



# The Institute of Cost Accountants of India

(Statutory Body under an Act of Parliament)

## National Youth Commerce Olympiad (NYCO), 2024

### Category - A

#### Subject 1: Social Studies

- (i) When did we adopt the Constitution of India?
- 26-01-1950
  - 26-11-1949
  - 14-08-1947
  - none of the above
- (ii) What was the slogan of the French Revolution?
- Liberty, Equality and Fraternity
  - No taxation without representation
  - No laws, no Liberty, and More laws, No liberty
  - none of the above
- (iii) Bronze Dancing Girl was found in which of the following IVC sites?
- Rakhigari
  - Harrapa
  - Dholavira
  - Mohenjodaro
- (iv) Nuclear energy can be classified as:
- Renewable energy
  - Non-renewable energy
  - Can be either renewable or non-renewable energy based on its waste disposal
  - None of the above.
- (v) Which among the following is an example of Quaternary activity?
- Agriculture
  - Financial planning
  - Automobile manufacturing
  - Fishing



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**Subject 2: Mathematics**

- (i) In a bar diagram, the length of the bar is:
- Inversely proportional to the value it represents.
  - Inversely proportional to the width of it.
  - Proportional to the width of it.
  - Proportional to the value it represents.
- (ii) If 6 is the least prime factor of number X and 8 is the least prime factor of Y, then the least prime factor of X+Y is:
- 2
  - 3
  - 7
  - 8
- (iii) The volume of a sphere with radius r is:
- $\frac{4}{3} \pi r^3$
  - $\pi r^3$
  - $\frac{1}{3} \pi r^3$
  - $\frac{1}{2} \pi r^3$
- (iv) If the 1st term of an AP is 10 and  $d=8$ . Find  $T_4$ .
- 15
  - 20
  - 34
  - 10
- (v) In a right-angled triangle, if the lengths of the two legs are 3 cm and 4 cm, the length of the hypotenuse is:
- 25 cm
  - 7 cm
  - 5 cm
  - 49 cm



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### Subject 3: General Awareness

- (i) Ayodhya's Ram temple was built by adopting which style?
- Nagara style
  - Dravidian style
  - Vesara style
  - Kalinga style
- (ii) What is shiv shakti point?
- A place in kailash where it is believed that god shiv and shakti is residing.
  - Marriage place of shiv-shakti as per Hindu mythology.
  - Landing site of Chandrayaan-3 on moon.
  - None of the above
- (iii) How many times India has won Cricket World Cup since 1975?
- 4 times
  - 2 times
  - 5 times
  - None of the above
- (iv) Which city is declared as the city of literature by UNESCO?
- Chennai
  - Banglore
  - Delhi
  - Kozhikode
- (v) Which among the following is the national aquatic animal of India?
- Ganges river dolphin
  - Starfish
  - Sea turtle
  - jellyfish



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**Subject 4: Quantitative Aptitude**

- (i) A store sells a product at a 20% discount on the marked price. If the selling price is ₹80, what is the marked price?
- a) ₹120
  - b) ₹100
  - c) ₹80
  - d) ₹150
- (ii) A car travels 250 miles in 5 hours. What is its average speed in miles per hour?
- a) 45
  - b) 55
  - c) 50
  - d) 60
- (iii) If ₹2000 is invested at an annual compound interest rate of 10% for 2 years, what will be the amount at the end of the 2 years?
- a) 2420
  - b) 2000
  - c) 2850
  - d) 2540
- (iv) What is the average of the first 20 positive integers?
- a) 12
  - b) 10
  - c) 10.5
  - d) 15.5
- (v) If the ratio of the ages of A and B is 5:4 and the sum of their ages is 90 years, what is the age of A?
- a) 40
  - b) 45
  - c) 55
  - d) 50