

# OFFICERS IAS ACADEMY

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Daily MCQs: 20-04-2024

**1. With reference to the PM Vishwakarma scheme, consider the following statements.**

1. It is a Central Sector Scheme fully funded by the Central government.
2. It aims to provide end-to-end support to artisans and craftspeople.
3. Beneficiaries under the scheme are restricted to rural areas of the country.

**How many of the statements given above are correct?**

- A. Only one
- B. Only two
- C. All three
- D. None

**2. Consider the following countries.**

1. Egypt
2. Sudan
3. Oman
4. Jordan
5. Eritrea

**Which of the countries mentioned above share their border with the Red sea?**

- A. 1, 2 and 5 only
- B. 2, 3 and 5 only
- C. 1, 4 and 5 only
- D. 1, 2, 3, 5 only

**3. Energy Efficiency Services Limited (EESL) is a joint venture of Public Sector Undertakings under**

- A. Ministry of Power
- B. Ministry of New and Renewable Energy
- C. Ministry of Heavy Industry & Public Enterprises
- D. None of the above

**4. Consider the following statements about Gross Value Added (GVA).**

1. GVA is defined as the value of output less the value of intermediate consumption.
2. GVA is used to measure the output or contribution of a particular sector.
3. While GDP gives a picture of the state of economic activity from the producers' side or supply side, GVA gives the picture from the consumers' side or demand perspective.

**How many of the statements given above are correct?**

- A. Only one

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- B. Only two
- C. All three
- D. None

### 5. Consider the following statements.

1. Dark matter works like a repulsive force.
2. Dark matter accounts for roughly 68 percent of the universe's total mass and energy.

### 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

### Solutions:

1. Answer: B

### Explanation:

- **Statements 1 & 2 are correct:** PM Vishwakarma is a **Central Sector Scheme** launched recently to **provide end-to-end support to artisans and craftspeople who work with their hands and tools.**
- It is a new scheme with an outlay of **Rs 13,000 crore** and is **fully funded by the Central government.** The **Ministry of Micro, Small & Medium Enterprise** is the nodal ministry of PM Vishwakarma Yojana.
- The prime focus of PM Vishwakarma is at improving the **quality** as well as the **reach of products and services** of artisans and craftspeople and to ensure that they are **integrated with the domestic and global value chains.**
- **Statement 3 is incorrect:** The scheme will provide support to artisans and craftspeople of **rural and urban areas** across India.
- **Eighteen traditional crafts** will be covered under PM Vishwakarma. These include (i) Carpenter; (ii) Boat Maker; (iii) Armourer; (iv) Blacksmith ; (v) Hammer and Tool Kit Maker; (vi) Locksmith; (vii) Goldsmith; (viii) Potter; (ix) Sculptor, Stone breaker; (x) Cobbler (Shoemith/ Footwear artisan); (xi) Mason (Rajmistri); (xii) Basket/Mat/Broom Maker/Coir Weaver; (xiii) Doll & Toy Maker (Traditional); (xiv) Barber; (xv) Garland maker; (xvi) Washerman; (xvii) Tailor; and (xviii) Fishing Net Maker.

2. Answer: A

### Explanation:

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- The Red Sea is a semi-enclosed, inlet (or extension) of the Indian Ocean between the continents of Africa from Asia. It is connected to the Arabian Sea and the Indian Ocean to the south through the Gulf of Aden and the narrow strait of Bab el Mandeb. The northern portion of the Red Sea is bifurcated by the Sinai Peninsula into the Gulf of Aqaba and the Gulf of Suez, where it is connected to the Mediterranean Sea via the famous Suez Canal.
- A total of **6 countries** of Asia and Africa, border the Red Sea. The countries of **Yemen and Saudi Arabia** border the Red Sea to the east. The Red Sea is bordered by **Egypt** to the north and west, and by **Sudan, Eritrea, and Djibouti** to the west.

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3. Answer: A

### Explanation:

- Energy Efficiency Services Limited (EESL) is a **joint venture of Public Sector Undertakings under the Ministry of Power.**
- ESL was formed to create and sustain market access of energy efficient technologies, particularly in the public facilities like municipalities, buildings, agriculture, industry etc. and to implement several schemes of the Bureau of Energy Efficiency, Ministry of Power and Ministry of New & Renewable Energy, Government of India.
- EESL is also leading the market-related activities of **National Mission for Enhanced Energy Efficiency (NMEEE)**, one of the eight national missions under National Action Plan on Climate Change (NAPCC).
- EESL is the **world's largest energy service company (ESCO)** that is driving numerous initiatives that are potential game-changers in building a conducive ecosystem for energy efficient technologies, across geographies.

4. Answer: B

### Explanation:

- **Statement 1 is correct:** Gross value added (GVA) is defined as the **value of output less the value of intermediate consumption.**
- **Statement 2 is correct:** It is used to measure the output or contribution of a particular sector.
- At the macro level, from a national accounting perspective, it is the sum of a country's GDP and net of subsidies and taxes in the economy.
- A **sector-wise breakdown is provided by the GVA.** It helps policymakers to decide which sectors need incentives/ stimulus or vice versa.
- **Statement 3 is incorrect:** While GVA gives a picture of the state of economic activity from the producers' side or supply side, the GDP gives the picture from the consumers' side or demand perspective.

5. Answer: D

### Explanation

- Dark Matter refers to the hypothetical matter that scientists have not been able to locate in the universe - either through telescopes or using any other technological method.
- **Statement 1 is incorrect:** Dark matter works like an **attractive force** — a kind of cosmic cement that holds our universe together. This is because dark matter does interact with gravity, but it doesn't reflect, absorb or emit light.
- Unlike normal matter, **dark matter does not interact with the electromagnetic force.** As a result, it **does not absorb, reflect or emit light**, making it extremely hard to spot.
- In fact, researchers have been able to infer the existence of dark matter only from the gravitational effect it seems to have on visible matter.

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- In the 1930s, astronomer **Fritz Zwicky** speculated the presence of “dark matter” for the first time.

### Dark energy

- Dark energy is a **repulsive force** — a sort of anti-gravity — hypothesised to be responsible for the accelerated expansion of the Universe.
- Like Dark Matter, Dark Energy is **not directly observed**, but rather inferred from observations of gravitational interactions between astronomical objects.
- **Statement 2 is incorrect:** Dark energy is the far more dominant force of the two, accounting for roughly **68 percent** of the universe’s total mass and energy. **Dark matter makes up 27 percent.** And the rest — a measly 5 percent — is all the regular matter we see and interact with every day.
- Current hypotheses propose dark energy might emerge from the bubbling of empty space, a small effect that is also widespread, making it powerful enough to drag apart clusters of galaxies without ripping them apart from within.

