

ST. XAVIER'S COLLEGE, RANCHI

(An Autonomous College of Ranchi University)

Full Marks : 100

2014-15

SET - D

Time : 2 Hours

EXAM ROLL NO : 19888 12SZ0009868
(Fill last five digit of your Exam Roll No. on the OMR Sheet)

STUDENT NAME : SHAFUVE ZAHRA

INSTRUCTIONS TO STUDENTS

1. This Booklet contains 100 questions. All questions are compulsory and carry equal marks.
2. **Before you start answering the questions you must check this Booklet and ensure that it contains all the pages (1-11) and see that no page is missing or repeated. If you find any defect in this Booklet, you must get it replaced immediately.**
3. You will be supplied the OMR Answer Sheet separately by the Invigilator. You must complete and code the details of Name, Exam Roll No. (last five digit) and Set Number on the Answer Sheet carefully. You must also put your signature at the prescribed place before you actually start answering the questions. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark.
4. Answers must be shown by completely blackening the corresponding circles on the Answer-Sheet against the relevant question number by **Black/Blue Ball Point Pen/ Dark HB Pencil** only. More than one darkened circles will be awarded as Zero Mark.
5. The Question Booklet and OMR Answer-Sheet must be handed over to the Invigilator before you leave the Examination-Hall.
6. Answer the questions as quickly and as carefully as you can. Do not spend too much time on any question.
7. **No rough work is to be done on the OMR Answer-Sheet.** Rough work can be done on this Booklet.
8. **"Mobile phones and wireless communication devices are completely banned in the examination halls/rooms. Students are advised not to keep mobile phones/any other communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them."**
9. **There is negative marking. 0.25 marks will be deducted for each wrong answer.**

1. Intermediate zone in aquatic ecosystem where production almost balances consumption is
 - a) Epilimnion
 - b) Thermocline
 - c) Hypolimnion
 - d) Hyperlimnion
2. The objective and guiding principle for developing environmental education at all levels were formulated at
 - a) UNESCO conference 1975
 - b) Tbilisi conference 1977
 - c) UNESCO conference 1977
 - d) All the above
3. World water day is observed on
 - a) April 22
 - b) March 22
 - c) November 12
 - d) October 20
4. Chalcolithic age refers to
 - a) Bronze age
 - b) Iron age
 - c) Copper age
 - d) Stone age
5. Which of the following was short and poorly defined
 - a) Neolithic
 - b) Mesolithic
 - c) Palaeolithic
 - d) Neolithic
6. Ecosystem services include
 - a) purification of air and water
 - b) mitigate draughts and floods
 - c) nutrient cycling and generating fertile soil
 - d) all of the above
7. Purest form of water is
 - a) Tank water
 - b) Fountain Water
 - c) Rain water
 - d) Sea water
8. Major autotrophic component of an ecosystem are
 - a) Green plants
 - b) chemosynthetic bacteria
 - c) Green plant + chemosynthetic bacteria
 - d) green plants and saprotrophs
9. What does EIA abbreviation stands for
 - a) Environment Indian Association
 - b) Eco India Alignment
 - c) Environment Impact Awareness
 - d) Environment Impact Assessment
10. Which act was constituted in year 1972 ?
 - a) Wildlife Act
 - b) forest conservation Act
 - c) Air (Prevention & control of pollution) Act
 - d) Water (Prevention & control of pollution) Act

11. Who coined the term ecology?
 - a) Reiter
 - b) Hackel
 - c) Odum
 - d) Tansley
12. Energy flow in an ecosystem supports
 - a) 1st law
 - b) 2nd law
 - c) 1st & 2nd law
 - d) none
13. Limnology is the study of
 - a) Lakes
 - b) fresh water ecosystem
 - c) Marine ecosystem
 - d) both marine and fresh water ecosystems
14. Most food chains consist of how many trophic levels?
 - a) 2 - 4
 - b) 3 - 5
 - c) 4 - 6
 - d) 5 - 7
15. The World Summit on sustainable development took place in September 2002 at
 - a) Brazil
 - b) Johannesburg
 - c) Leeds
 - d) US
16. Principal sources of nitrous oxide is
 - a) Aerosols
 - b) Fertilizers
 - c) Deforestation
 - d) Livestock
17. United Nation Conference on Human environment was held in June 1972 Act
 - a) Berlin
 - b) Prague
 - c) Vienna
 - d) Stockholm
18. Which are the most important decomposers in an ecosystem
 - a) Algae & fungi
 - b) bacteria & fungi
 - c) Algae & earthworms
 - d) fungi & earthworms
19. World Ozone day is observed on
 - a) September 28
 - b) September 16
 - c) September 13
 - d) September 14
20. Dead organic matter is fragmented by
 - a) decomposers
 - b) saprotrophs
 - c) osmotrophs
 - d) detritivores

61. The most productive ecosystems are
 a) Desert ecosystem b) grass land
 c) Temperate forest d) tropical rain forest
62. Rain water is naturally acidic so for acid rain the PH should be
 a) 6.00 b) 5.00 or <5.00
 c) Less than 5 d) 3.00
63. Which has highest contribution in Global warming
 a) Energy use & production b) CFC
 c) Agricultural activity d) Land use modification
64. World Wildlife Week is observed every year on
 a) First week of January b) last week of June
 c) Last week of December d) First week of October
65. The longest consistent civilization in human history so far is that of
 a) Aegian b) China
 c) Indus d) Mesopotamia
66. Tree which absorbs most water is
 a) Tamarind b) Mango
 c) Eucalyptus d) Peepal
67. Which is the best option to combat pollution?
 a) Reduce b) Reuse
 c) Recycle d) Redesign
68. The emission of per fluoro carbons is being reduced with implementation of
 a) Montreal protocol b) Kyoto Protocol
 c) Earth summit d) MAB Programs
69. Which are the major sinks for atmospheric CO₂
 a) Mountainous Region b) Desert & Grass Land
 c) Ocean & Biomass d) Water
70. Global mean sea level has risen by
 a) 1-2 inches b) 4-8 inches
 c) 10-12 inches d) 13-15 inches

71. The Environment (protection) Act 1986 defines hazardous substance as a substance that
 a) exhibits corrosivity b) is liable to cause harm to living beings
 c) exhibits phytotoxicity d) exhibits faunal toxicity
72. What % age of water on earth is fresh water
 a) 3 b) 9
 c) 7 d) 10
73. The global 500 award is given in which of the following field
 a) Pollution Control b) Population control
 c) Gene preservation d) Environment preservation
74. Which are likely to be present in largest number in a food web?
 a) Aphids b) Caterpillar
 c) Gold finches d) Hawks
75. At each trophic level energy not used is lost in form of
 a) matter b) free energy
 c) heat d) water
76. Nile valley settlement dates back to
 a) 4500 BC b) 6000 BC
 c) 3000 BC d) 1000 BC
77. Edaphic factor refers to
 a) water b) soil
 c) relative humidity d) altitude
78. What does IPCC stand for
 a) Inter-Governmental panel on climate change b) Inter-Governmental protection of Climate change
 c) International protection of climate change d) International panel on climate change
79. In forest ecosystem number of trophic levels in a food chain is usually
 a) 3 b) 4
 c) 5 d) 7
80. Which monument in Greece has been corroded by acid rain?
 a) Parthenon b) Byzantine
 c) Pantheon d) St Peter's Basilica

81. A group of interconnected food chains is called
 a) Complex food chain b) Wonder food net
 c) Food web d) Food cycle
82. The process involved in creation of earth's inorganic materials is
 a) Geographic cycle b) Geological cycle
 c) Bio geological cycle d) Biochemical cycle
83. What change will occur if replantation is done on a plain land
 a) decrease in rainfall b) decrease in moisture in air
 c) lowering of water level d) increase in water holding capacity of soil
84. GHGs bring about following change in the atmosphere
 a) Increase the temperature b) May decrease the temperature
 c) Increase the rains d) All the above
85. Environment (protection) Act was established in
 a) 1978 b) 1986
 c) 1965 d) 1980
86. About how much of solar energy that falls on leaves is converted to chemical energy?
 a) 1% b) 10%
 c) 30% d) 50%
87. Which bacteria converts Urea to Ammonia?
 a) Decomposing bacteria b) denitrifying bacteria
 c) Nitrifying bacteria d) Nitrogen fixing bacteria
88. Energy and nutrients enter a community by way of
 a) Producers b) consumers
 c) Scavanger d) Detritivores
89. A green building is one which
 a) Optimizes energy efficiency b) Provides sufficient spaces for occupants
 c) Green in colour to camouflage with nature d) Has been designed in Greenland
90. A sequence of species through which organic molecules in a community pass through is called
 a) Pyramid of energy b) Food chain
 c) Food web d) Nutrient cycle

91. A system that consists of both biotic and abiotic components
 a) Ecology b) ecosystem
 c) Habitat d) community
92. Sumerians belonged to which place?
 a) Babylon b) Egypt
 c) Mesopotamia d) Crete
93. Where was the Earth Day first celebrated in 1970
 a) USA b) Brazil
 c) Greenland d) Detroit
94. Balance in nature is called
 a) Homeostatics b) Homeorhesis
 c) Cybernetics d) servomechanisms
95. Who amongst the following proposed the three fold classification of environmental education?
 a) Newman b) Salim Ali
 c) Pitter d) None of above
96. Due to burning of crops the fertile soil shows a reduction in
 a) calcium b) silt
 c) clay d) humus
97. Running water ecosystems are called
 a) Lotic b) Lentic
 c) Limnetic d) Littoral
98. What is the extent of stratosphere above earth's surface?
 a) From 10 km to 50 km b) From 20 km to 60 km
 c) From 30 km to 80 km d) From 50 km to 90 km
99. Correct form of food chain is
 a) Insect - Weed - Bird - Frog b) Frog - Bird - Weed - Insect
 c) Weed - Insect - Frog - Bird d) Bird - Frog - Insect - Weed
100. Which state in India was the first to regulate the manufacture and use of plastics?
 a) Manipur b) Kerala
 c) Gujarat d) Himachal Pradesh

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B.Sc./S-V/EVS

ANSWER KEY

EVS Science SET-D

QNo	Answer	QNo	Answer	QNo	Answer	QNo	Answer	QNo	Answer
1	B	11	B	21	C	31	B	41	D
2	B	12	C	22	D	32	A	42	B
3	B	13	B	23	A	33	B	43	A
4	C	14	B	24	B	34	A	44	C
5	B	15	B	25	C	35	B	45	C
6	D	16	B	26	D	36	A	46	C
7	C	17	D	27	A	37	B	47	C
8	A	18	B	28	C	38	D	48	D
9	D	19	B	29	C	39	A	49	C
10	A	20	D	30	B	40	B	50	D
QNo	Answer	QNo	Answer	QNo	Answer	QNo	Answer	QNo	Answer
51	C	61	D	71	B	81	C	91	B
52	A	62	B	72	A	82	B	92	C
53	B	63	A	73	D	83	D	93	A
54	A	64	D	74	A	84	A	94	B
55	C	65	B	75	C	85	B	95	A
56	C	66	C	76	B	86	A	96	D
57	D	67	A	77	B	87	C	97	A
58	B	68	B	78	A	88	A	98	A
59	C	69	C	79	A	89	A	99	C
60	A	70	B	80	A	90	B	100	D