

Q.1) Consider the following statements with respect to 'AMRUT' scheme

1. It ensure that every household has access to a tap with assured supply of water and a sewerage connection
2. Affordable housing will be provided to the urban poor with a target of building 20 million affordable houses by 31 March 2022

Select the correct code:

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

Q.1) Solution (b)

Atal Mission for Rejuvenation and Urban Transformation

It was launched with the focus to establish infrastructure that could ensure adequate robust sewage networks and water supply for urban transformation by implementing urban revival projects.

Rajasthan was the first state in the country to submit State Annual Action Plan under Atal Mission for Rejuvenation and Urban Transformation (AMRUT).

The scheme Housing for All by 2022 and Atal Mission for Rejuvenation and Urban Transformation (AMRUT) were launched on the same day.

The scheme is dependent with public private partnership (PPP) model. If required, various other schemes like Swachh Bharat Mission, Housing for All 2022, along with the local state schemes like that related to water supply and sewerage and other infrastructure related schemes can be linked to AMRUT.

SAAP(State Annual Action Plans) is a consolidated plan of all the city level SLIPs(Service Level Improvement Plan) of all proposed AMRUT cities in the respective states. A formulation on City level SLIP is done based on diligent estimation of ambiguities in the availability of infrastructure like water supply, sewerage network, draining system, transportation facilities, available digital and internet facilities, industrial facilities etc. 135litres per capita per day is another factor in the process including water supply and sewerage connections to all urban households.

Read More - <http://amrut.gov.in/writereaddata/The%20Mission.pdf>

Q.2) Consider the following statements with respect to 'Agni IV'

1. It is a two-stage solid propellant missile
2. It has a strike range of 4,000 km

Select the correct code:

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

Q.2) Solution (c)

Agni-IV is the fourth in the Agni series of missiles which was earlier known as Agni II prime. It has been developed by India's DRDO and displayed a number of new technologies and significant improvement in missile technology. The missile is light-weight and has two stages of solid propulsion and a payload with re-entry heat shield. Capable of striking targets in nearly all of China (including Beijing and Shanghai) if launched from northeastern India.

It is an Intermediate Range Ballistic Missile with a strike range of 4000 km.

Source: <https://timesofindia.indiatimes.com/india/n-capable-agni-iv-missile-test-fired-successfully/articleshow/67223242.cms>

Q.3) What is 'Vespucci' which was recently in news

- a) Italian Intercontinental Ballistic Missile
- b) European Navigation Satellite System
- c) Aircraft carrier developed by Brazil
- d) GPS Satellite for US Air Force

Q.3) Solution (d)

GPS III satellite was built by Lockheed Martin and launched by SapecX for US Military operations.

The solar-powered Vespucci will provide a number of advantages over the old-guard satellites.

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The SUV-size Vespucci, which weighed 9,700 lbs. (4,400 kilograms) at launch will replace a GPS craft known as SVN-43

GPS III signals will also be compatible with other satellite-navigation systems

Vespucci's nickname honors Italian cartographer and explorer Amerigo Vespucci, after whom North and South America were named.

Q.4) Consider the following statements with respect to 'National Supercomputing Mission (NSM)'

1. It is implemented and steered jointly by the Department of Science and Technology (DST) and Department of Electronics and Information Technology (DeitY)
2. French IT services firm Atos will build the first phase of supercomputers under National Supercomputing Mission (NSM)

Select the correct statements

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

Q.4) Solution (c)

India awarded French technology firm Atos a ₹4,500-crore contract to build 70 supercomputers under the National Supercomputing Mission.

The contract could see as many as 73 supercomputers manufactured and designed in India, and will boost India's supercomputing capabilities.

The mission is supposed to be implemented by the Department of Science and Technology and Department of Electronics and Information Technology (DeitY), through the Centre for Development of Advanced Computing (C-DAC) and Indian Institute of Science (IISc), Bengaluru.

While the first few supercomputers under the contract will have all imported parts, Atos has partnered with Indian contractors to build most of the parts in facilities in Chennai and Pune.

In the next phase, the supercomputers will not only be manufactured but also be designed by CDAC in India, allowing the country to be self-reliant in the technology that is essential

for India's new-age applications such as drug discovery, weather and natural disaster prediction, and even space ambitions.

Source: <https://www.thehindubusinessline.com/companies/national-supercomputing-mission-atos-gets-4500-cr-project/article25758236.ece>

Q.5) Gupta sculpture was influenced by:

- a) Mathura School
- b) Amravati School
- c) Gandhara School
- d) Both (a) and (b)

Q.5) Solution (d)

With the Gupta period India entered upon the classical phase of sculpture. By the efforts of the centuries, techniques of art were perfected, definite types were evolved, and ideals of beauty were formulated with precision.

In the Gupta period all the trends and tendencies of the artistic pursuits of the preceding phases reached their culmination in a unified plastic tradition of supreme importance in Indian History. Gupta sculpture thus is the logical outcome of the early classical sculpture of Amravati and Mathura. Its plasticity is derived from that of Mathura and its elegance from that of Amravati.

