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IB

Previous Year Paper
20-Feb-2021 Shift 2



ACIO Grade II Executive 20th Feb 2021

Participant ID	
Participant Name	
Test Center Name	iON Dizital Zone Faridabad
Test Date	20/02/2021
Test Time :	12:00 PM - 1:00 PM
Subject	ACIO Grade II (Executive)

Section : General awareness Current Affairs

Q.1 From which of the following launch bases was India's telecommunication satellite named GSAT-30 launched?

- Ans ☒ 1. Kourou Launch Base
- ☒ 2. Kennedy Space Centre
- ☒ 3. Baikonur Cosmodrome
- ☒ 4. Satish Dhawan Space Centre

Question ID : 59445929410
Status : Answered
Chosen Option : 4

Q.2 Every year, 22 December is celebrated as National Mathematics Day. Which of the following statements is/are INCORRECT regarding the day?

1. The day was declared as National Mathematics Day to commemorate the birth anniversary of Mathematician Srinivasa Ramanujan by Prime Minister Manmohan Singh on 26 February 2012 at Madras University
2. In 1917, Ramanujan was elected to be a member of the London Mathematical Society
3. In 2015, the day's significance was enhanced by the opening of the Ramanujan Math Park in Andra Pradesh
4. The number 1729 is known as the Hardy–Ramanujan number

Select the correct answer using the code given below.

- (a) 1 only
- (b) 2 and 4 only
- (c) 3 only
- (d) 2 and 3 only

- Ans ☒ 1. a
- ☒ 2. d
- ☒ 3. c
- ☒ 4. b

Question ID : 59445929420
Status : Not Answered
Chosen Option : --

Q.3 Which one of the following offices was brought under Right to Information Act in 2019?

- Ans
- ☒ 1. Chief Vigilance office
 - ☐ 2. Chief Justice of India
 - ☒ 3. Attorney general of India
 - ☒ 4. Comptroller and Auditor General of India

Question ID : 59445929408
Status : Answered
Chosen Option : 2

Q.4 India ranked _____ in the 12th edition of the biennial Environment Performance Index (EPI Index 2020) that measured the environmental performance of 180 countries.

- Ans
- ☒ 1. 121
 - ☒ 2. 101
 - ☒ 3. 178
 - ☐ 4. 168

Question ID : 59445929404
Status : Answered
Chosen Option : 2

Q.5 Which of the following three statements are true?

- (A) In August 2020 Air India Express Flight 1344 Crashed after overrunning the Runway at Calicut International Airport, Kerala.
(B) In September 2020 the court acquitted all the 32 accused of the Demolition of the Babri Masjid.
(C) In October 2020 Madhya Pradesh government approved an anti-conversion bill.
(D) In June 2020 the Cyclone Nisarga hit the western coast of India, causing damage in the state of Maharashtra.

- Ans
- ☒ 1. A, C and D
 - ☒ 2. B, C and D
 - ☒ 3. A, B and C
 - ☐ 4. A, B and D

Question ID : 59445929416
Status : Not Answered
Chosen Option : --

Q.6 Who is first ISRO woman to have completed 403 days in Antarctica?

- Ans
- ☐ 1. Mangala Mani
 - ☒ 2. Ritu Karidhal
 - ☒ 3. Chandrima Saha
 - ☒ 4. Muthayya Vanitha

Question ID : 59445929407
Status : Not Answered
Chosen Option : --

Q.7 Match List-1 and List-2 and select the correct answer by using the code given below the list.

List-1 (Name of the Author)	List-2 (Name of the Book)
A. Vladimir Nabokov	1. Lord of the Flies
B. F. Scott Fitzgerald	2. War and Peace
C. William Golding	3. Lolita
D. Leo Tolstoy	4. The Great Gatsby

- Ans
- ☒ 1. A-1, B-3, C-2, D-4
 - ☒ 2. A-4, B-2, C-3, D-1
 - ☒ 3. A-3, B-4, C-1, D-2
 - ☒ 4. A-1, B-2, C-4, D-3

Question ID : 59445929415
Status : Not Answered
Chosen Option : --

Q.8 Who among the following won the World Food Prize 2020?

- Ans
- ☒ 1. Nadia Murad
 - ☒ 2. Rattan Lal
 - ☒ 3. Norman Borlaug
 - ☒ 4. Gurdev Singh Khush

Question ID : 59445929409
Status : Not Answered
Chosen Option : --

Q.9 For which sport did Kale Sarika Sudhakar won the Arjuna Award 2020?

- Ans
- ☒ 1. Basketball
 - ☒ 2. Kho-kho
 - ☒ 3. Kabbadi
 - ☒ 4. Golf

Question ID : 59445929401
Status : Not Answered
Chosen Option : --

Q.10 Joaquin Phoenix won the Oscars 2020 award in the category of “Performance for an Actor in a Leading Role” for the movie:

- Ans
- ☒ 1. Joker
 - ☒ 2. Marriage Story
 - ☒ 3. Once Upon a time in Hollywood
 - ☒ 4. Pain and Glory

Question ID : 59445929405
Status : Answered
Chosen Option : 1

Q.11 Match List-1 and List-2 and select the correct answer by using the code given below the list.

List-1 (Company)	List-2 (CEO)
A. Uber	1. Ren Zhengfei
B. Huawei	2. Dara Khosrowshahi
C. Zoom	3. Reed Hastings
D. Netflix	4. Eric Yuan

- Ans
- ☒ 1. A-2, B-1, C-3, D-4
 - ☒ 2. A-1, B-2, C-4, D-3
 - ☒ 3. A-2, B-1, C-4, D-3
 - ☒ 4. A-1, B-4, C-3, D-2

Question ID : 59445929417
Status : Not Answered
Chosen Option : --

Q.12 Match List-1 with List-2 and select the correct answer by using the code given below the list.

List-1 (Name of Government Scheme)	List-2 (The Year of Launch)
A. Pradhan Mantri Matsya Sampada Yojana	1. 2014
B. Pradhan Mantri Garib Kalyan Yojana (PMGKY)	2. 2016
C. Shramev Jayate Yojana	3. 2020

- Ans
- ☒ 1. A-1, B-2, C-3
 - ☒ 2. A-2, B-1, C-3
 - ☒ 3. A-2, B-3, C-1
 - ☒ 4. A-3, B-2, C-1

Question ID : 59445929418
Status : Answered
Chosen Option : 2

Q.13 Which of the following statements about former United States President Donald Trump is/are correct?

- (1) He is the first US president to be impeached twice
- (2) He was the 44th president of the United States

- Ans
- ☒ 1. Neither 1 nor 2
 - ☒ 2. 2 only
 - ☒ 3. 1 only
 - ☒ 4. Both 1 and 2

Question ID : 59445929412
Status : Answered
Chosen Option : 3

Q.14 Which of the following statements about Vande Bharat Express are correct?

- A) It is also known as Train 18.
- B) The train is partly produced locally at the Integral Coach Factory in Chennai.
- C) It is a semi-high speed train.
- D) It will run between Mumbai and Ahmedabad.

- Ans
- ☒ 1. B and D
 - ☒ 2. A and B
 - ☒ 3. A and C
 - ☒ 4. A, C and D

Question ID : 59445929403
Status : Answered
Chosen Option : 2

Q.15 Which of the following statement is correct about Swedish environmental activist Greta Thunberg?

- (1) She was featured as TIME's Person of the Year 2020 in Times Magazine
- (2) She gave speeches at the World Economic Forum in Davos, Switzerland, and at the European Parliament as well as in front of the legislatures of Italy

- Ans
- ☒ 1. Neither 1 nor 2
 - ☒ 2. 2 only
 - ☒ 3. 1 only
 - ☒ 4. Both 1 and 2

Question ID : 59445929414
Status : Answered
Chosen Option : 3

Q.16 The work for which Sindhi poet and writer Vasdev Mohi won the Saraswati Samman for the year 2019 is titled:

- Ans
- ☒ 1. Chequebook
 - ☒ 2. Chitt-Chete
 - ☒ 3. Pakkaki Ottigilite
 - ☒ 4. Vakhar

Question ID : 59445929406
Status : Not Answered
Chosen Option : --

Q.17 On 30th December 2020, the Union Minister of Health and Family Welfare Dr Harsh Vardhan was nominated by the Global Alliance for Vaccines and Immunisation (GAVI). Which of the following statements related to GAVI is/are CORRECT?

- 1. GAVI was created in 2000 as a successor to the Children's Vaccine Initiative, which had been launched in 1990.
- 2. GAVI was awarded the 2019 Lasker-Bloomberg Public Service Award for 'providing sustained access to childhood vaccines around the globe'

Select the correct answer using the code given below.

- Ans
- ☒ 1. Neither 1 and 2
 - ☒ 2. 2 only
 - ☒ 3. 1 only
 - ☒ 4. Both 1 and 2

Question ID : 59445929419
Status : Not Answered
Chosen Option : --

Q.18 Consider the following statements about Booker Prize 2020.

- (1) Douglas Stuart's won this award.
- (2) He received this award for his novel The Testaments

Which of the statements given above is/are correct?

- Ans
- ☒ 1. Neither 1 nor 2
 - ☒ 2. 2 only
 - ☒ 3. 1 only
 - ☒ 4. Both 1 and 2

Question ID : 59445929411
Status : Not Answered
Chosen Option : --

Q.19 Which of the following statements is true about the recent procurement of Tejas fighter's aircraft by IAF?

- (1) The IAF has recently purchased 83 Tejas fighters aircraft from HAL
- (2) The total deal is of Rs. 78,000-crore

- Ans
- ☒ 1. 1 only
 - ☒ 2. Neither 1 nor 2
 - ☒ 3. Both 1 and 2
 - ☒ 4. 2 only

Question ID : 59445929413
Status : Not Answered
Chosen Option : --

Q.20 Who is the recipient of First Prof. P C Mahalanobis Award in Official Statistics for lifetime achievement?

- Ans
- ☒ 1. Dr. D. Subbarao
 - ☒ 2. M Narasimham
 - ☒ 3. Bimal Jalan
 - ☒ 4. C.Rangarajan

Question ID : 59445929402

Status : Answered

Chosen Option : 1

Section : General studies

Q.1 Gully erosion is primarily due to:

- 1. water
- 2. wind
- 3. shifting agriculture

Select the correct answer using the codes given below.

- Ans
- ☒ 1. 1 only
 - ☒ 2. 1 and 3
 - ☒ 3. 2 and 3
 - ☒ 4. 2 only

Question ID : 59445929439

Status : Answered

Chosen Option : 2

Q.2 Who out of the following is a maestro of Sautoor?

- Ans
- ☒ 1. Ustad Alla Rakha
 - ☒ 2. Pandit Ajoy Chakraborty
 - ☒ 3. Pandit Hariprasad Chaurasia
 - ☒ 4. Pandit Shivkumar Sharma

Question ID : 59445929428

Status : Not Answered

Chosen Option : --

Q.3 Kud dance is one of the most popular folk dances of _____.

Ans ☒ 1. Jammu and Kashmir

☒ 2. Haryana

☒ 3. Madhya Pradesh

☒ 4. Kerala

Question ID : 59445929429

Status : **Answered**

Chosen Option : 2

Q.4 What is one - half of the wave height called?

Ans ☒ 1. Wave period

☒ 2. Wave frequency

☒ 3. Wave amplitude

☒ 4. Wave speed

Question ID : 59445929425

Status : **Answered**

Chosen Option : 3

Q.5 How does air pollution affect living organisms?

1. Sulphur dioxide irritates the respiratory tissues.
2. Nitrogen oxides, especially NO₂, can irritate the lungs.
3. Suspended particles in the air aggravate our respiratory tract, leading to bronchitis and asthma.
4. Many volatile organic compounds and toxic particulates can cause mutations, reproductive problems or cancer.

Select the correct answer using the codes given below.

Ans ☒ 1. 1 and 2 only

☒ 2. 2 and 3 only

☒ 3. 3 and 4 only

☒ 4. 1, 2, 3 and 4

Question ID : 59445929438

Status : **Answered**

Chosen Option : 4



Q.6 Match List-I with List-II and select the correct answer using the codes given below the lists.

List-I (Terms used in ancient India)	List-II (Meanings of these terms)
A. Sethi	1. A heterodox sect of the time of the Buddha
B. Kutumbi	2. A territorial unit in south India
C. Nadu	3. Householder
D. Ajivika	4. Merchant

- Ans
- ☒ 1. A-3, B-2, C-1, D-4
 - ☒ 2. A-1, B-4, C-3, D-2
 - ☒ 3. A-4, B-3, C-2, D-1
 - ☒ 4. A-2, B-1, C-4, D-3

Question ID : 59445929436
Status : Not Answered
Chosen Option : --

Q.7 Consider the following initiatives taken to improve female labour work participation rate in the recent past.

1. Women Helpline Scheme (WHL) has been implemented since 1 April 2016 to provide 24 hours emergency and non-emergency response to women affected by violence and to provide information about women-related government schemes/programmes across the country through a single uniform number (185).
2. The One Stop Centre (OSC) scheme facilitates access to an integrated range of services including police, medical, legal, psychological support and temporary shelter to women affected by violence. One Stop Centres are being set up in all districts of the country.

Which of the statements given above is/are correct?

- Ans
- ☒ 1. 2 only
 - ☒ 2. Neither 1 nor 2
 - ☒ 3. 1 only
 - ☒ 4. Both 1 and 2

Question ID : 59445929432
Status : Not Answered
Chosen Option : --

Q.8 In April 2018, who among these became the highest ranked men's badminton player in the world?

- Ans
- ☒ 1. Srikanth Kidambi
 - ☒ 2. P.Gopichand
 - ☒ 3. Parupalli Kashyap
 - ☒ 4. Rajyavardhan Singh Rathore

Question ID : 59445929430
Status : Answered
Chosen Option : 2

Q.9 The crystallisation technique is better than the simple evaporation technique and:

1. 'crystallisation' is a process that separates a pure solid in the form of its crystals from a solution
2. it is applied for purification of salt that we get from sea water
3. it is applied for separation of crystals of alum from impure samples

Select the correct answer using the code given below.

- Ans**
- ☒ 1. 2 only
 - ☒ 2. 1 only
 - ☒ 3. 1, 2 and 3
 - ☒ 4. 3 only

Question ID : 59445929431

Status : Answered

Chosen Option : 3

Q.10 Which of the following statements defines 'chromatography'?

1. It is the process of separation of components of a mixture.
2. It is used to separate colours in a dye.
3. It is used to separate a mixture of oil and water.

Select the correct answer using the codes given below.

- Ans**
- ☒ 1. 1 and 2
 - ☒ 2. 3 only
 - ☒ 3. 2 and 3
 - ☒ 4. 2 only

Question ID : 59445929433

Status : Answered

Chosen Option : 4

Q.11 Which among the following is the heaviest gas?

- Ans**
- ☒ 1. Hydrogen
 - ☒ 2. Radon
 - ☒ 3. Argon
 - ☒ 4. Helium

Question ID : 59445929423

Status : Answered

Chosen Option : 1



Q.12 Which instrument is predominantly used in both, Hindustani and Carnatic music? It does not play melody but supports the singer or another instrument.

- Ans
- ☒ 1. Sitar
 - ☒ 2. Tanpura
 - ☒ 3. Mridangam
 - ☒ 4. Veena

Question ID : 59445929421

Status : Not Answered

Chosen Option : --

Q.13 Match List-I with List-II and select the correct answer using the codes given below the lists.

List-I (Sports)	List-II (Players associated with these sports)
A. Cricket	1. Saketh Myneni
B. Badminton	2. HS Prannoy
C. Hockey	3. Krishan B Pathak
D. Tennis	4. Hanuma Vihari

- Ans
- ☒ 1. A-1, B-4, C-3, D-2
 - ☒ 2. A-3, B-2, C-1, D-4
 - ☒ 3. A-2, B-1, C-4, D-3
 - ☒ 4. A-4, B-2, C-3, D-1

Question ID : 59445929434

Status : Not Answered

Chosen Option : --

Q.14 Which of the following evidence prove/s that the Himalayas are still rising?

1. The frequent occurrence of earthquakes in the Himalayan region shows that the Himalayas have not yet attained an isostatic equilibrium and they continue to rise further.
2. The Himalayan rivers have small basins and catchment area.
3. Some of the fossil formations found in the Shiwalik hills are also available in the Tibet Plateau.

Select the correct answer using the codes given below.

- Ans
- ☒ 1. 2 only
 - ☒ 2. 1 and 3
 - ☒ 3. 1 only
 - ☒ 4. 1, 2 and 3 only

Question ID : 59445929435

Status : Not Answered

Chosen Option : --



Q.15 Who is the first Indian CEO of Google?

- Ans
- ☒ 1. Indra Nooyi
 - ☒ 2. Satya Nadella
 - ☒ 3. Sundar Pichai
 - ☒ 4. Rajiv Suri

Question ID : 59445929427

Status : Answered

Chosen Option : 3

Q.16 Which of the following sentence is/are correct about crop rotation?

1. Crop rotation helps return nutrients to the soil without synthetic inputs.
2. Crop rotation is the practice of planting different crops sequentially on the same plot of land to improve soil health.
3. Crop rotation deteriorates the soil structure as same nutrients are used time and time again.

- Ans
- ☒ 1. 1 and 2
 - ☒ 2. 3 Only
 - ☒ 3. 1 and 3
 - ☒ 4. 1 Only

Question ID : 59445929440

Status : Answered

Chosen Option : 1

Q.17 Consider the following statements regarding Karnataka music compositions.

1. The vocal form 'rangam-tanam-pallavi' is generally the main item in Karnataka music concerts.
2. The Kirti is perhaps the most popular form in Karnataka music.
3. The Tillana is the south Indian musical counterpart of the north Indian tarana - rhythmic and fast in tempo.
4. In Karnataka music, there was no influence of bhakti in its development.

Which of the statements given above are correct?

- Ans
- ☒ 1. 2 and 3 only
 - ☒ 2. 1 and 2 only
 - ☒ 3. 3 and 4 only
 - ☒ 4. 1, 2 and 3

Question ID : 59445929437

Status : Not Answered

Chosen Option : --

Q.18 Who was the first chairman of ISRO?

- Ans
- ☒ 1. Udupi Ramachandra Rao
 - ☒ 2. Satish Dhawan
 - ☒ 3. Vikram Sarabhai
 - ☒ 4. M.G.K. Menon

Question ID : 59445929426

Status : Answered

Chosen Option : 1



Q.19 Which of the following institutions was formed in 1960 to assist the poor countries which could not afford to borrow capital at market rates?

- Ans
- ☐ 1. World Health Organisation
 - ☐ 2. International Chamber of Commerce
 - ☐ 3. International Business Organization
 - ☒ 4. International Development Association

Question ID : 59445929424
Status : Answered
Chosen Option : 2

Q.20 Where is the Salar Jung Museum located?

- Ans
- ☐ 1. Kanpur
 - ☒ 2. Hyderabad
 - ☐ 3. Bhopal
 - ☐ 4. Bengaluru

Question ID : 59445929422
Status : Answered
Chosen Option : 1

Section : Numerical aptitude

Q.1 If $(a + b - 1)^2 + (b + c - 9)^2 + (c + a - 4)^2 \leq 0$, then the value $\sqrt{(a + b)^c + (c + a)^b - 1}$ is:

- Ans
- ☐ 1. 9
 - ☐ 2. 6
 - ☐ 3. 7
 - ☒ 4. 8

Question ID : 59445929457
Status : Not Answered
Chosen Option : --

Q.2 A deposits an amount x at 5% per annum simple interest in a bank. His brother B deposits an amount y at 10% annual interest compounded annually. After 1 year, the interest received by B is twice the interest received by A. What is the value of y : x?

- Ans
- ☐ 1. 3 : 2
 - ☒ 2. 1 : 1
 - ☐ 3. 2 : 1
 - ☐ 4. 2 : 3

Question ID : 59445929451
Status : Answered
Chosen Option : 2

Q.3 If the value of x satisfies the equation $\frac{125 \times 4 - x \times 2}{x + 50} = \frac{200}{x}$, then the sum of all the possible values of x is?

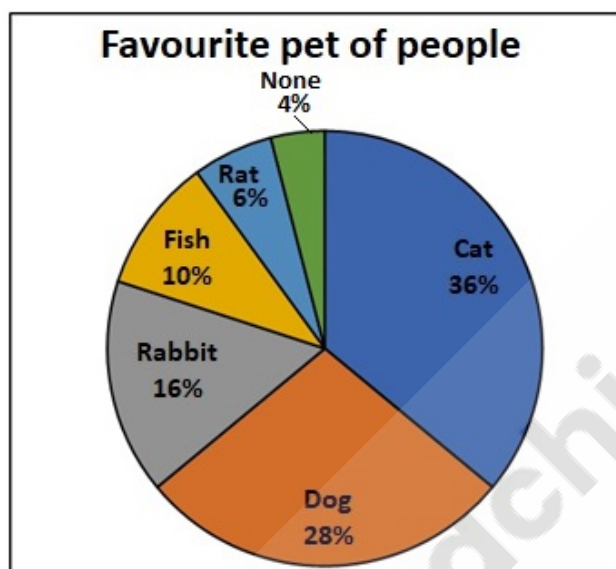
- Ans
- ✓ 1. 150
 - ✗ 2. 200
 - ✗ 3. 100
 - ✗ 4. 250

Question ID : 59445929455

Status : Answered

Chosen Option : 3

Q.4 Rama did a survey where she asked all the people in her apartment to name their favourite pet. The results are shown in the pie-chart. If 48 people said their favourite pet was a rabbit then, how many persons said that their favourite pet was a cat?



- Ans
- ✓ 1. 108
 - ✗ 2. 30
 - ✗ 3. 18
 - ✗ 4. 84

Question ID : 59445929447

Status : Answered

Chosen Option : 4

Q.5 A can finish a task in 6 days by working for 8 hours/day and B has the capacity to finish the same task in 8 days by working for 6 hours/day. In how many days will they finish it together by working 4 hours a day?

- Ans
- ✗ 1. 9 days
 - ✓ 2. 6 days
 - ✗ 3. 8 days
 - ✗ 4. 12 days

Question ID : 59445929452

Status : Answered

Chosen Option : 4



Q.6 The remainder when 731^{732} is divided by 9 is 'a'. Then the unit's place of a^{332211} is:

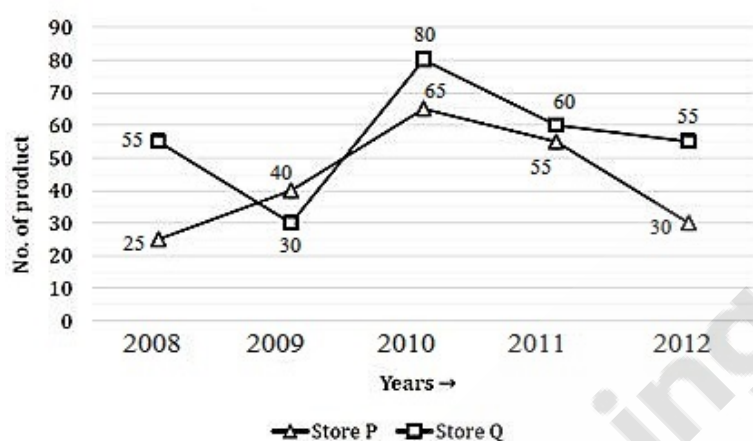
- Ans
- ☒ 1. 2
 - ☒ 2. 3
 - ☒ 3. 4
 - ☒ 4. 1

Question ID : 59445929454

Status : Not Answered

Chosen Option : --

Q.7 Line-graph given below shows the total no. of products in two different stores P & Q in five different years.



What is the difference between total number of products in store Q in year 2010 & 2011 together and total number of products in store P in year 2008 and 2012 together?

- Ans
- ☒ 1. 90
 - ☒ 2. 85
 - ☒ 3. 20
 - ☒ 4. 15

Question ID : 59445929460

Status : Answered

Chosen Option : 2

Q.8 Find the value of $\sqrt{(1 + 3 + 5 + \dots + 93) \left(1 - \frac{1}{3}\right) \left(1 - \frac{1}{4}\right) \left(1 - \frac{1}{5}\right) \dots \left(1 - \frac{1}{2209}\right)}$.

- Ans
- ☒ 1. 3
 - ☒ 2. 4
 - ☒ 3. 2
 - ☒ 4. $\sqrt{2}$

Question ID : 59445929449

Status : Not Answered

Chosen Option : --



Q.9 M can do a piece of work in 20 days. He works at it alone for 5 days and N alone finishes the remaining work in 9 days. In how many days, both of them together can complete the work ?

- Ans
- ☒ 1. 12.5 days
 - ☒ 2. 8 days
 - ☒ 3. 10 days
 - ☒ 4. 7.5 days

Question ID : 59445929441
Status : Answered
Chosen Option : 4

Q.10 If a and b are two real numbers such that $b > a$, $ab < 0$, the sum of their squares is 458 and the difference between their squares is 120, then find the value of $a - b$.

- Ans
- ☒ 1. 30
 - ☒ 2. -30
 - ☒ 3. -4
 - ☒ 4. 4

Question ID : 59445929448
Status : Answered
Chosen Option : 2

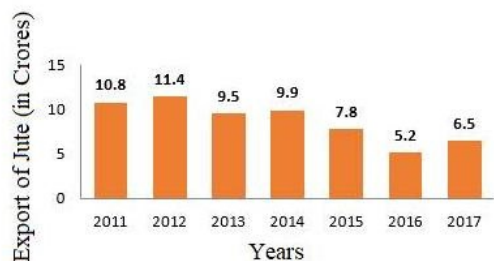
Q.11 Average of 8 students is 15 years. If two more students of age 20 and 10 years join. What will be the new average age?

- Ans
- ☒ 1. 20
 - ☒ 2. 10
 - ☒ 3. Remain same
 - ☒ 4. 25

Question ID : 59445929458
Status : Answered
Chosen Option : 3



Q.12 The given bar graph shows the export of jute by a company over the years 2011 to 2017.



Which of the following pairs of years has the maximum percentage of decrease in export?

- Ans
- ☒ 1. 2014-2015
 - ☒ 2. 2012-2013
 - ☒ 3. 2011-2012
 - ☒ 4. 2015-2016

Question ID : 59445929445

Status : Answered

Chosen Option : 4

Q.13 A regular polygon is having $4p + 2$ as the number of its sides where p is a positive integer. What will be the ratio of the measure of its interior angle to that of its exterior angle?

- Ans
- ☒ 1. $p : 2$
 - ☒ 2. $2p : 1$
 - ☒ 3. $1 : p$
 - ☒ 4. $p : 1$

Question ID : 59445929453

Status : Answered

Chosen Option : 2

Q.14 A vegetable seller had some apples. He sells 50% apples and still has 650 apples left. Originally, he had _____ apples.

- Ans
- ☒ 1. 700
 - ☒ 2. 1300
 - ☒ 3. 850
 - ☒ 4. 1200

Question ID : 59445929459

Status : Answered

Chosen Option : 2



Q.15 Sunny and Bunny together have Rs. 3450. If $\frac{2}{9}$ of Sunny's amount is equal to $\frac{7}{3}$ of Bunny's amount . How much amount does Bunny have?

- Ans
- ☒ 1. Rs. 3150
 - ☒ 2. Rs. 845
 - ☒ 3. Rs. 2340
 - ☒ 4. Rs. 300

Question ID : 59445929446

Status : Answered

Chosen Option : 1

Q.16 If $(x + a)$ is a common factor of $x^2 - (2 + \sqrt{2})x + 2\sqrt{2}$ and $x^2 - 2\sqrt{2}x + 2$, then the value of $\sqrt{(5\sqrt{2} - a)3\sqrt{2}}$ is:

- Ans
- ☒ 1. 4
 - ☒ 2. 2
 - ☒ 3. 8
 - ☒ 4. 6

Question ID : 59445929456

Status : Not Answered

Chosen Option : --

Q.17 In a lock making factory, 5 percent of the total produced locks were found defective and 80 percent of the non-defective locks were exported. If 85500 non-defective locks were not exported, then how many locks produced?

- Ans
- ☒ 1. 395000
 - ☒ 2. 475000
 - ☒ 3. 427500
 - ☒ 4. 450000

Question ID : 59445929444

Status : Not Answered

Chosen Option : --

Q.18 The speed of a plane was raised by 60% by the pilot and then the raised speed was reduced by 50%. The speed measured by the sonic radar at this point of time was 2400 km/h. Find the initial speed of the plane.

- Ans
- ☒ 1. 3000 km/h
 - ☒ 2. 2800 km/h
 - ☒ 3. 2400 km/h
 - ☒ 4. 3200 km/h

Question ID : 59445929450

Status : Answered

Chosen Option : 1



Q.19 A number is divided into two parts in the ratio of 5 : 6 respectively. The sum of 60 percent of first part and 50 percent of second part is 84. If both parts are increased by 10, then what will be the respective ratio between the sum of old numbers and new numbers?

- Ans
- ☒ 1. 71 : 87
 - ☒ 2. 73 : 87
 - ☒ 3. 77 : 87
 - ☒ 4. 75 : 87

Question ID : 59445929442

Status : Answered

Chosen Option : 3

Q.20 L.C.M. of two numbers is 15 times of their H.C.F. The product of numbers is 4860. What will be the maximum possible difference between the numbers?

- Ans
- ☒ 1. 36
 - ☒ 2. 90
 - ☒ 3. 270
 - ☒ 4. 252

Question ID : 59445929443

Status : Answered

Chosen Option : 1

Section : Reasoning Logical aptitude

Q.1 The criteria for selecting a Physics Teacher have been given as under:

The candidate must:

1. Have a masters degree in Physics with at least 60 percent marks.
2. Be a graduate in Physics with atleast 65 percent marks.
3. Be between 25 and 35 years old as on 01/01/2020.
4. Should have work experience of atleast 5 years.

The following exceptions apply:

- A. If a candidate meets all other criteria except 4 above, the candidate will be referred to the Principal.
- B. A candidate whose age is more than 35 years but less than 40 years will be referred to the Vice Principal.

Ritika has done her masters from XYZ University in Physics. She topped her batch with 80 percent marks. She did her B.Sc in Physics from ABC College. She is 39 years old. She has been teaching in MNO School for last 7 years.

What decision should be taken about this candidate?

- Ans
- ☒ 1. Data inadequate to make a decision.
 - ☒ 2. The candidate should be selected.
 - ☒ 3. The candidate should be referred to the Vice Principal.
 - ☒ 4. The candidate should be rejected.

Question ID : 59445929474

Status : Not Answered

Chosen Option : --



Q.2 Select the option in which the words shared the same relationship as that shared by the given set of words (in the same order).

Hand : Finger : Ring

- Ans ☒ 1. Face : Nose : Nose pin
☐ 2. Cap : Head : Hair
☐ 3. Ear ring : Ear : Jewel
☐ 4. Anklet : Foot : Ankle

Question ID : 59445929468
Status : Answered
Chosen Option : 1

Q.3 In the following question, select the related letters from the given alternatives.

KLMN : GIKM :: PQRS : ?

- Ans ☐ 1. FGDS
☐ 2. DFSA
☒ 3. LNPR
☐ 4. VBDS

Question ID : 59445929461
Status : Answered
Chosen Option : 3

Q.4 Select the letter triad from the given options which follows the same relation as shown below.

(LNQ, PRU, TVY)

- Ans ☐ 1. ACF, BDA, ZXU
☐ 2. DBZ, YWT, UXZ
☐ 3. CEF, ECZ, QOT
☒ 4. DFI, HJM, LNQ

Question ID : 59445929464
Status : Answered
Chosen Option : 4

Q.5 Three statements are followed by four conclusions numbered I, II, III and IV. You have to consider these statements to be true, even if they seem at variance from commonly known facts. Decide which of the given conclusions logically(s) follow from the given statements.

Statements:

1. All petrol are diesel.
2. No diesel is kerosene.
3. All fuels are kerosene.

Conclusions:

- I. Some fuels are petrol.
- II. No kerosene is petrol.
- III. No petrol is fuel.
- IV. Some kerosene are petrol.

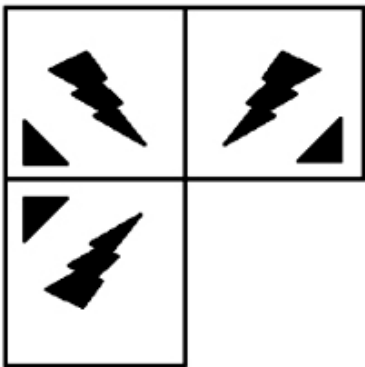
- Ans**
- ☒ 1. Only conclusions I, II and IV follow.
 - ☒ 2. Only conclusions II and III follow.
 - ☒ 3. Only conclusions I and IV follow.
 - ☒ 4. Only conclusions I and II follow.

Question ID : 59445929477
Status : Answered
Chosen Option : 2



Q.6 Select the correct option to complete the following pattern.

Questions figure:



Ans

1.
2.
3.
4.

Question ID : 59445929470
Status : Answered
Chosen Option : 3

Q.7 Arrange the given words in the sequence in which they occur in the dictionary.

1. OARIEST
2. OBELISE
3. OAFISHLY
4. OBIAS
5. OBEYER

- Ans
- ☒ 1. 3,1,2,4,5
 - ☒ 2. 3,2,1,5,4
 - ☒ 3. 3,1,2,5,4
 - ☒ 4. 3,2,4,1,5

Question ID : 59445929466

Status : Answered

Chosen Option : 3

Q.8 In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement 1 : All ships are boats.
Statement 2 : No cruise are ships.

Conclusion I : Some boats are cruise.
Conclusion II : All cruise are boats.

- Ans
- ☒ 1. Neither I nor II follows
 - ☒ 2. Both I and II follow
 - ☒ 3. Only conclusion II follows
 - ☒ 4. Only conclusion I follows

Question ID : 59445929478

Status : Answered

Chosen Option : 1

Q.9 Three statements are followed by four conclusions numbered I, II, III and IV. You have to consider these statements to be true, even if they seem at variance from commonly known facts. Decide which of the given conclusions logically follow(s) from the given statements.

Statements:

1. Some cricketers are players.
2. All players are sportsmen.
3. Some sportsmen are not cricketers.

Conclusions:

- I. Some sportsmen are cricketers.
- II. All cricketers are sportsmen.
- III. All players are cricketers.
- IV. No sportsman is a cricketer.

- Ans
- ☒ 1. Only conclusions II and III follow.
 - ☒ 2. Only conclusion IV follows.
 - ☒ 3. Only conclusion I follows.
 - ☒ 4. Only conclusions I and IV follow.

Question ID : 59445929473

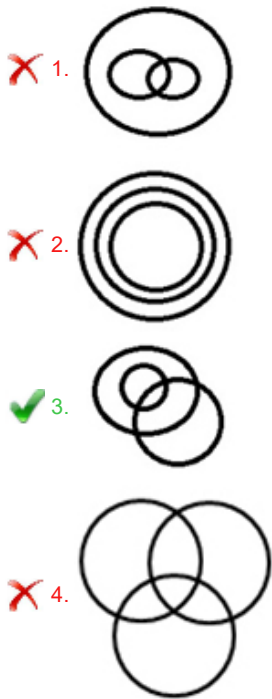
Status : Answered

Chosen Option : 3



Q.10 Identify the diagram that best represents the relationship among the given classes.

Author, Mother, Female
Ans



Question ID : 59445929469
Status : Answered
Chosen Option : 4

Q.11 Select the letter triad from the given options which follows the same relation as shown below.

(HK, EH, BE)
Ans

1. TR,WY,ZW

2. OR,LO,IL

3. PL,LJ,JH

4. KO,QM,SV

Question ID : 59445929467
Status : Answered
Chosen Option : 2

Q.12 Six friends A, B, C, D, E and F are sitting around a circle facing the centre. B is sitting second to the right of A. D is sitting second to the left of E.D is not an immediate neighbor of A. Who is sitting to the immediate right of B?

Ans

1. E

2. F

3. C

4. D

Question ID : 59445929463
Status : Answered
Chosen Option : 3

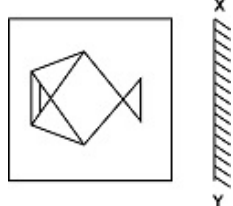
Q.13 In the following question, select the missing number from the given series.

567, 598, 635, ?, 719, 766

- Ans
- 1. 666
 - 2. 664
 - 3. 676
 - 4. 636

Question ID : 59445929476
Status : Answered
Chosen Option : 3

Q.14 If a mirror is placed on the line XY, then which of the answer figures is the mirror image of the given figure?



- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 59445929462
Status : Answered
Chosen Option : 3

Q.15 Five dancers of a dance troupe are standing on a stage facing north. Rohit is 30 m to the right of Vikas. Somya is standing 30 m to the north of Vikas. Kaizen is standing 10 m to the left of Somya. Sanjay is standing to the south of Kaizen and left of Vikas. In what direction is Kaizen standing with respect to Rohit, and what is the shortest distance between them?

- Ans
- ☒ 1. 50 m, south-east
 - ☒ 2. 30 m, north
 - ☒ 3. 50 m, north-west
 - ☒ 4. 30 m, north-west

Question ID : 59445929479

Status : Not Answered

Chosen Option : --

Q.16 'J + K' means 'J is the wife of K',
'J - K' means 'J is the father of K',
'J × K' means 'J is the daughter of K' and
'J ÷ K' means 'J is the son of K'.

If 'G ÷ N × D + M - S', then how is 'N' related to 'S'?

- Ans
- ☒ 1. Niece
 - ☒ 2. Aunt
 - ☒ 3. Brother
 - ☒ 4. Sister

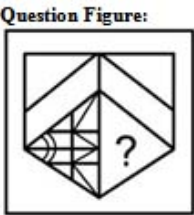
Question ID : 59445929475

Status : Answered

Chosen Option : 4

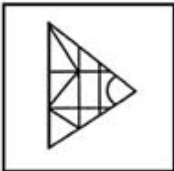


Q.17 Select the correct option to complete the following pattern.

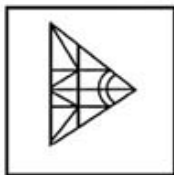


Ans

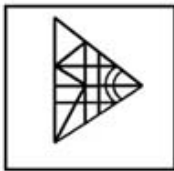
✗ 1.



✓ 2.



✗ 3.



✗ 4.



Question ID : 59445929471
Status : Answered
Chosen Option : 2

Q.18 In the following question, select the missing number from the given series.

11, 17, 23, ?, 35

Ans

✓ 1. 29

✗ 2. 31

✗ 3. 28

✗ 4. 32

Question ID : 59445929465
Status : Answered
Chosen Option : 1

Q.19 Find the wrong number in the following number series:

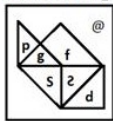
1250, 500, 200, 80, 30

- Ans
- 1. 80
 - 2. 30
 - 3. 500
 - 4. 200

Question ID : 59445929472
Status : Not Answered
Chosen Option : --

Q.20 Which of the answer figures is the exact mirror image of the given problem figure when the mirror is held at the right side?

Problem figure:



Ans

- 1.
 - 2.
 - 3.
 - 4.
-

Question ID : 59445929480
Status : Answered
Chosen Option : 1

Section : English

Q.1 In the following question, some parts of the sentence may have errors. Select the option that has the error. If the sentence has no error then select 'No Error'.

Population growth is leveling off in most areas due to rising affluence and advances to women's education and family planning.

- Ans
- ☒ 1. No Error
 - ☒ 2. women's education and family planning.
 - ☒ 3. due to rising affluence and advances to
 - ☒ 4. Population growth is leveling off in most areas

Question ID : 59445929483

Status : Answered

Chosen Option : 3

Q.2 Some parts of a sentence have been jumbled up, and labelled P, Q, R and S. Select the option that gives the correct sequence in which these parts can be rearranged to form a meaningful and grammatically correct sentence.

While I was inside

P. struggling with maths and
Q. chemistry, my father was constructing a
R. the classroom in Cambodia,
S. temporary scaffolding on

the campus grounds.

- Ans
- ☒ 1. RPQS
 - ☒ 2. PRQS
 - ☒ 3. RPSQ
 - ☒ 4. RSQP

Question ID : 59445929489

Status : Answered

Chosen Option : 1

Q.3 Improve the bracketed part of the sentence. If there is no improvement, then select 'No improvement'.

Hardly had he finished his meal (and it started) raining.

- Ans
- ☒ 1. than it started
 - ☒ 2. when it started
 - ☒ 3. and rain started
 - ☒ 4. No improvement

Question ID : 59445929491

Status : Answered

Chosen Option : 1



Q.4 Choose the word that is opposite in meaning to the given word.

Profligate

- Ans
- ☒ 1. Wasteful
 - ☐ 2. Judicious
 - ☒ 3. Prodigal
 - ☒ 4. Odious

Question ID : 59445929499
Status : Not Answered
Chosen Option : --

Q.5 Identify the segment in the sentence which contains a grammatical error.

Freedom of speech is one of a fundamental right of every citizen.

- Ans
- ☒ 1. is one of
 - ☒ 2. Freedom of speech
 - ☒ 3. of every citizen.
 - ☐ 4. a fundamental right

Question ID : 59445929481
Status : Answered
Chosen Option : 4

Q.6 Select the incorrectly spelt word.

- Ans
- ☐ 1. Precautionery
 - ☒ 2. Congratulations
 - ☒ 3. Hibernation
 - ☒ 4. Antecedent

Question ID : 59445929495
Status : Answered
Chosen Option : 1

Q.7 The sentence below has four parts (A, B, C, and D). One part has a grammatical error. Identify the part.

Snow rafting is potentially (A)/ so dangerous that (B)/ any American resort will not (C)/ touch it with a bargepole. (D)

- Ans
- ☒ 1. Snow rafting is potentially
 - ☒ 2. touch it with a bargepole.
 - ☒ 3. so dangerous that
 - ☐ 4. any American resort will not

Question ID : 59445929484
Status : Answered
Chosen Option : 1

Q.8 Rearrange the parts of the sentence in correct order.

- While infection can
P. potentially cause severe disease
Q. and can kill, timely treatment
R. with commonly available antibiotics
S. should clear the infection

- Ans
- ☒ 1. PSQR
 - ☒ 2. QRPS
 - ☒ 3. QSPR
 - ☒ 4. PQRS

Question ID : 59445929488
Status : Answered
Chosen Option : 4

Q.9 Select the most appropriate option to fill in the blank.

The National war memorial is _____ to our Armed Forces.

- Ans
- ☒ 1. consigned
 - ☒ 2. honoured
 - ☒ 3. inscribed
 - ☒ 4. dedicated

Question ID : 59445929486
Status : Answered
Chosen Option : 4

Q.10 Which of the following is correctly spelt?

- Ans
- ☒ 1. Comencemment
 - ☒ 2. Commencemant
 - ☒ 3. Commancement
 - ☒ 4. Commencement

Question ID : 59445929494
Status : Answered
Chosen Option : 4

Q.11 Arrange the jumbled sentences to make a meaningful paragraph.

- A. Yet there is also no reason to despair.
- B. None of this is true today as we fight the coronavirus pandemic.
- C. The global financial crisis in 2008-09 was a massive demand shock, but our workers could still go to work, our firms were coming off years of strong growth, our financial system was largely sound, and our government finances were healthy.
- D. Economically speaking, India is faced today with perhaps its greatest emergency since Independence.

- Ans
- ☒ 1. DCAB
 - ☒ 2. DBCA
 - ☒ 3. DABC
 - ☒ 4. DCBA

Question ID : 59445929490
Status : Answered
Chosen Option : 4

Q.12 Improve the bracketed part of the sentence. If there is no improvement, then select 'No improvement'.

It is high time that civilians (awake to) the dangers surrounding them.

- Ans
- ☒ 1. No improvement
 - ☒ 2. awakens to
 - ☒ 3. awakens on
 - ☒ 4. wake up to

Question ID : 59445929485
Status : Answered
Chosen Option : 4

Q.13 Select the most appropriate meaning of the underlined idiom in the given sentence.

We're finally at the end of the line with this project-now, we just have to hand it in and pray for a good grade.

- Ans
- ☒ 1. An incomplete work
 - ☒ 2. The final step of something
 - ☒ 3. A task that is finished
 - ☒ 4. In the middle of something

Question ID : 59445929496
Status : Answered
Chosen Option : 2

Q.14 A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative.

The four most _____ categories for public investment are shown in this table.

- Ans
- ☒ 1. wary
 - ☒ 2. intertwined
 - ☒ 3. propitious
 - ☒ 4. carved

Question ID : 59445929487
Status : Answered
Chosen Option : 3

Q.15 Which of the following is correctly spelt?

- Ans
- ☒ 1. Imperturbable
 - ☒ 2. Impertarbable
 - ☒ 3. Imparturbable
 - ☒ 4. Imperterbale

Question ID : 59445929500
Status : Answered
Chosen Option : 4

Q.16 Select the word which means the same as the group of given words.

Spoken or done without preparation.

- Ans
- ☒ 1. Uncontemporary
 - ☒ 2. Extemporary
 - ☒ 3. Temporary
 - ☒ 4. Contemporary

Question ID : 59445929498
Status : Answered
Chosen Option : 2

Q.17 Fill in the blank with the most appropriate word.

The old man wished to donate his _____ wealth for the upliftment of the downtrodden.

- Ans
- ☒ 1. elusive
 - ☒ 2. eminent
 - ☒ 3. immense
 - ☒ 4. intense

Question ID : 59445929493
Status : Answered
Chosen Option : 3

Q.18 Select the most appropriate antonym of the given word.

CULMINATION

- Ans ☒ 1. Nadir
☒ 2. Pinnacle
☒ 3. Acme
☒ 4. Top

Question ID : 59445929497
Status : Not Answered
Chosen Option : --

Q.19 Choose the word that can substitute the given sentence.

A residence for nuns

- Ans ☒ 1. Arena
☒ 2. Resort
☒ 3. Monastery
☒ 4. Convent

Question ID : 59445929492
Status : Answered
Chosen Option : 4

Q.20 Identify the segment of the sentence which contains a grammatical error.

Not a single boy in the unruly class raised their hands before answering the question.

- Ans ☒ 1. raised their hands
☒ 2. Not a single boy
☒ 3. before answering the question.
☒ 4. in the unruly class

Question ID : 59445929482
Status : Answered
Chosen Option : 1