

1. Consider the following statements regarding the International Renewable Energy Agency (IRENA):
 1. A state should be a member of the United Nations to gain IRENA membership.
 2. The main institutional governing body of the IRENA is the supreme Council which includes delegates only from the P5 Countries.
 3. The Global Commission on the Geopolitics of Energy Transformation was launched by IRENA.

Which of the statements given above is/are correct?

- a) 2 only b) 1 and 2 only
c) **1 and 3 only** d) 1, 2 and 3
2. With reference to Aeroponics, Consider the following statements:
1. In Aeroponic system, the roots are held in a soilless growing medium, such as coco coir, over which nutrient-laden water is periodically pumped.
 2. Aeroponic system is a closed loop system, using 95% less water than field farming and 40% less than hydroponics.

Which of the statements given above is/are correct?

- a) 1 only **b) 2 only**
c) Both 1 and 2 d) Neither 1 nor 2
3. Which of the following Bioremediation Technologies is/are correctly matched?
1. Bioventing – Addition of Bacterial cultures to a contaminated medium.
 2. Bioaugmentation – Method of treating contaminated soils by drawing oxygen through the soil.
 3. Biosparging – The injection of air under pressure can enhance biological degradation.

Select the correct answer using the codes given below:

4. Which of the following statements is/are NOT CORRECT regarding Development of Solar Parks and Ultra Mega Solar Power Projects Scheme?
1. This scheme supports only those States/UTs which has power deficit in setting up solar parks.
 2. The implementing agency of this scheme is Solar Power Park Developer (SPPD).

Select the correct answer using the code given below:

- a) 1 only
b) 2 only
c) Both 1 and 2
d) Neither 1 nor 2
5. Consider the following statements with respect to United Nations Convention to Combat Desertification (UNCCD):
1. It is the only internationally legally binding framework set up to address the problem of desertification.
 2. The Convention addresses specifically the arid, semi-arid and dry sub-humid areas.
 3. UNCCD collaborates with the Convention on Biological Diversity (CBD) and the United Nations Framework Convention on Climate Change (UNFCCC).

Which of the statements given above is/are correct?

- a) 1 only
b) 1 and 2 only
c) 2 and 3 only
d) **1, 2 and 3**
6. Bhopal gas tragedy has been one of the most deadliest industrial hazards in the history of India. Which of the following gas was released causing the disaster?
a) Potassium cyanide
b) Potassium isocyanate
c) **Methyl isocyanate**
d) Phosgene
7. The release of ballast water at the port is considered to be a big ecological hazard because:
a) It increases the temperature of the coast by several degrees.
b) It causes heavy metal poisoning.
c) **It is responsible for transporting alien species to new ecosystems.**
d) It reduces the dissolved oxygen in the ocean water.

8. The government has constituted a committee to investigate into illegal cultivation of HT cotton in four states. The HT of HT cotton stands for
- Hybrid transform
 - Herbal treatment
 - Herbicide tolerant**
 - High Tech
9. Which of the following traits should a waste material show to be categorized under Hazardous waste?
- Ignitability
 - Reactivity
 - Corrosivity
 - Toxicity
- Select the correct answer using the code given below:
- 1 and 2 only
 - 3 and 4 only
 - 1, 3 and 4 only
 - 1, 2, 3 and 4.**
10. Consider the following statements.
- An aerosol is a suspension of fine solid particles or liquid droplets, in air or another gas.
 - Examples of anthropogenic aerosols are fog, dust, forest exudates and geyser steam.
 - Examples of natural aerosols are haze, particulate air pollutants and smoke.
 - Aerosol does not have any impact on cloud formations.
- Which of the above statements is/are correct?
- 1 only**
 - 2 and 3 only
 - 4 only
 - 1, 2, 3 and 4
11. Consider the following statements regarding Geostationary Orbit:
- Satellites in Geostationary Orbit circle Earth from East to West.
 - Telecommunication Satellites are generally placed in Geostationary Orbit.
- Which of the statements given above is/are NOT CORRECT?
- 1 only**
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
12. Consider the following statements Geosynchronous Orbit:
- A spacecraft in Geosynchronous Orbit appears to remain above Earth at a constant longitude.
 - Geosynchronous Orbit can be considered as a specific case of Geostationary Orbit.
- Which of the statements given above is/are correct?
- 1 only**
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2
13. Consider the following statements regarding:
- Low Earth Orbit is relatively close to Earth Surface at an altitude of 15km-60km (above Earth Surface).
 - International Space Station orbits around the Earth in the Low Earth Orbit.
- Which of the statements given above is/are correct?
- 1 only
 - 2 only**
 - Both 1 and 2
 - Neither 1 nor 2
14. Consider the following statements:
- Satellites in polar orbits usually travel past Earth from north to south rather than from west to east.
 - Satellites in Sun-synchronous orbit are synchronised to be in the same fixed position relative to the Sun.
- Which of the statements given above is/are NOT CORRECT?
- 1 only
 - 2 only
 - Both 1 and 2
 - Neither 1 nor 2**

15. Consider the following statements:

1. Eccentricity is a measure of how circular or elliptical an orbit is.
 2. Inclination is the angular distance of the orbital plane from the plane of the planet's equator.
- Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2**
- d) Neither 1 nor 2

16. Which of these discoveries is a landmark evidence of Big Bang theory?

- a) Quasars
- b) The first exoplanet 51 Pegasi b
- c) Cosmic Microwave Background Radiation**
- d) Supernova

17. With reference to neutrinos, Consider the following statements:

1. There are two types of neutrinos, electron neutron and proton neutrino.
2. Natural neutrinos are harmful as they generate radiation and can cause diseases.
3. Neutrinos come from the sun (solar neutrinos) and other stars, cosmic rays that come from beyond the solar system, and from the Big Bang.

Which of the statements given above is/are correct?

- a) 1 only
- b) 1 and 3 only
- c) 2 and 3 only
- d) 3 only**

18. Which of the following statements is/are correct with reference to the Black holes:

1. A black hole is a place in space where gravity pulls so much that even light cannot get out.
2. Density of black hole is neither very low nor very high.
3. Stellar black holes are made when the center of a very big star falls in upon itself, or collapses.

Select the correct answer using the code given below:

- a) 1 only
- b) 2 and 3 only
- c) 1 and 3 only**
- d) 1, 2 and 3

19. With reference to Gravitational Waves, Consider the following statements:

1. Gravitational waves can be produced by Humans, Cars and Aeroplanes.
2. The strongest gravitational waves are produced by catastrophic events such as colliding black holes, the collapse of supernovae and the remnants of gravitational radiation created by the birth of the Universe itself.

Which of the statements given above is/are NOT CORRECT?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2**

20. Consider the following statements with reference to India's solar mission Aditya-L1:

1. Aditya L1 is the first satellite to study the magnetic field of the sun's corona.
2. Aditya L1 will help to study that why the photosphere, the deeper layer of the sun is at much lower temperature than the corona.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2**
- d) Neither 1 nor 2

21. Which of the following forums involve India and Vietnam:

1. ASEAN Defence Ministers' Meeting- Plus (ADMM-Plus)

2. East Asia Summit
3. Asia Europe Meeting (ASEM)
4. Mekong Ganga Cooperation

Select the correct answer using the code given below:

- a) 1, 2 and 3 only
- b) 2, 3 and 4 only
- c) 1, 3 and 4 only
- d) 1, 2, 3 and 4**

22. With reference to Sweet revolution, consider the following statements:

1. It is launched to increase the production of sugarcane in India.
2. It aims to double farmers' income and ensure tribal upliftment.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only**
- c) Both 1 and 2
- d) Neither 1 nor 2

23. With reference to India Climate Change Knowledge Portal, consider the following statements:

1. It aims to disseminate knowledge among citizens about efforts of the Government to address climate change issues.
2. International Climate Negotiations shall not be a component of this knowledge portal.

Which of the statements given above is/are correct?

- a) 1 only**
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

24. Which of the following changes has not been made through the 42nd Constitutional Amendments Act?

1. The words 'Unity of the nation' have been changed to 'Unity and integrity of the nation'.
2. Right to property has been taken out from the list of Fundamental Rights and has been declared a legal right in 1976.
3. Emergency can be proclaimed only on the basis of written advice tendered to the President by the Cabinet.

Choose the correct answer using code given below:

- a) 1 and 2 only
- b) 2 and 3 only**
- c) 1 and 3 only
- d) 1, 2 and 3

25. With reference to RT-PCR Test, consider the following statements:

1. It was invented by Kary Mullis.
2. It uses copies of a segment of DNA to detect viruses.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2**
- d) Neither 1 nor 2



VANIK-IAS
Exclusive Coaching for UPSC/OPSC/WBCS

VANIK Scholarship Test VST

for IAS, OAS & WBCS-2021

AVAIL UPTO

100%

SCHOLARSHIP
in tuition fee

ON 13th December 2020



Vanik Scholarship Test (VST) is an initiative of VANIK to inspire and support the talented students; to chase their dream career, overcoming the financial hurdles. every year thousands of Graduates dream about prestigious Civil Services Exam, State Civil Services Exam etc., but due to unfavourable economic conditions, these students are unable to take coaching for these competitive examinations. the prime motto of VST is to help deserving students of economically weaker section in the form of scholarship, ranging from 10% to 100% in tuition fee based on their performance. Vanik Scholarship Test will be conducted in various cities and students will get an opportunity to avail upto 100% scholarship in tuition fee in classroom courses for IAS, OAS & WBCS-2021.

Category	Scholarship % in Tuition fee
A	100%
B	75%
C	50%
D	25%
E	10%

Scholarship will vary from 10% to 100% in tuition fee, based on merit list.

VST : TEST CENTRES

BHUBANESWAR, CUTTACK, BERHAMPUR, SAMBALPUR, KOLKATA

Syllabus	No. of Questions
History of Modern India	5
Geography of India	5
General Science	8
Environment & Ecology	7
Indian Constitution	8
Indian Economy	7
Current Affairs	10

TEST PATTERN: OBJECTIVE TYPE OFFLINE TEST

Total Marks	: 100
Total Questions	: 50 Q
Time Duration	: 1 Hour
Per Question	: 2 Marks
Negative Marking	: 0.66 Marks

- Ex. Vanik Students refers to those students who were previously enrolled in classroom courses like Banking, SSC, Banking + SSC + Railway, OSSC, ASO, CT/B.Ed batches.
- Scholarship is applicable for IAS, OAS, WBCS long term classroom courses.
- Both Ex. VANIK & Non-VANIK students can appear for VST.

Free Registration

**LAST DATE OF REGISTRATION :
06TH DECEMBER 2020**

New Batch for IAS/OAS/WBCS starts from 10th December 2020

CRP
Plot-1441, Opp. IOCL Petrol Pump,
CRP Square, Bhubaneswar
8093083555, 8984111101

Cuttack
Near Yamaha Showroom,
Link Road, Cuttack
8984556677, 9040656677

Berhampur
OSRTC Depo, Infront of SBR Women's
College, Near Khalikot College
7992556677, 8018036677

Sambalpur
Plot No-266, Unit-7
Modipada, Sambalpur
7377556677

Kolkata
Sealdah Big Bazar Complex, 6th Floor,
Belaghata Main Road, Kolkata
7449556677, 6293556677

✉ vanikias@gmail.com