

# FINAL ANSWER KEY

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Question1:-The founder of Sidhasramam at Alathur was

- A:-Vaikunda Swami
  - B:-Brahmananda Sivayogi
  - C:-Chattampi Swamikal
  - D:-Vagbhatananda
- Correct Answer:- Option-B

Question2:-The venue of 2020 Olympics

- A:-Rio de Janeiro
  - B:-Pyongyang
  - C:-Beijing
  - D:-Tokyo
- Correct Answer:- Option-D

Question3:-The play Nil Darpan was written by

- A:-Bankim Chandra Chatterjee
  - B:-S. C. Bose
  - C:-Dinabandhu Mithra
  - D:-Vimal Mithra
- Correct Answer:- Option-C

Question4:-The President of the Lahore Congress of 1929

- A:-M. K. Gandhi
  - B:-Jawaharlal Nehru
  - C:-C. R. Das
  - D:-S. C. Bose
- Correct Answer:- Option-B

Question5:-Who gave the epithet 'Pulayaraja' to Ayyankali ?

- A:-M. K. Gandhi
  - B:-Sree Narayana Guru
  - C:-Swami Vivekananda
  - D:-Chattampi Swamikal
- Correct Answer:- Option-A

Question6:-Who won the Nobel Prize in literature 2016 ?

- A:-Yoshinori
  - B:-Juan Manuel Santos
  - C:-Svetlana Alexievich
  - D:-Bob Dylan
- Correct Answer:- Option-D

Question7:-Which river in Kerala was referred as river Churni in Kautilya's Arthashastra ?

- A:-Bharathapuzha
  - B:-Pamba
  - C:-Periyar
  - D:-Chaliyar
- Correct Answer:- Option-C

Question8:-Temple Entry Proclamation was made in the year

- A:-1924
  - B:-1928
  - C:-1931
  - D:-1936
- Correct Answer:- Option-D

Question9:-Mahatma Gandhi presided over the annual session of the Indian National Congress only once at

A:-Belgaum

B:-Lucknow

C:-Lahore

D:-Kanpur

Correct Answer:- Option-A

Question10:-Nadhula Pass is situated in

A:-Maharashtra

B:-Sikkim

C:-Arunachal Pradesh

D:-Madhya Pradesh

Correct Answer:- Option-B

Question11:-The winner of the World Chess Championship 2016

A:-Sergey Karjakin

B:-Fabiano Caruana

C:-Magnus Carlsen

D:-Viswanathan Anand

Correct Answer:- Option-C

Question12:-The founder and publisher of the news paper Swadeshabhimani was

A:-Vakkam Abdul Khader Maulavi

B:-C. Kesavan

C:-Ramakrishna Pillai

D:-T. K. Madhavan

Correct Answer:- Option-A

Question13:-According to 2011 census which is the most populous State

A:-Uttar Pradesh

B:-Madhya Pradesh

C:-Rajasthan

D:-Maharashtra

Correct Answer:- Option-A

Question14:-Whom did B. G. Tilak call 'The Diamond of India' ?

A:-Lalajpat Rai

B:-Gopala Krishna Gokhale

C:-Rabindranath Tagore

D:-Dadabhai Naoroji

Correct Answer:- Option-B

Question15:-The largest fresh water lake in Kerala

A:-Kayamkulam Lake

B:-Vembanad Lake

C:-Ashtamudi Lake

D:-Sasthamkotta Lake

Correct Answer:- Option-D

Question16:-Who among the following is the Chief Justice of India ?

A:-H. L. Dattu

B:-T. S. Thakur

C:-J. S. Khehar

D:-R. M. Lodha

Correct Answer:- Option-C

Question17:-'Sadhu Jana Paripalana Yogam' was founded by

A:-Ayyankali

B:-Vagbhatananda

C:-K. Ayyappan

D:-V. T. Bhattathiripad

Correct Answer:- Option-A

Question18:-Who is known as 'Father of Indian Unrest' ?

A:-M. K. Gandhi

B:-B. G. Tilak

C:-M. G. Ranade

D:-Dadabhai Naoroji

Correct Answer:- Option-B

Question19:-Who is the present Secretary General of UNO ?

- A:-Ban Ki-Moon
- B:-Kofi Annan
- C:-Kurt Waldheim
- D:-Antonio Guterres

Correct Answer:- Option-D

Question20:-Who said "Hinduism dies, if untouchability lives, and untouchability has to die if Hinduism is to live" ?

- A:-Swami Vivekananda
- B:-B. R. Ambedkar
- C:-M. K. Gandhi
- D:-Sree Narayana Guru

Correct Answer:- Option-C

Question21:-In aerobic metabolism oxygen is the terminal electron acceptor, in \_\_\_\_\_ metabolism Nitrate is the terminal electron acceptor

- A:-Anaerobic
- B:-Anoxic
- C:-Obligate aerobic
- D:-Fermentation

Correct Answer:- Option-B

Question22:-The amount of  $O_3$  present in atmosphere above a particular location is measured in

- A:-ppm
- B:-ppb
- C:-Dobson Unit
- D:-mg

Correct Answer:- Option-C

Question23:-Meteorology is the study of

- A:-Atmospheric phenomena
- B:-Meteors
- C:-Climate
- D:-All of them

Correct Answer:- Option-A

Question24:-Montreal protocol is related to

- A:-Reducing  $CO_2$  emission
- B:-Reducing emission of CFCs
- C:-Reducing the use of pesticides
- D:-All of the above

Correct Answer:- Option-B

Question25:-Love canal is linked with

- A:-Nuclear power plant
- B:-Hazardous waste
- C:-Algal bloom
- D:-Aral sea

Correct Answer:- Option-B

Question26:-Piping is a phenomenon observed

- A:-In the atmosphere
- B:-Above earth surface
- C:-In the water column
- D:-Below earth surface

Correct Answer:- Option-D

Question27:-Mad hatter disease is linked with

- A:-Cadmium
- B:-Mercury
- C:-Arsenic
- D:-Chromium

Correct Answer:- Option-B

Question28:-London smog is due to high concentration of

- A:-Oxides of nitrogen
- B:-Oxides of sulphur
- C:-Oxides of carbon

D:-Volatile organic compounds

Correct Answer:- Option-B

Question29:-The saturation concentration of  $O_2$  at sea level is 8.3 mg/L at \_\_\_\_\_ °C.

A:-0

B:-20

C:-25

D:-30

Correct Answer:- Option-C

Question30:-Which pesticide is linked with Bhopal gas tragedy ?

A:-DDT

B:-Sevin

C:-Aldrin

D:-Deldrin

Correct Answer:- Option-B

Question31:-The most abundant fossil fuel in planet earth is

A:-Peat

B:-Bitumen

C:-Coal

D:-Crude Oil

Correct Answer:- Option-C

Question32:-Which is causing both global warming and ozone depletion ?

A:-Methane

B:-Nitrous oxide

C:-Water vapour

D:-Carbon dioxide

Correct Answer:- Option-B

Question33:-Global warming will not result in

A:-Melting of the ice caps

B:-Increasing sea levels

C:-Increasing the size of the hole in the ozone layer

D:-Unpredictable climate patterns

Correct Answer:- Option-C

Question34:-CDM technologies are linked to

A:-Climate change

B:- $CO_2$  release by plants

C:-Ozone depletion

D:-Red rains

Correct Answer:- Option-A

Question35:- \_\_\_\_\_ poisoning is known as plumbism.

A:-Copper

B:-Mercury

C:-Lead

D:-Chromium

Correct Answer:- Option-C

Question36:-Which of the following is not a transboundary pollutant ?

A:-PCB

B:-CFC

C:-Hg

D:- $N_2O$

Correct Answer:- Question Cancelled

Question37:-Thermocline in a lake is the zone of

A:-Constant temperature

B:-Rapid temperature change

C:-High temperature

D:-High temperature with neutral pH

Correct Answer:- Option-B

Question38:-Critical species whose extinction cause major changes, may also threaten existence of other species constitute a

A:-Source population

- B:-Sink population
- C:-Metapopulation
- D:-Keystone species

Correct Answer:- Option-D

Question39:-According to WHO, maximum permissible level of fluoride in drinking water is \_\_\_\_\_ ppm.

- A:-0.3
- B:-0.5
- C:-1.5
- D:-1.0

Correct Answer:- Option-C

Question40:-The earthquake rated as major is with \_\_\_\_\_ magnitude on Richter scale.

- A:->8
- B:-7-7.9
- C:-6-6.9
- D:-5-5.9

Correct Answer:- Option-B

Question41:-Tsunami - literally means

- A:-Giant waves
- B:-Water wall
- C:-Harbor waves
- D:-Destructive waves

Correct Answer:- Option-C

Question42:-The energy transfer in the food chain is an example of \_\_\_\_\_ law of thermodynamics.

- A:-First
- B:-Second
- C:-Third
- D:-Zeroth

Correct Answer:- Option-B

Question43:-The lakes which are poor in nutrients and productivity are \_\_\_\_\_ lakes.

- A:-Mesotrophic
- B:-Very small
- C:-Eutrophic
- D:-Oligotrophic

Correct Answer:- Option-D

Question44:-Black colour of the black soils is due to the high content of

- A:-Sodium
- B:-Potassium
- C:-Copper
- D:-Humus

Correct Answer:- Option-D

Question45:-Which one is an example for a secondary air pollutant ?

- A:-`SO\_(x)`
- B:-`NO\_(x)`
- C:-PAN
- D:-CFC

Correct Answer:- Option-C

Question46:-Silent spring is a \_\_\_\_\_ on \_\_\_\_\_.

- A:-Documentary, climate change
- B:-Movie, Antarctica
- C:-Book, melting of polar ice
- D:-Book, pesticide toxicity

Correct Answer:- Option-D

Question47:-Abyssal zones are located in

- A:-Ponds
- B:-Rivers
- C:-Lakes
- D:-Oceans

Correct Answer:- Option-D

Question48:-The chemical reaction  $\text{Cl} + \text{O}_3 \rightarrow \text{ClO} + \text{O}_2$  results in

- A:-Ozone depletion
- B:-Melting of permafrost
- C:-Glaciations
- D:-Greenhouse effect

Correct Answer:- Option-A

Question49:-The maximum amount of water that the soil can hold after the loss of gravitational water is known as

- A:-Hygroscopic water
- B:-Field capacity
- C:-Capillary water
- D:-Stored water

Correct Answer:- Option-B

Question50:-Limnology is a study of

- A:-Aging
- B:-Ticks and mites
- C:-Fresh water bodies
- D:-Termites

Correct Answer:- Option-C

Question51:-'Silviculture' refers to the practice of

- A:-Honey bee keeping
- B:-Growing Silk-worms
- C:-Forest management with objective of producing specific plants
- D:-Silver fish culturing

Correct Answer:- Option-C

Question52:-An example of fossil fuel is

- A:-Wood
- B:-Gobar gas
- C:-Charcoal
- D:-Gasoline

Correct Answer:- Option-D

Question53:-The ecosystem of stagnant fresh water habitat is known as \_\_\_\_\_ ecosystem.

- A:-Standing crop
- B:-Lentic
- C:-Lotic
- D:-Abyssal

Correct Answer:- Option-B

Question54:-'Photochemical smog' is caused by the interaction of

- A:-Hydrocarbons and Ozone
- B:-Hydrocarbons and `NO\_(x)`
- C:-`NO\_(x)` and Ozone
- D:-Hydrocarbons, `NO\_(x)` and Ozone

Correct Answer:- Option-D

Question55:-'Ramsar Convention' is for

- A:-Wetlands
- B:-Tropical Forests
- C:-Oceans
- D:-Mountains

Correct Answer:- Option-A

Question56:-Graphite is used as \_\_\_\_\_ in \_\_\_\_\_.

- A:-Surface coat, electronic chip
- B:-Brush, electronic devices
- C:-Moderator, nuclear reactors
- D:-Packing material, GC columns

Correct Answer:- Option-C

Question57:-Heliophytes are plants which grow in

- A:-Full sunlight
- B:-Low intensity of light
- C:-Complete darkness
- D:-Salt water

Correct Answer:- Option-A

Question58:-Sea water will boil at a temperature

- A:-Higher than pure water
  - B:-Lower than pure water
  - C:-Same as that of pure water
  - D:-Cannot be predicted, it can be higher, same or lower
- Correct Answer:- Option-A

Question59:-\_\_\_\_\_ was absent on earth's atmosphere during the early days of origin of life.

- A:-`CO\_(2)`
- B:-`CH\_(4)`
- C:-`H\_(2)`
- D:-`O\_(2)`

Correct Answer:- Option-D

Question60:-Which one of the following is linked with Methaemoglobinaemia ?

- A:-Methyl mercury
- B:-Nitrate
- C:-Cadmium
- D:-Arsenic

Correct Answer:- Option-B

Question61:-Three Gorges is a

- A:-Nuclear reactor
- B:-Dam
- C:-Biosphere reserve
- D:-A lake in USA

Correct Answer:- Option-B

Question62:-The science of cryogenic deals with

- A:-Crystallography
- B:-Low temperature
- C:-Low pressure
- D:-Missile technology

Correct Answer:- Option-B

Question63:-The salt concentration in the open sea is

- A:-1.5%
- B:-2.5%
- C:-3.0%
- D:-3.5%

Correct Answer:- Option-D

Question64:-Monsanto is the firm behind introduction of \_\_\_\_\_ in India.

- A:-Mobile phones
- B:-BT-cotton
- C:-LCD Television
- D:-Plasma TV

Correct Answer:- Option-B

Question65:-El-Nino is

- A:-A freshwater lake
- B:-An Ocean current
- C:-An air current
- D:-A Glacier

Correct Answer:- Option-B

Question66:-'Kerogen' is

- A:-Protein found in Human hair
- B:-Protein found in cow's milk
- C:-Substance found in Fungal cell wall
- D:-Solid waxy mixture of hydrocarbons

Correct Answer:- Option-D

Question67:-Very low BOD level of a water body indicates that the water is

- A:-Less polluted
- B:-Highly polluted
- C:-Rich in heavy metals
- D:-Contain more organic matter

Correct Answer:- Option-A

Question68:-A vibrational spectroscopy is otherwise known as

- A:-IR spectroscopy
- B:-Microwave spectroscopy
- C:-Electronic spectroscopy
- D:-Raman spectroscopy

Correct Answer:- Option-A

Question69:-'Denitrifiers' do the job of converting

- A:-`NH<sub>4</sub>` into `NO<sub>2</sub>`
- B:-`NH<sub>4</sub>` into `NO<sub>3</sub>`
- C:-`NO<sub>3</sub>` into Nitrogen
- D:-Nitrogen into `NO<sub>3</sub>`

Correct Answer:- Option-C

Question70:-\_\_\_\_\_ is the zone of ocean where producers of food chain are rarely found.

- A:-Littoral
- B:-Limnetic
- C:-Aphotic of deep sea
- D:-Inter tidal

Correct Answer:- Option-C

Question71:-'Tektites' are

- A:-Solidified droplets of molten rock
- B:-Sediments
- C:-Meteorites
- D:-Satellites

Correct Answer:- Option-A

Question72:-Anemometer is used to measure

- A:-Rain fall
- B:-Humidity
- C:-Air temperature
- D:-Wind velocity

Correct Answer:- Option-D

Question73:-The spectroscopy based on scattering principle is

- A:-Raman
- B:-NMR
- C:-Electronic
- D:-Microwave

Correct Answer:- Option-A

Question74:-Mycorrhizal association occurs between : Fungi and

- A:-Angiosperms
- B:-Moss
- C:-Pteridophytes
- D:-Algae

Correct Answer:- Option-A

Question75:-How many Mega diversity hot spots are present in India ?

- A:-3
- B:-5
- C:-2
- D:-1

Correct Answer:- Option-C

Question76:-Erawady dolphins are found in

- A:-Vembanadu lake
- B:-Chilka lake
- C:-Keibul lamjao
- D:-Lake Superior

Correct Answer:- Option-B

Question77:-Identify 'Quick lime' from the following

- A:-`Ca(OH)<sub>2</sub>`
- B:-CaO
- C:-`CaCO<sub>3</sub>`



D:-`CaHCO\_(3)`

Correct Answer:- Option-B

Question78:-Biodegradable plastics contains

A:-PAH

B:-PCB

C:-PHA

D:-POP

Correct Answer:- Option-C

Question79:-Which one of the following is not found in acid rain ?

A:-`CH\_(3)`COOH

B:-`HNO\_(3)`

C:-`H\_(2)``SO\_(3)`

D:-`H\_(2)``SO\_(4)`

Correct Answer:- Option-A

Question80:-'Epigeics' is a term related to

A:-Birds

B:-Fishes

C:-Mammals

D:-Earthworms

Correct Answer:- Option-D

Question81:-Acute cadmium poisoning is known as

A:-Itai-Itai

B:-Plumbism

C:-Bysinnosis

D:-Neuralgia

Correct Answer:- Option-A

Question82:-The presence of which of the following contaminants would be the strongest reason for judging Municipal sewage sludge unfit for use as fertilizer ?

A:-Ammonia

B:-Phosphates

C:-Nitrates

D:-Heavy metals

Correct Answer:- Option-D

Question83:-'Our common future' is the report by \_\_\_\_\_ Commission.

A:-Brundland

B:-Swaminathan

C:-Gadgil

D:-Climate change

Correct Answer:- Option-A

Question84:-'Betz limit' is linked with \_\_\_\_\_ energy.

A:-Solar

B:-Biomass

C:-Geothermal

D:-Wind

Correct Answer:- Option-D

Question85:-'Pyrethrin', a biopesticide is derived from

A:-Neem

B:-Bacillus thuringiensis

C:-Chrysanthemum

D:-Tobacco

Correct Answer:- Option-C

Question86:-'Gasohol' is a mixture of \_\_\_\_\_ and \_\_\_\_\_.

A:-Air, Alcohol

B:-Gas, Alcohol

C:-Gasoline, Alcohol

D:-Methane, Alcohol

Correct Answer:- Option-C

Question87:-Sounds above what level are considered hazardous noise pollution ?

A:-Above 80 db

B:-Above 30 db

C:-Above 120 db

D:-Above 100 db

Correct Answer:- Option-A

Question88:-'Solar ponds' function on the basis of

A:-Photonics

B:-Non-convection

C:-Transpiration

D:-Convection

Correct Answer:- Option-B

Question89:-Tundra is

A:-Treeless biome

B:-Rich in Conifers

C:-Rich in Pine trees

D:-A desert

Correct Answer:- Option-A

Question90:-\_\_\_\_\_ convention banned the world wide use of endosulfan.

A:-Geneva

B:-Nairobi

C:-Basel

D:-Stockholm

Correct Answer:- Option-A

Question91:-'Knock-knee syndrome' is due to

A:-Arsenic toxicity

B:-Cadmium toxicity

C:-Fluoride toxicity

D:-Selenium toxicity

Correct Answer:- Option-C

Question92:-The common coagulant used in water treatment is

A:-  $(\text{CaSO}_4)_2 \cdot 2\text{H}_2\text{O}$

B:-  $\text{Al}_2(\text{SO}_4)_3 \cdot \text{H}_2\text{O}$

C:-  $\text{Al}_2(\text{SO}_4)_3 \cdot 14\text{H}_2\text{O}$

D:-  $\text{CH}_3\text{COOH}$

Correct Answer:- Option-C

Question93:-Secchi discs are used in \_\_\_\_\_ studies.

A:-Water quality

B:-Microbiological

C:-Air quality

D:-Quadrat

Correct Answer:- Option-A

Question94:-'Pyrology' is the study of

A:-Distribution of animals in relation to temperature

B:-Role of fire in ecology

C:-Distribution of plants in forests in relation to light

D:-Variation in species distribution in relation to ambient temperature

Correct Answer:- Option-B

Question95:-Through a chemical process coal is converted to a liquid/gas fuel known as

A:-Coal fuel

B:-Natural fuel

C:-Oil shale

D:-Synfuel

Correct Answer:- Option-D

Question96:-OTEC is a technology for

A:-Conservation of Ocean biodiversity

B:-Prevention of marine pollution

C:-Bioremediation of ocean oil spill

D:-Obtaining energy from ocean

Correct Answer:- Option-D

Question97:-'Albedo' is

- A:-Lack of pigmentation in the skin
  - B:-A small country in Africa
  - C:-A variety of rodent
  - D:-A fraction of incoming solar radiation that is reflected
- Correct Answer:- Option-D

Question98:-Which agency co-ordinates the EIA related activities in India ?

- A:-MoEF
- B:-DST
- C:-CPCB
- D:-MoES

Correct Answer:- Option-A

Question99:-In a completely mixed system of wastewater treatment, when the flowrate (Q) is given as 20,000 L per day, calculate the HRT with which the unit is operated while its volume (V) is one lakh litres ?

- A:-500 days
- B:-50 days
- C:-5 days
- D:-0.5 days

Correct Answer:- Option-C

Question100:-'Super fund' was created in \_\_\_\_\_ country for the purpose of \_\_\_\_\_.

- A:-UK, curbing terrorism
- B:-India, for constructing Landfills
- C:-Japan, for rehabilitating Tsunami victims
- D:-USA, for remediating areas dumped with toxic/hazardous wastes

Correct Answer:- Option-D