b	2 and 3 only
	c	1 and 3 only
	d	1, 2 and 3
102		When was Factories Act introduced and amended ?
	a	1986 and 1991
	b	1976 and 1988
	c	1948 and 1987
	d	1972 and 1991
103		<p>Arrange following rules in ascending order as per their first notification date</p> <ol style="list-style-type: none"> <li>1. The Biomedical waste (Management and Handling) Rules</li> <li>2. Municipal Solid Wastes (Management and Handling) Rules,</li> <li>3. Construction and Demolition Waste Management Rules,</li> <li>4. Hazardous waste (Management , Handling and Transboundary movement )rules</li> </ol>
	a	1, 4, 2, 3
	b	1, 2, 4, 3
	c	2, 1, 3, 4
	d	4, 3, 2, 1
104		Public liability insurance act -1991, provide for damages to victims of an accident which occurs as a result of
	a	handling hazardous substances
	b	Natural disaster
	c	Road accidents
	d	Loss to the properties due to communal rides
105		This is not the key environmental regulatory authority in India
	a	Ministry of Environment , Forests and Climate change (MoEFCC)



	b	Central Pollution Control Board (CPCB)
	c	State Pollution Control Board (SPCB)
	d	Department of Environment (DOE),
106		This not the key international conferences on environment to the development of international environmental law.
	a	Stockholm Conference, 1972
	b	Rio Conference 1992
	c	World Summit on Sustainable Development (WSSD) 2002
	d	World Environment Conference (WEC) (1988)
107		The 2030 Agenda for Sustainable Development" was adopted at-
	a	Rio Conference
	b	Stockholm Conference
	c	Johannesburg declaration
	d	United Nations Sustainable Development Summit
108		Which of the following was not adopted at the Rio Conference, 1992
	a	United Nations Framework Convention on Climate Change
	b	Convention on Biological Diversity
	c	Agenda 21
	d	United Nations Convention to Combat Desertification
109		In which of the following conference following principle highlighted "polluter pays principle"
	a	Stockholm Conference, 1972
	b	Rio Conference 1992
	c	World Summit on Sustainable Development (WSSD) 2002

	d	World Environment Conference (WEC)(1988)
110		This is oldest key conference on environment
	a	United Nations Conference on the Human Environment, ' Stockholm
	b	United Nations conference on Environment and Developmentm,Rio de Janerio
	c	United Nations Sustainable Development Summit
	d	United Nations conference on sustainble development, Newyork
111		<p>According to the Wildlife (Protection) Act, 1972, which of the following animals cannot be hunted by any person except under some provisions provided by law?</p> <p>1. Gharial                      2. Indian wild ass                      3. Wild buffalo</p> <p>Select the correct answer using the code given below:</p>
	a	1 only
	b	2 and 3 only
	c	1 and 3 only
	d	1, 2 and 3