

## NID MOCK 31.12.2021

Instructions: Questions 1 to 14 carry 1 mark each

1. This image is associated with which of the following?



- A. Limited Wi-Fi
- B. Wi-Fi Hotspot
- C. Smart TV
- D. Cast Screen**



2. The metallic object in the picture is called?

- A. Swaging
- B. Clamps
- C. Ferrule**
- D. Aglet

3. Airplanes are usually painted in white because?

- A. It costs less
- B. It weighs less
- C. It reflects light
- D. All of the above**

4. Identify the organization which uses the logo?

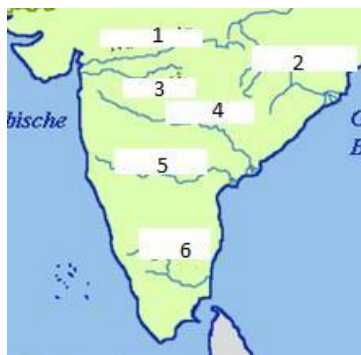
- A. HEPA
- B. PETA**
- C. RERA
- D. UN Animal Welfare



5. 'Emerald Blue and you' is the tagline of which state in India

- A. Dadra & Nagar Haveli
- B. Puducherry
- C. Goa
- D. Andaman & Nicobar**

6. The correct order of River basins shown in the map is :



- A. 1-Narmada, 2-Tapi, 3-Mahanadi, 4-Krishna, 5-Godavari, 6-Cauveri
- B. 1-Tapi, 2-Narmada, 3-Mahanadi, 4-Krishna, 5-Godavari, 6-Cauveri
- C. 1-Narmada, 2-Mahanadi, 3-Tapi, 4-Godavari, 5-Krishna, 6-Cauveri**
- D. 1-Narmada, 2-Tapi, 3-Mahanadi, 4-Krishna, 5-Cauveri, 6-Godavari

7. The first Indian to become the RBI Governor is?

- A. C D Deshmukh**
- B. Benegal Rama Rau
- C. K G Ambegaonkar
- D. HVR Iyengar

8. The Capital of Lakshadweep UT is?

- A. Kavaratti**
- B. Port Blair
- C. Silvassa
- D. Mahe

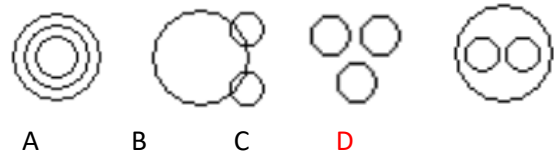
9. The classical dance Sattriya is from which State in India?

- A. Assam**
- B. Manipur
- C. Kerala
- D. Telangana or AP

10. The first Indian to win an Olympic Medal is?

- A. Neeraj Chopra
- B. KD Jadav**
- C. Abhinav Bindra
- D. PV Sindhu

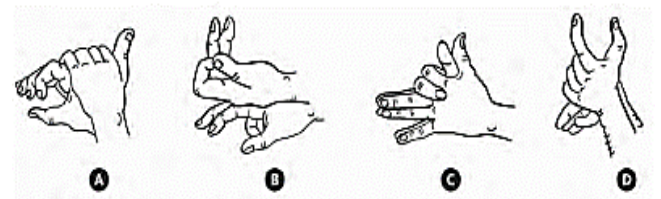
11. Which of the following diagrams indicates the best relation between Factory, Product and Machinery ?



12. The difference between a discount of 35% and two successive discounts of 20% and 20% on a certain bill was Rs. 22. Find the amount of the bill?

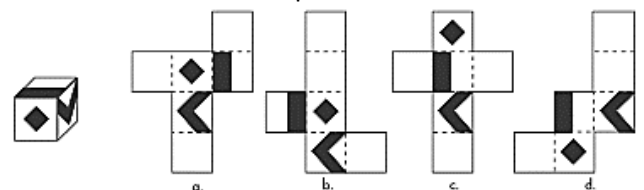
- A. Rs. 1100
- B. Rs. 200
- C. Rs. 1200
- D. None of these.**

13. Identify from the pose of the hand, the shadow of the animal on the wall:



- A. Wolf, Rabbit, Fox, Bull**
- B. Rabbit, Crow, Swan, Bull
- C. Wolf, Bat, Bull, Swan
- D. Crow, Swan, Fox, Bull

14. Choose the correct option: A



- A
- B
- C
- D

Instructions: Questions 15 to 22 carry 2 marks each

15. In the diagram, all triangles are equilateral. If Side,  $AB = 16$ , then the total area of all the black triangles is:



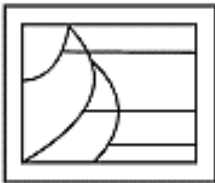
- A.  $25\sqrt{3}$
- B.  $27\sqrt{3}$
- C.  $35\sqrt{3}$
- D.  $37\sqrt{3}$

16. If 5 parallel straight lines are intersected by 4 parallel straight lines, then find the number of parallelograms thus formed.

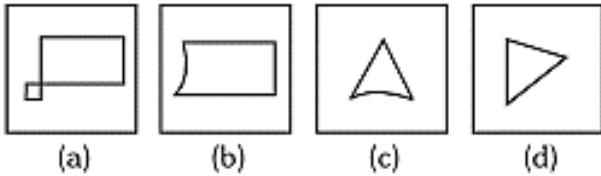
- A. 60
- B. 40
- C. 50
- D. 30

17. From the given answer the figure, select the one which is hidden/embedded, in the question figure. B

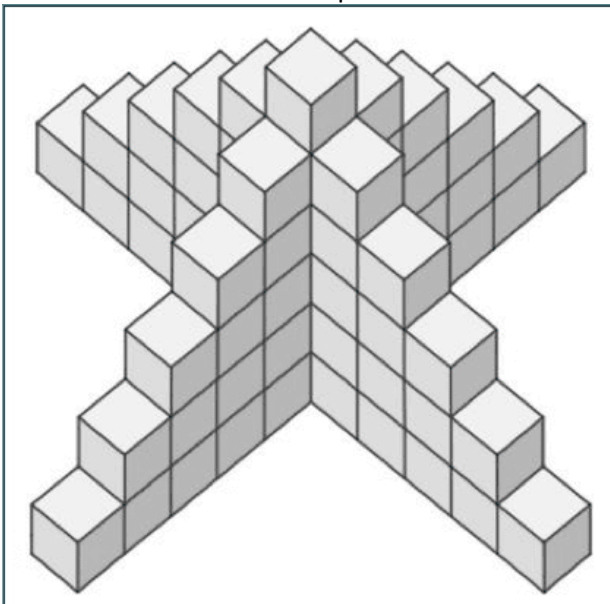
Question figure:



Answer figures:

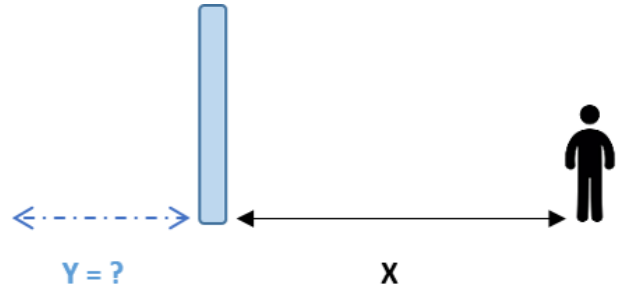


18. Can you solve the block counting puzzle by counting the number of blocks in the picture below?



- A. 67
- B. 66
- C. 68
- D. 69

19. A person is standing in front of a mirror, at precisely  $x$  meters away from the mirror.  $y$  denotes the distance of the person's reflection from the mirror. Choose the correct answer.

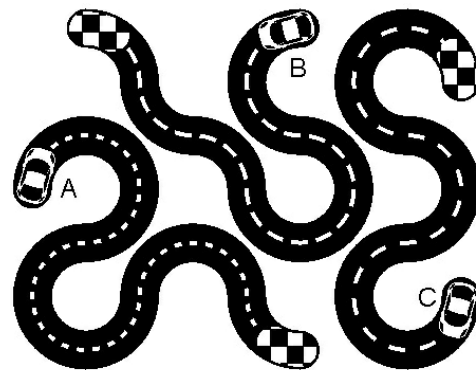


- A.  $y > x$
- B.  $y < x$
- C.  $y = x$
- D. None

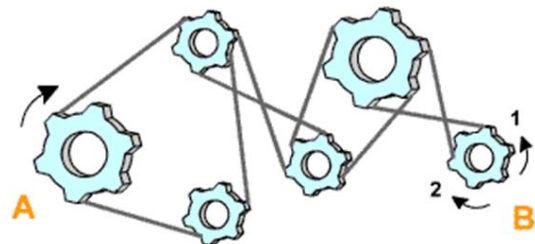
20. I am facing east. I turn  $100^\circ$  in the clockwise direction and then  $145^\circ$  in the anti-clockwise direction. Which direction am I facing now?

- A. East
- B. North-East
- C. North
- D. South – West

21. Which car will finish last? The cars are driving at the same speed. A



22. How does wheel B rotate if wheel A rotates clockwise at a constant velocity?



- A. Anticlockwise, lower velocity
- B. Clockwise, greater velocity
- C. Anticlockwise, greater velocity
- D. Clockwise, lower velocity

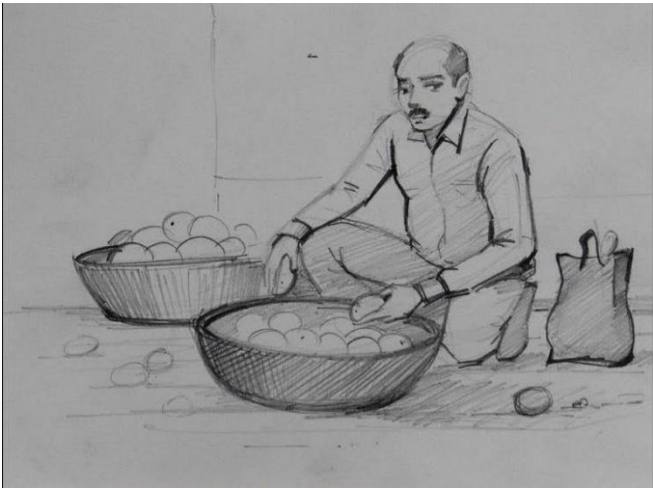
## PART II - CAT

Q1. Observe the image below of a café in Southern China. You are sitting inside the café and enjoying your coffee. Suddenly, there is an earthquake. You have to draw the scene of post the earthquake. (15 marks)



Q2. (a) Mr. Hari has gone to market to purchase fruits. In one frame, draw the scene of him walking away after his purchase is done. (10 marks)

Q2. (b) Imagine yourself as an insect, you see Hari walking in the market, draw your view. (5 marks)



Q3. You have to sketch a story in 4 frames on how this shoe is going to spend its day. Give a suitable title to your story. (10 marks)



Q4. Observe the frame carefully. In the next frame draw something unusual that has happened in the scene below. (10 marks)



Q5. Based on your imagination make a half-open match box. Draw 4 unconventional uses of the same. (10 marks)

### For Masters Students

Q5. You are a Poland based company which is into manufacturing portable houses. You have to design a flyer to attract potential customers. (10 marks)