CUET (UG) Question Paper - 2024

National Testing Agency

15th MAY 2024 - SHIFT 1

Section - III (General Test)

Examination Duration: 60 Minutes

General Instructions:

Marking scheme of the test:

- (a) There are 60 questions asked in the section- III. Attempt only 50 questions.
- (b) Correct answer or the most appropriate answer will be given five marks (+5).
- (c) Any incorrect option marked will be given minus one mark (-1).
- (d) Unanswered/Marked for review will be given no mark (0).
- **1.** Simplify: $24 \div 4 \times 2 + 8 4 = ?$
- (A) 1 **(B)**7

(C) 16 (D) 56

Ans. Option (C) is correct.

Explanation: Value of expression by using BODMAS rule $24 \div 4 \times 2 + 8 - 4 = 6 \times 2 + 8 - 4$ = 12 + 8 - 4= 16

- 2. The difference of the greatest and the smallest of the fractions $\frac{1}{2}, \frac{8}{11}, \frac{7}{8}, \frac{7}{9}, \frac{5}{6}$ is:
 - (B) $\frac{6}{7}$ (C) $\frac{7}{9}$ (D) $\frac{1}{3}$ (A) $\frac{3}{8}$

Ans. Option (A) is correct.

Explanation:

Given fractions are
$$\frac{1}{2}, \frac{8}{11}, \frac{7}{8}, \frac{7}{9}, \frac{5}{6}$$

Now, $\frac{1}{2} = 0.5, \frac{8}{11} = 0.72,$
 $\frac{7}{8} = 0.87, \frac{7}{9} = 0.777,$
 $\frac{5}{6} = 0.86$
So, required difference

 $=\frac{7}{8}-\frac{1}{2}=\frac{7-4}{8}=\frac{3}{8}$

3. The sum of the LCM and HCF of two numbers is 854. If the LCM is 60 times the HCF and one of the numbers is 70, then the other number is.

(A) 160 **(B)**164 (C) 168 (D) 172 Ans. Option (C) is correct.

Explanation: Let the HCF of given numbers = xThen LCM = 60xAccording to the question, x + 60x = 85461x = 854 \Rightarrow

 \Rightarrow x = 14HCF = 14So, $LCM = 60 \times 14 = 840$ and Using, LCM \times HCF = 1st No. \times 2nd No. $14 \times 840 = 70 \times 2^{nd}$ No. \Rightarrow 2^{nd} No. = 168 \Rightarrow

Maximum Marks - 250

4. The present age of Harish is 8 times the sum of the ages of his two sons. After 8 years, his age will be 2 times the sum of the ages of his two sons. The present age of Harish (in years) is: (D) 34

(C) 33 (A) 31 **(B)** 32

Ans. Option (B) is correct.

Explanation:

Let the sum of the ages of his two sons at present = x year So, present age of Harish = 8x years According to the question, after 8 years, 8x + 8 = 2(x + 8 + 8)8x + 8 = 2x + 326x = 24 \Rightarrow x = 4 \Rightarrow So, present age of Harish = 8×4 =32 years

5. In an examination, it is required to get 300 marks to pass. A students gets 225 marks and is declared fail by 10% marks. What are the maximum marks of the examination?

(A) 700 **(B)**750 (C) 800 (D) 850 Ans. Option (B) is correct.

Explanation:

 \Rightarrow

So,

Given that passing marks = 300

the total marks = xLet

According to the question,

$$225 + \frac{10}{100} \times x = 300$$
$$x = 750$$
maximum marks = 750

6. In a class of 40 students, ratio of boys and girls is 3 : 2 and the average marks scored by boys is 42 and the average marks scored by girls is 46. Then the average marks scored by the whole class is:

	(A) 43.4	(B) 43.6	(C) 43.8	(D) 44
Ans.	Option (B) is correct.		

Explanation:

The average marks scored by boys = 42 The average marks scored by boys = 46 And ratio of boys to girls $(n_1, n_2) = 3:2$ using the formulae

Average = $\frac{(n_1x_1 + n_2x_2)}{(n_1 + n_2)}$ So, required average = $\frac{42 \times 3 + 46 \times 2}{2 + 3}$ = 43.6

7. The sum of three numbers is 136. If the ratio between the first number and the second number is 2 : 3 and the ratio between the second and the third number is 5 : 3 then the first number is:

(A) 42 (B) 40 (C) 36 (D) 32 Ans. Option (B) is correct.

Explanation:

Since ratio of first and second number is given, and ratio of second and third number is given so to make ratio of second number equal, multiply each ratio by 5 to make the ratio of the second number equal. Given that ratio 1^{st} and 2^{nd} no. = 2:3 = 10:15And ratio 2^{nd} and 3^{rd} no. = 5:3 = 15:9So, ratio of 1^{st} , 2^{nd} and 3^{rd} no. = 10:15:9Let 1^{st} , 2^{nd} and 3^{rd} no. are 10x, 15x and 9x.

Let 1^{st} , 2^{nd} and 3^{rd} no. are 10x, 15x and According to the question, 10x + 15x + 9x = 136

 $\Rightarrow \qquad 34x = 136$ $\Rightarrow \qquad x = 4$

- So, the 1^{st} number = $10 \times 4 = 40$
- 8. An item is sold for ₹ 504 after allowing 20% discount and still a profit of 5% has been earned. The marked price is how much more than the cost price?

```
(A) ₹ 120 (B) ₹ 135 (C) ₹ 150 (D) ₹ 160
Ans. Option (C) is correct.
```

Explanation:

Let the marked price = $\overline{\mathbf{x}} x$ According to the question, $x \times \frac{100 - 20}{100} = 504$ $\Rightarrow x = 630$ So, marked price = $\overline{\mathbf{x}} 630$ Let the cost price = $\overline{\mathbf{x}} y$ Again, according to the question, $y \times \frac{105}{100} = 504$ $\Rightarrow y = 480$ So, cost price = $\overline{\mathbf{x}} 480$ Now, required difference $= 630 - 480 = \overline{\mathbf{x}} 150$ 9. A certain sum becomes ₹ 2,356 in 3 years and 2,660 in 5 years on simple interest. The value of sum is :
(A) ₹ 1,800 (B) ₹ 1,880 (C) ₹ 1,900 (D) ₹ 1,980

Ans. Option (C) is correct.

Explanation:
According to the qu

According to the question, SI earned in two years = 2660 - 2356 = ₹ 304So, SI earned per year $= \frac{304}{2} = ₹ 152$ Now, SI earned in 3 years $= 152 \times 3 = ₹ 456$ Principal = Amount - simple interest So, = 2356 - 456 = ₹ 1.900

- **10.** In a square, lengths of the diagonals are (4k + 6) cm and (7k 3) cm. The area of the square (in cm²) is :
- (A) 144 (B) 162 (C) 169 (D) 172

Ans. Option (B) is correct.

Explan	nation:
, I	We know that both the diagonals of square
á	are equal length.
1	According to the question,
	4k + 6 = 7k - 3
=	\Rightarrow $3k = 9$
=	\Rightarrow $k = 3$
2	So, length of diagonal = $4 \times 3 + 6$
	= 18 cm
1	Using, length of diagonal of square
	$=\sqrt{2} \times side$
:	$\Rightarrow \qquad \text{side} = \frac{18}{\sqrt{2}} = 9\sqrt{2}$
9	So, area of square = $side^2$
	$= 9\sqrt{2} \times 9\sqrt{2}$
	$=162 \text{ cm}^2$

11. The volume of a cylinder having base radius 3 cm is 396 cm^3 . Find its curved surface area (in cm²).

Use
$$\pi = \frac{22}{7}$$

(A) 280 (B) 301.5 (C) 264 (D) 320.6 Ans. Option (C) is correct.

> Explanation: Given that, Radius of base of cylinder = 3 cm Let the height of cylinder = h cm Using, volume = $\pi r^2 h$ \Rightarrow 396 = $\frac{22}{7} \times 3 \times 3 \times h$ \Rightarrow h = 14 cm So, curved surface area = $2\pi rh$ $= 2 \times \frac{22}{7} \times 3 \times 14$ $= 264 \text{ cm}^2$

12. A tap can fill a tank in 6 hours. After half the tank is filled, three more similar taps are opened. What is the total time taken to fill the tank completely? (A) 4 hours (B) 5 hours

	(C) 3 ho	ours 30 minutes	(D) 3 hours 45 minutes
Ans.	Option	(D) is correct.	

Explanation:

Given that half the tank is filled. So, given tap can fill the remaining tank in = 3 hHence, time taken by 4 similar taps to fill half the tank $=\frac{3}{4}$ h $=\frac{3}{4}\times60$ min $= 45 \min$ So, total time taken to fill the tank = 3 h 45 min

13. A train running at the speed of 80 km/h crosses a 350 m long tunnel in 36 seconds. The length of the train (in m) is (A) 350 (C) 420 (D) 450 **(B)** 380



Explanation:
Speed of the train = 80 kmph
=
$$80 \times \frac{5}{18}$$
 m/s
= $\frac{200}{9}$ m/s
Length of tunnel = 350 m
Let the length of train = x m
Using, distance = speed × time
 $\Rightarrow 350 + x = \frac{200}{9} \times 36$
 $\Rightarrow x = 800 - 350 = 450$
So, the length of train = 450 m

14. If the mean of 3, 4, 9, 2k, 10, 8, 6 and (k + 6) is 8, and mode of 2, 2, 3, 2p, (2p + 1), 4, 4, 5 and 6 (p is a natural number) is 4, then the value of (k - 2p) is: **(A)** 0 (B)1 (D) 3 (C) 2

Ans. Option (D) is correct.

```
Explanation:
                     sum of all observations
      Mean =
                 total number of observations
       Given that the mean of 3, 4, 9, 2k, 10, 8, 6
                   k + 6 = 8
       and
       \Rightarrow \frac{3+4+9+2k+10+8+6+k+6}{2}
                           8
                           = 8
                   46 + 3k = 64
       \Rightarrow
                          k = 6
       \Rightarrow
      Also given that the mode of 2, 2, 3, 2p, (2p)
       +1), 4, 4, 5, 6 = 4
                    2p + 1 = 4
      Means
                       p = \frac{3}{2}
       \Rightarrow
                   k - 2p = 6 - 2 \times \frac{3}{2} = 3
       So,
```

15. In triangle ABC, points D and E are on AB and AC, respectively such that DE is parallel to BC. If AD = 6 cm, DB = 4 cm, AE = 9 cm, then the length of EC (in cm) is: (C) 6 (D) 5.5

(A) 7 **(B)**6.4 Ans. Option (C) is correct.



Ans. Option (B) is correct.

Explanation:
Given that
$$\sin A = \frac{4}{5}$$

So, $\cos A = \sqrt{1 - \sin^2 A}$
 $= \sqrt{1 - \frac{16}{25}} = \frac{3}{5}$
Hence, $\tan A = \frac{(\sin A)}{(\cos A)} = \frac{4}{3}$
So, the value of $(3 - \tan A)(2 + \cos A)$
 $= \left(3 - \frac{4}{3}\right)\left(2 + \frac{3}{5}\right)$
 $= \frac{5}{3} \times \frac{13}{5} = \frac{13}{3}$

17. A man can row a boat at 8 km/h in still water. If the speed of the water current is 2 km/h and it taken he takes 2 hours to row to a place and come back, then how far off (in km) is the place?

(A) 7.5 **(B)**6 (C) 9.5 (D) 10

Ans. Option (A) is correct.

Explanation:



18. From the given options, which pass connects Jammu with Srinagar?

(A) B	anihal Pass	(B) Nathu La Pass
(C) N	Jiti Pass	(D) Rohtang Pass

Ans. Option (A) is correct.

Explanation: Banihal Pass links Jammu with Srinagar in the Indian union territory of Jammu and Kashmir. The Jawahar Tunnel passes through it, making it a vital transportation corridor between the Kashmir Valley and the rest of India. Banihal Pass, a well-known pass in Jammu and Kashmir, is located in the Pir Panjal Range. It links Banihal with Qazigund.

- **19.** Which of the following is not correctly matched regarding Padma Awards-2024?
 - (A) Padma Vibhushan Award \rightarrow Shri Konidela Chiranjeevi
 - (B) Padma Shri Award \rightarrow Mithun Chakraborty
 - (C) Padma Bhushan Award \rightarrow M. Fathima Beevi
 - (D) Padma Bhushan Award \rightarrow Sitaram Jindal

Ans. Option (B) is correct.

Explanation: Padma Awards are one of the country's highest civilian awards. These are conferred in three categories: Padma Vibhushan, Padma Bhushan and Padma Shri. Mithun Chakraborty was awarded with the Padma Bhushan Award, not the Padma Shri Award.

20. Match List-I with List-II :

	LIST-I (Person)		LIST-II (Area of work)
A .	Vishakhadatta	I.	Medicine
В.	Kartikeya Sarabhai	II.	Poet
C.	Charaka	III.	Environmentalist
D.	Satyendra Nath Bose	IV.	Mathematics

Choose the answer from the options given below:
(A) A-I, B-III, C-IV, D-II
(B) A-II, B-III, C-I, D-IV
(C) A-II, B-I, C-III, D-IV
(D) A-III, B-IV, C-I, D-II

Ans. Option (B) is correct.

Explanation:

Column A	Column B	Column C
Vishakhadatta	A famous Sanskrit poet known for his work "his work- 'Mudrakshasa' and 'Devichandraguptam'.	Poet
Kartikeya Sarabhai	An Indian industrialist and environmentalist known for his work in sustainable development.	Environmentalist
Charaka	An ancient Indian physician considered the "father of Indian medicine" and author of the Charaka Samhita, a foundational text of Ayurveda.	Medicine
Satyendra Nath Bose	A renowned Indian physicist who made significant contributions to quantum mechanics. He is famous for the Bose–Einstein condensate theory.	Physics/Mathematics

- **21.** The following states were formed after 1960. What was the correct sequence of their formation?
 - (A) Haryana (B) Sikkim
 - (C) Nagaland (D) Goa

Choose the answer from the options given below: **(A)** (C), (B), (A), (D) **(B)** (C), (A), (B), (D)

(C) (C), (D), (A), (B) (D) (D), (C), (A), (B)

Ans. Option (B) is correct.

Explanation: Here's the timeline of when these states were formed:

1. Nagaland: Formed on December 1, 1963.

- 2. Haryana: Formed on November 1, 1966.
- 3. Sikkim: Became a state on May 16, 1975.
- 4. Goa: Became a state on May 30, 1987. Therefore, the chronological order is Nagaland,

Haryana, Sikkim and Goa.

- **22.** Out of the given options, which scheme's objective is to conduct an annual survery at the gram panchayat level to monitor the progress in the development process of rural areas?
 - (A) Mission Antyodaya (2022–23)
 - (B) Mission Karmayogi (2022–23)
 - (C) Mission Rashtriya Gokul (2022–23)
 - (D) Mission Atmanirbhar Bharat (2022–23)

Ans. Option (A) is correct.

Explanation: Mission Antyodaya aims to identify the poorest individuals in rural India and ensure their inclusion in development programs while monitoring progress at the village level (gram panchayat). Mission Karmayogi focuses on civil service reforms, whereas Mission Rashtriya Gokul aims to enhance the quality and productivity of Additionally, indigenous cows. Mission Atmanirbhar Bharat is a comprehensive mission aimed at achieving self-reliance across various sectors.

23. Which one of the following countries is not a member of the "Quadrilateral Security Dialogue". also known as "QUAD" ?

(C) India (A) China (B) Japan (D) Australia Ans. Option (A) is correct.

> Explanation: China is not a member of the Quadrilateral Security Dialogue (QSD), also known as the Quad. The Quad is an informal, intergovernmental security forum established in 2007–08 among United States, Japan, Australia, and India. The Quad's primary objective is to work for a free, open, prosperous, and inclusive Indo-Pacific region.

- 24. Who has become the first woman chairperson of the Railway Board of Indian Railways in 2023?
 - (A) Java Verma Sinha
 - (**B**) Mita Vashishth (C) Ravneet Kaur (D) Vasudha Gupta

Ans. Option (A) is correct.

Explanation: The government has appointed Jaya Verma Sinha as the first woman Chairperson of the Railway Board, the highest decision-making body in the Ministry of Railways. Ms. Sinha is the first woman to lead the Board in its 118-year history, since its establishment in 1905.

25. Match List-I with List-II :

	LIST-I		LIST-II
	(Country)		(Currency)
A.	Myanmar	I.	Ruble
B.	Russia	II.	Ngultrum
C.	Malaysia	III.	Kyat
D.	Bhutan	IV.	Ringgit

Choose the answer from the options given below: (A) A-III, B-I, C-II, D-IV (B) A-III, B-I, C-IV, D-II (C) A-IV, B-I, C-III, D-II (D) A-II, B-I, C-IV, D-III

Ans. Option (B) is correct.

Explanation:	Here	is	the	correct	matching	in
column form	at:					
List-I				List-II		
(A) Myanma	r	((III)	Kyat		
(B) Russia		((I)	Ruble		
(C) Malaysia		((IV)	Ringgit		
(D) Bhutan		((II)	Ngultru	m	

- **26.** "Jhulaghat Suspension Bridge" between India and which country has become fully operational now? (A) Bhutan (B) Nepal
 - (C) China (D) Myanmar

Ans. Option (B) is correct.

Explanation: The Jhulaghat transit in the Baitadi district, connecting Nepal and India, commenced full operation on Wednesday, October 18, 2023. Previously under construction, the suspension bridge over the Mahakali River had been partially operational.

- **27.** Due to ocean acidification when the ocean becomes more acidic, what happens to the pH level of the ocean?
 - (A) The pH level goes down.
 - (B) The pH level stays the same.
 - (C) The pH level goes up.
 - (D) The pH level becomes zero.

Ans. Option (A) is correct.

Explanation: As the ocean becomes more acidic, its pH level decreases. The pH scale is logarithmic, meaning a one-point change represents a tenfold change in acidity concentration. Since 1950, the average pH of the ocean surface has decreased from approximately 8.15 to 8.05, indicating a 15% increase in acidity.

- **28.** Who is the first para-athlete to receive the Padma Bhushan award in India?
 - (A) Bhavina Patel
 - (B) Devendra Ihajharia
 - (C) Avani Lekhara
 - (D) Mariyappan Thangavelu
- Ans. Option (B) is correct.

Explanation: Devendra Jhajharia made history by becoming the first para-athlete to be conferred with the Padma Bhushan, India's third-highest civilian award. Devendra is a 40year old javelin thrower, Jhajharia celebrated for his achievements as a multiple-time Paralympic medalist.

29. Zemu Glacier is located in which state of India? (A) Uttarakhand (B) Himachal Pradesh

(D) Arunachal Pradesh

Ans. Option (C) is correct.

(C) Sikkim

Explanation: Zemu Glacier is situated at the base of Kangchenjunga in the Himalayan region of Sikkim, India. It is the largest glacier in the Eastern Himalayas. It spans approximately 26 kilometres (16 miles) in length. The Zemu Glacier drains the east side of Kanchenjunga, the world's third-highest mountain.

- **30.** Who among the following is Chile's first woman President?
 - (A) Mary Robinson (C) Kim Campbell
 - (B) Michelle Bachelet
 - (D) Jennifer Shipley

Ans. Option (B) is correct.

Explanation: Michelle Bachelet served as the first female president of Chile from 2006 to 2010 and was re-elected in December 2013, securing over 62% of the vote. Her re-election marked the first time since 1932 that the president of Chile had won two competitive elections.

31. Which organisation developed and launched 'Ugram' Indigenous Assault Rifle for the armed forces?

(A) ISRO (B) BEL (C) HAL (D) DRDO Ans. Option (D) is correct.

Explanation: The Defence Research and Development Organisation (DRDO) has introduced an indigenous assault rifle named 'Ugram' aimed at fulfilling the operational needs of the armed forces, paramilitary forces, and state police organisations.

- **32.** Which of the following substances is a bad conductor of electricity?
 - (A) Diamond(B) Gold(C) Silver(D) Graphite

Ans. Option (A) is correct.

Explanation: Gold, silver and graphite are excellent conductors of electricity because they have free-flowing electrons that can easily carry electric current. However, diamond, despite being an exceptional conductor of heat, has a tightly packed crystal structure that restricts the movement of electrons. This structural characteristic makes a diamond a poor conductor of electricity.

33. Which of the following diseases is caused due to the deficiency of proteins?

(A) Arthritis	(B) Kwashiorkor
(C) Goitre	(D) Night Blindness

Ans. Option (B) is correct.

Explanation: Kwashiorkor is a disease resulting from severe protein deficiency and is also referred to as edematous malnutrition due to its link with edema. Symptoms include swollen ankles and feet, a distended abdomen, fatty liver, thinning hair, dermatitis and tooth loss. Children may additionally exhibit anorexia and irritability as part of the condition.

34. Match List I with List II.

		and the second second	
	LIST I		LIST II
А.	INS Chilka	I.	Goa
B.	INS Hansa	II.	Andhra Pradesh
C.	INS Satavahana	III.	Kerala
D.	INS Garuda	IV.	Odisha

Choose the most appropriate answer from the options given below:

(A) A-III, B-I, C-II, D-IV (B) A-I, B-IV, C-II, D-III (C) A-IV, B-I, C-III, D-II (D) A-IV, B-I, C-II, D-III

Ans. Option (D) is correct.

Explanation: Here is the corrected matching of the locations:

List-I	List-II
(A) INS Chilka	(IV) Odisha (For training
	Sailors)
(B) INS Hansa	(I) Goa (For Naval
	Aviation)
(C) INS Satavahana	ı (II) Visakhapatnam,
	Andhra Pradesh (For
	Submarines)
(D) INS Garuda	(III) Kochi, Kerala (For
	Naval Air Station)

- **35.** DRDO has conducted the first successful flight test of Agni-5 missile equipped with MIRV technology. What is the full form of MIRV?
 - (A) Multiple Independently Targetable Re-Entry Vehicle
 - (B) Mission India Target Re-Entry Vehicle
 - (C) Multiple Independently Technology Re-Entry Vehicle
 - (D) Multiple Indirect Targetable Re-Entry vehicle

Ans. Option (A) is correct.

Explanation: The Defence Research and Development Organisation (DRDO) successfully conducted the first flight test of the indigenously developed Agni-5 missile equipped with Multiple Independently Targetable Re-entry Vehicle (MIRV) technology. Named Mission Divyastra, the test took place at Dr APJ Abdul Kalam Island in Odisha. Telemetry and radar stations monitored multiple re-entry vehicles throughout the mission, which met all specified parameters.

36. Which Indian has won the "Ramon Magsaysar Award-2023"?

(A) Korvi Rakshand (B) Ashwini Kumar

- (C) Dipti Ranjan Sahoo (D) Dr. Ravi Kannan R
- Ans. Option (D) is correct.

Explanation: Dr R Ravi Kannan, a surgical oncologist based in Assam, has been awarded the Ramon Magsaysay Award 2023 for his transformative work in cancer treatment. His people-centred and pro-poor programmes have revolutionised cancer care in Assam, earning him this prestigious recognition.

- **37.** Who has been appointed the Chairman of the 16th Finance Commission of India?
 - (A) Ajay Narayan Jha
 - (B) Smt. Annie George Mathew
 - (C) Pradip Kumar Mohanty
 - (D) D. Arvind Panagariya

Ans. Option (D) is correct.

Explanation: The Sixteenth Finance Commission was established on December 31, 2023, with Shri Arvind Panagariya, former Vice-Chairman of NITI Aayog, appointed as its Chairman. This Commission has been tasked with presenting its recommendations by October 31, 2025, covering a 5-year award period starting from April 1, 2026.

38. Sri Rangnathswamy Temple which is situated in Tamil Nadu, is dedicated to which deity?

(A) Lord Shiva	(B) Lord Vishnu
----------------	-----------------

(C) Goddess Durga (D) Goddess Lakshmi

Ans. Option (B) is correct.

Explanation: The Sri Ranganathaswamy Temple, also known as Thiruvaranga Tirupati, is one of the most revered Vaishnavite temples in India. It is dedicated to Ranganatha, an aspect of the Hindu deity Vishnu depicted in a reclining posture.

39. The Elecion Commission of India gets the power to conduct elections from which of the following articles?

(A) Article 324	(B) Article 280
(C) Article 264	(D) Article 26

Ans. Option (A) is correct.

Explanation: The Election Commission of India gets the power to conduct elections from Article 324 of the Indian Constitution. This article empowers the Election Commission to supervise and conduct elections to the Parliament of India, State Legislatures and the offices of the President and Vice President of India.

40. Match List I with List II.

	LIST-I		LIST-II
A.	Mon	I.	Arunachal Pradesh
B.	Nalbari	II.	Assam
C.	Pasighat	III.	Meghalaya
D.	Tura	IV.	Nagaland

Choose the most appropriate answer from the options given below:

(A) A-IV, B-II, C-I, D-III (B) A-I, B-III, C-IV, D-II

(C) A-IV, B-III, C-I, D-II (D) A-I, B-II, C-IV, D-III

Ans. Option (A) is correct.

Explanation: Here is the corrected matching of locations with their descriptions:

	List-I		List-II	
(A)	Mon	(IV)	Nagaland – This town is known for its rich handicraft traditions, including textiles, woodcarvings, and metalwork.	
(B)	Nalbari	(II)	Assam – This district is famous for its bamboo and cane crafts, including furniture, utensils and decorative items.	

(C)	Pasighat	(I)	Arunachal Pradesh – This town is known for its weaving, woodcarving and metalwork, and is a centre for the production of traditional dresses and souvenirs.
(1	D)	Tura	(III)	Meghalaya – This city is a hub for weaving and other handicrafts, particularly known for its production of colourful textiles, baskets, and other woven goods.

41. In which state is "Amachang Wildlife Sanctuary" located?

(A) Assam(B) Rajasthan(C) Odisha(D) Manipur

Ans. Option (A) is correct.

Explanation: The Amchang Wildlife Sanctuary is situated on the eastern outskirts of Guwahati, Assam, India. Its name is derived from Arleng village, known as Amcheng, which lies within the sanctuary. This protected area is renowned for its diverse wildlife, including rare and endangered birds and animals.

42. India's first 3D-printed Post Office has been inaugurated in:

(A) Guwahati	(B) Kolkata
(C) Mumbai	(D) Bengaluru

Ans. Option (D) is correct.

Explanation: The 3D-printed Post Office in India was inaugurated at Cambridge Layout in east Bengaluru by Ashwini Vaishnaw, Union Minister for Railways, Communications, Electronics & Information Technology. This innovative facility is noted as the first commercial building in India constructed using 3D-printing technology and spans a built-up area of 1,000 square feet.

43. What should come in the place of the question mark (?) in the following alphanumeric series? A1X, B4P, E25J, J100F, ?

(A) O289D (B) O225E (C) Q289D (D) Q225E Ans. Option (C) is correct.

xplanation:					
Given series, A1X, B4P, E25J, J100F, ?					
Pattern followed:					
A + 1 = B + 3 = E + 5 = J					
\Rightarrow J + 7 = Q					
And $X - 8 = P - 6 = J - 4 = F$					
\Rightarrow F-2 = D					
And numbers are the square of first alphabet in given series. So, missing term = Q289D					

44. In the given analogy, choose the word which will replace the question mark: NEGI : MVTR : SING : ?

(A) TRNS (B) TRNT (C) FRMT (D) HRMT Ans. Option (D) is correct.

Explanation:

Given, NEGI : MVTR :: SING : ? Pattern followed: Each alphabet of second word is opposite alphabet of first word. $N \Rightarrow M$ $E \Rightarrow V$ $G \Rightarrow T$ $I \Longrightarrow R$ $S \Rightarrow H$ Now, $I \Rightarrow R$ $N \Rightarrow M$ $G \Rightarrow T$ Hence, missing term = HRMT

45. In a certain code language 'ki ru pi' means 'nobody like cruel', 'ki mi cha' means 'king was cruel' and 'ru pi cha' means 'nobody like king'. What is the code for 'was' in the given code language?

(A) ki (B) mi	(C) cha	(D) ru
---------------------------------	----------------	---------------

Ans. Option (B) is correct.

Explanation:

Given code,
Ki ru pi \Rightarrow nobody like cruel(1)
Ki mi cha \Rightarrow king was cruel(2)
Ru pi cha \Rightarrow nobody like king(3)
Form (1) and (2), code for cruel \Rightarrow ki
From (2) and (3), code for king \Rightarrow cha
From (1) and (3), code for nobody \Rightarrow pi
So, code for was \Rightarrow mi

- **46.** Read the following information carefully to choose the best option for the question:
 - 'P % Q' means that 'P is the sister of Q'
 - 'P + Q' means that 'P is the son of Q'
 - 'P \times Q' means that 'P is the husband of Q'
 - 'P Q' means that 'P is the brother of Q'

Which of the following means 'A' is the son-in-law of G'?

(A) $A \times U + S \times G$	(B) A + S % U × G
(C) $A - S + U \times G$	(D) A × U % S + G

Ans. Option (D) is correct.

Explanation: G $A^+ = U^- S^+$ According to the above diagram. A is sonin-law of G. From the given options, only option (D) showing that A is son in law of G.

47. If 26th January 2020 was a Sunday, then what day of the week it on 16th March of that year? (A) Sunday (B) Monday

Total number of odd days between 26th January and 16th March = 5 + 29 + 16 = 50Number of odd days = remainder of $\frac{50}{7} = 1$ So, day on 16th March = Sunday + 1= Monday

48. What will be he measurement of the angle made by the hour and minute hands of a clock when the time is 'quarter past' 3?

(A)
$$6\frac{1^{\circ}}{2}$$
 (B) 10° (C) $7\frac{1^{\circ}}{2}$ (D) $8\frac{1^{\circ}}{2}$

Ans. Option (C) is correct.

Explanation:

Angle between minute hand and hour hand at quarter past three

> $= 30 \times 3 - \frac{11}{2} \times 15$ $= 7\frac{1^{\circ}}{2}$

- 49. If in a certain code laguage, 'MERCURY' is coded as 'NGUGZXF', then how will 'ENTANGLE' be coded in the same code language?
 - (A) FPXFSMSM (B) FPWESMSM (C) FPWESNSN
 - (D) FPWFTNSM
- Ans. Option (B) is correct.

Explanation: Given pattern: M + 1 = NE + 2 = GR + 3 = UC + 4 = GU + 5 = ZR + 6 = XY + 7 = FSo, E + 1 = FN + 2 = PT + 3 = WA + 4 = EN + 5 = SG + 6 = ML + 7 = SE + 8 = MHence, the code for ENTANGLE will be: **FPWESMSM**

- 50. The problem given below consists of a question and two statements numbered I and II. You have to decide whether the data provided in the statements are sufficient to answer the question.
 - (I) Sunny is the only son of his parents.
 - (II) Sunny's parents have three children.

- (A) Only statement I alone is sufficient to answer the question.
- (B) Only statement II alone is sufficient to answer the question.
- (C) Statements I and II together are sufficient to answer the question.
- (D) Either statement I and II alone is sufficient to answer the question.

Ans. Option (C) is correct.

Explanation: From statement I: it is clear that Sunny is the only son.

From statement II: it is clear that Sunny has two sisters.

Statements I and II together are sufficient to answer the question.

51. A boy leaves his house. He travels 6 km towards South, then travels 8 km towards West and further travels 9 km towards South. How far and in which direction is he from his house now?

(A) 13 km, South West (B) 17 km, South West (D) 13 km, West

(C) 17 km, North West





52. Find out which of the answer figures completes the figure matrix:

Problem figure:

000 444	Ŷ	
	O ∯	Ŷ
	22	?



Ans. Option (B) is correct.

Explanation:

Given pattern: Difference between the number of persons in 1st and 2nd columns will be in 3rd column. Number of persons in 1st column-Number of persons in 2^{nd} column = Number of persons in 3rd column So, option (B) is correct.

53. A clock seen through a mirror shows 'quarter to seven' What is the correct time shown by the clock? (A) 6:15 **(B)**6:17 (C) 5:17 **(D)** 5:15

Ans. Option (D) is correct.



54. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Ans.Option (B) is correct.

Explanation: According to the given pattern of cutting, option (B) will be correct.

55. Find out the missing (?) number and letter.



Ans. Option (B) is correct.

Explanation:

Given Pattern: For numbers: Starting from 5, next number in anticlockwise direction is obtained by adding consecutive prime numbers, i.e.,

$$5 + 3 = 8$$

$$8 + 5 = 13$$

$$13 + 7 = 20$$

$$20 + 11 = 31$$

$$31 + 13 = 44$$
So, missing number = 44 + 17 = 61
For alphabets: in every rectangle, the
difference in alphabets is in increasing
order, i.e.,

$$A + 2 = C$$

$$C + 3 = F$$

$$E + 4 = I$$
So, missing alphabet = G + 5 = L

- **56.** What will be the next number of the series. 3, 6, 10.5, 17, 26, ? (A) 31 (B) 38 (C) 40 (D) 41
- Ans. Option (B) is correct.



57. In a class of 40 students, Anjali's rank is thrice that of Anita. There are 4 students who have ranks worse than that of Anita's rank in the class is:
(A) 9th
(B) 10th
(C) 18th
(D) 12th





58. Six people E, H, K, M, S and U are seated in a circle facting the centre. U and H are immediate neighbours of M, E is the only person sitting between K and S. H is to the immediate right of S. Who is to the immediate right of U.?



Ans. Option (C) is correct.



59. Find out which of the answer figures from the options can be formed using all the pieces given in the problem figure.



Explanation:

From the given options, only option (D) figure can be formed by using the question figure.

60. Read the given statements and conclusions carefully assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts. Decide which of the given conclusion(s) logically follows from the statements. **Statements:**

No keyboard is a mouse.

- All mouses are computers.
- All computers are laptops.
- Conclusions:
- I. All mouses are laptops.
- II. All computers can never be keyboards.
- (A) Only conclusion I follows
- (B) Only conclusion II follows
- (C) Neither conclusion I nor II follows
- **(D)** Both conclusions I and II follow
- Ans. Option (D) is correct.

