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Section 1 - Green Thinking & Creativity

1. Which country has become the first country to double its tiger population in a decade as part of the WWF's T X 2 programme?
A. India
B. Bangladesh
C. Sri Lanka
D. Nepal

2. World Earth day is observed on _____ every year.
A. 22nd April
B. 15th April
C. 29th May
D. 8th May

3. What percentage of land area should remain covered by forest to maintain Ecological balance?
A. 58%
B. 65%
C. 33%
D. 42%

4. The Montreal Protocol is associated with
A. Climate Change
B. Preservation of indigenous traditions and communities.
C. Preventing soil erosion
D. Protecting the Ozone Layer

5. Rudolf Diesel is the inventor of biofuel. What was the first biofuel used?
A. Peanut oil
B. Bioethanol
C. Sunflower oil
D. Biogas

6. The following symbol stands for

A. Compostable materials
B. Biodegradable waste
C. Reduce, recycle and reuse
D. Renewable waste

7. Who is the present minister at Ministry of Environment, Forest and Climate Change?
A. Harsh Vardhan
B. Uma Bharati
C. Ananthkumar
D. Harsimrat Kaur Badal

8. UN Climate Summit in September 2019 will be held in
A. Paris
B. Delhi
C. Lisbon
D. New York

9. What are the reasons that lead to the loss of natural resources?
A. Deforestation
B. Overpopulation
C. Afforestation
D. Both A and B

10. Which of the following is the cleanest city of India according to Swachh Survekshan 2018?
A. Pune
B. Bhopal
C. Ghaziabad
D. Indore

11. According to the latest data analysis from the 2018 Environmental Performance Index (EPI), which of the following is the greenest country in the world?
A. Switzerland
B. Sweden
C. Germany
D. India

12. According to EPI, which of the following is the cleanest country in the world?
A. Spain
B. India
C. Portugal
D. Finland

13. Prime Minister Narendra Modi and French President Emmanuel Macron was selected for 2018 'Champions of Earth' Award for their pioneering work in championing the ISA. What does ISA stand for
A. International Solar Energy Association
B. Indo-French Solar Alliance
C. International Solar Alliance
D. Indo-French Solar Energy Agency

14. NDTV 's partner for the Greenathon is
A. HUL
B. Siemens
C. Reliance
D. Toyota

15. Which of the following is a renewable energy source?
A. Coal
B. Gasoline
C. Wind
D. Oil

16. Odd-Even Rule in Delhi was implemented to control which type of pollution
A. Vehicular pollution
B. Industrial pollution
C. Noise pollution
D. Air pollution

17. Which of the following are compostable materials?
A. Medical Waste
B. Rubber, Plastic
C. Leaves, fruits, vegetables
D. Tyres, Thermocol

18. The headquarters of Intergovernmental Panel on Climate Change (IPCC) is located at
A. Geneva
B. Delhi
C. Nice
D. New York

19. Who issues the PUC certificate to vehicles?
A. Regional Transport Office
B. Environmental Protection Agency
C. Environment Pollution Control Authority
D. Central Pollution Control Board of India

20. Afforestation will help in _____.
A. Global warming
B. Reducing air pollution
C. Increasing Soil Erosion
D. loss of biodiversity

Section 2 – Quantitative Aptitude

1. 'N' is a three digit number such that in which one of the digit used appears exactly two times. The number of different values that 'N' can take is
a) 108   b) 180   c) 232   (d) 216

2. What is the radius of the circle inscribed in an equilateral triangle ABC of side 4 cms?
a) 1/√3 cms   b) 2/√3 cms   c) 4 cms   d) 2 cms

3. If a, b, c, d, e are five consecutive odd numbers, their average is
a) abcde/5   b) a + 3   c) a + 4   d) 5(a +3)

4. A shopkeeper makes a profit of 20% by giving a discount of 20% on an article. How much percent profit/loss he will make if the discount percent gets doubled.
a) 10% profit   b) 10% loss   c) 15% profit   d) 15% loss

5. What will be the unit digit of $15^{623.}$
a) 2   b) 1   c) 5   d) 3

6. The ratio of two number is 16 : 21. If the first number is decreased by 30% and the second number is increased by 20%, what will be the respective ratio of the first and the second number?
a) 5/9   b) 4/9   c) 1/3   d) 3/1

7. $50 * \sqrt{4096} + 896 = (?)^3$
a) 12   b) 16   c) 8   d) 20

8. The cost price of two items A and B are in the ratio 3:4. These two items are sold such that a profit of 10% is registered on A and a loss of 10% is registered on B. What is the overall profit loss percentage?
a) 1% profit   b) 1% loss   c) $1\,{}^3/_7$% loss d) No profit or loss

9. Fourteen years hence ronak will be 5 times as old as he was 10 years ago. What is the current age of ronak?
a) 20   b) 22   c) 18   d) 16

10. Which of the following numbers is divisible by 3 and 5?
a) 170   b) 72   c) 168   d)135

11. How many 8 letter words can be formed using the words of letter 'MAHENDRA' such that it begin with 'E'?
a) 720   b) 5040   c) 360   d) 2520

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12. A rectangle ABCD of maximum area is inscribed in a circle with centre O. The length of the adjacent sides of the rectangle are 6 cms and 8 cms. What is the area of circle in which the rectangle is inscribed?
a) 100   b) 25   c) 25π d) 50π

13. A farmer built a fence around his square plot. He used 27 fence poles on each side of the square. The radius of each pole is 0.5m. The fence poles cover the whole perimeter and there is no gap between two adjacent fence poles. What is the area of the square plot?
a) $729\ cm^2$ b) $169\ cm^2$ c) $529\ cm^2$ d) $900\ cm^2$

14. Two lines with equation 3x + 2y = 4 and 2x - py =9 are perpendicular to each other. Find the value of p?
a) -3   b) -2   c) 2   d) 3

15. A, B and C invest in a business in the ratio 3 : 4 : 1. If A's share is Rs. 801, the total profit is
a) 3126   b) 1261   c) 2136   d) 2316

16. A two-digit number is such that the product of the digits is 18. When 27 is subtracted from the number, then the digits are reversed. The   number is:
a) 92   b) 29   c) 36   d) 63

17 In a conference we have 512 seats. In how many ways can we arrange them in rows and columns so that number of columns are always less than the number of rows.
a)5   b)10   c)4   d)8

18. HCF of two numbers is 12 and their LCM is 6 times their HCF. If one number is larger than the other number by 12, what is the product of digits of the smaller number.
a)12   b)8   c)18   d)15

19. The distance between Mumbai and Pune is 150 Kms. Ramesh travels by car from Mumbai to Pune on a certain day starting at 8 am. He travels at a uniform speed of 5 m/s. Suresh travels from Pune to Mumbai on the same day and starts from Pune at 10 am and travels at constant speed. They meet at the same point at 1 pm and continue their journey towards their destination. What is the difference in the time at which they reach their destination?
a) 60 mins   b) 70 mins   c) 80 mins   d) 90 mins

20. Ajay can complete a piece of work in 10days. He works for 4 days and then Khetan joins him and they together can complete the work in 2 days. How long can Khetan working alone can complete the piece of work?
a) 5 days   b) 4 days   c) 6 days   d) 10 days

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Section 3 – Verbal Ability

Questions 1 and 2: In each of the sentences, a part or the entire sentence is underlined. Choose the alternative from the four options, which best replaces the underlined part to make the sentence grammatically and logically correct.

1. The Centre has watered down the national bus body standards code <u>inspite</u> a commitment given to the Supreme Court
a. inspite   b. inspite of   c. despite of   d. despite for

2. If <u>you had lived in a mud hut</u> or were an Adivasi, you would get a PDS ration card
a. you had lived in a mud hut   b. you lived in a mud hut
c. you were living in a mud hut   d. you are living

Questions 3 and 4 : Complete the following sentences by choosing the correct phrase/clause from those given below each.

3. A decade ago it was routine _____ for climate change
a. to give personal responsibility   b. to have personal responsibility
c. to make for personal responsibility   d. to take personal responsibility

4. Service is a natural action _____, without the condescending approach towards helping others
a. for doing what is to be done   b. of doing what is to be done
c. of doing what are to be done   d. for doing what are to be done

Questions 5 and 6: In each of the options the following words are used in different ways. Choose the option where the usage is incorrect or inappropriate.

5. Content
a. Mr. Paulo was content studying History.
b. Raj opened the bag and emptied its contents on the floor.
c. Mother is tired doing the dishes, but she contents with doing it without anyone's help.
d. The nutritionist will analyze the nutritional content of the baby food.

6. Bolt
a. When the police arrived, Rahul made an excuse and bolted for the gate.
b. The carpenter needs a nut that will fit the bolt.
c. Bolts of silk were lying all over the cloth store
d. A bolt for lightning struck from the sky and the house was burnt to ashes.

Questions 7 and 8 : The sentences below have words that are missing. Choose the best option from those below to complete the sentence.

7. The reason for your sadness and despair is that you actually do not want to _____ your mistake, but are _____to do so.
a. accept, compelled
b. forfeit. stopped
c. renounce, hindered
d. except, curbed

8. Workplace stress adversely _____the physical and emotional well-being of the employees and consequently _____the productivity of the organization.
a. effects, inhibits
b. influences, stirs
c. affects, hampers
d. upsets,controls

Questions 9 to 11: The sentences given below, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Choose the most logical order of the sentences from the choices given.

9. 1. Growth means growth in your vision, growth in what you want to do for humanity.
2. Growth is not about mental growth or accumulation of knowledge.
3. It means expansion which is for the welfare of whole humanity and creation, expansion of consciousness and of a truthful aura that touches and transforms without any force.
4. It is not about reading books or how much you know
a. 2413
b. 4132
c. 3214
d. 1234

10. 1. The Old Masters used camera obscura to render scenes of extraordinary depth.
2. The precision of flint knives (the high technology of the Stone Age) allowed humans to sculpt the first pieces of figurative art out of mammoth ivory.
3. The history of art and the history of technology have always been intertwined.
4. In fact, artists—and whole movements—are often defined by the tools available to make the work.
a.4321
b. 2413
c. 3421
d. 1342

11. 1. Planning is a noble subject.
2. But planning has been destroyed by austerity.
3. Internationally, Britain was once feted for its planners – we came up with the garden city movement; there was a fantastic lineage.
4. We've got to make planning noble again; pay planners well; give them power.
a. 1234
b. 1324
c. 4231
d. 3124

Questions 12 and 13: Each of the paragraphs given below has a sentence missing which is indicated by a blank. From the choices given below each paragraph, choose the sentence that seems most logically appropriate to complete the given paragraph.

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12. Whenever you practice something, you give your brain the opportunity to strengthen the connections between neurons. _____. The more hikers, the more distinct the path, just like repeated practice helps lay down strong neural pathways to store memories.
a. The process of actively recalling information helps deeper learning take place.
b. You fill this gap with the things you re-create while walking along this path.
c. The strengthening process is similar to how hikers trampling through a forest create worn paths over time.
d. When combined with spacing, practicing and recalling is an efficient way to learn.

13. As with all teaching, there is an element of performance to keep the students engaged but, in India, students have an innate respect for their teachers and for the system. They understand the importance of education and their place within that system. Students are reminded often of the work that takes place in outreach projects and how lucky they are to receive education.
a. the education department ensures students learn effectively.
b. students are far from wise.
c. students have an innate respect for their teachers and for the system
d. parents play a key role in encouraging students to learn.

Question 14 to 16: In following question, a related pair of words is followed by four words. Select the word that best expresses a relationship similar to that expressed in the given word e.g. Dramaturgy – Plays

14. Painful: Agonizing: Enthusiastic: _____
a. static   b. exuberant   c. happy   d. frigid

15. Honest: Insincere: Canny: _____
a. foolish   b. careful   c. cautious   d. shrewd

16. Falcon: bird: Salamander
a. reptile   b. mammal   c. insects   d. amphibians

Direction for Questions 17 to 20: Read the following passages and answer the questions given below each.

Near the end of the nineteenth century, economist Thorstein Veblen came up with the idea of conspicuous consumption. Coincidentally (or maybe not), around this time French perfumers mastered the art of selling an inexpensively-produced product as a symbol of decadent luxury. In fact, historian Eugénie Briot points out that the marketing of scents through clever branding, rather than real differences in what's being sold, originated in nineteenth-century France.

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Industrialization transformed the perfume business in the nineteenth century. Steam engines allowed for mass production on a radically new scale. Between 1880 and 1905, one factory went from a 6-horsepower machine to a 500-horsepower alternative. Machines ground iris root, and extracted and infused scents. Factories could now dry perfumed soaps in less than a tenth of the time it had previously taken.

In the 1870s, French perfumers also quietly began swapping flowers and other organic materials out for artificial compounds. Scents created with piperonal, a synthetic chemical that happened to smell like the heliotrope flower, quickly became popular with the upper classes. But, as the cost of producing the chemical fell, "heliotrope" perfumes descended the class ladder. By the late 1890s, it was associated with disreputable members of the lower class. The price of other scent compounds, including vanillin and artificial musk, also dropped precipitously in these years. Some perfumers celebrated the newly widespread availability of perfumes. "One of the outstanding features of the social history of our time is the ascent of the humble classes toward well-being, a luxury, as we could say, until then reserved only to the privileged," one wrote.

"Today, the humblest craftsman uses perfumed soap, which he or she can obtain at infinitesimal prices."

While some perfume-makers gravitated toward a high-volume, low-price business, others developed ways to keep selling at high prices. The different perfumes were "easily interchangeable," Briot writes, so manufacturers found new ways to sell them.

It helped that in the second half of the century, perfumers also achieved a new social status. Some were knighted, and others were elected to public office. This fame allowed some of them to transform their names into brands. As competition heated up, Briot writes, "Capitalizing on their names was among the first, and best, ways to achieve dominance."

Other tactics for selling expensive perfumes to wealthy buyers included displaying them in fancy boutiques and using elaborate packaging. And in a move echoed today in "sponsored content" stories on news sites, high-end perfumers also placed ads disguised as society gossip columns in which high-society ladies praised their products. As Briot puts it, perfumers differentiated "their products by conferring a highly symbolic value on them."

17. The passage is about
a. marketing strategy employed by the French perfumers.
b. economics of the French perfumeries
c. effect of the Industrial Revolution on the French perfume industry.
d. growth of the French perfume industry

1. Look at this series: 21, 24, 30, 33, 39, 42... What number should come next?
A. 49   B.48   C. 52   D. 53

2. Look at this series: 7, 6, 10, 27, 104... What number should come next?
A. 550   B. 520   C. 515   D. 510

3. A is in the West of B which is in the South of C. If P is in the North of C, then in which direction of A, is P?
A. North East   B. North   C. South   D. South West

4. After walking 10 km in south, Ram turned to the right and then walked 6 km. After then he turned to the right and walked 10 km. In the end, he turned right and walked 2km. How far and in which direction he is from the starting point?
A. 4 km, East   B. 2 km, East   C. 4 km, West   D. 2 km, West

5. One morning after sunrise Neha and Nehal were talking to each other face to face at ladakh crossing. If Nehal's shadow was exactly to the left of Neha. Which direction Nehal was facing?
A. South   B. North   C. West   D. Cannot be Determined

6. If A is the sister of B; B is the brother of C; and C is the daughter of D, how D is related to A?
A. Mother   B. Father   C. Brother   D. Cannot be determined

Q 7-8. Study the information and answer the given questions.
In a certain code language.
'don't loose your hope' is written as 'pat rat mat fat'
'all your hope matters' is written as 'mat fat sat bat'
'loose all your negativity' is written as 'fat cat sat pat'

7. In the given code language, what does the code 'pat' stand for?
A. loose   B. matters   C. all   D. hope   E. Cannot be determined

8. What is the code for 'matters' in the given code language?
A. mat   B. fat   C. bat   D. sat   E. None of these

9. Find the missing code
DQE, FPG, HOI, ? , LMM
A. JNL   B. JMK   C. KNM   D. JNK

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Directions 10 - 11:
A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and arrangement.

Input : fire 12 87 soul solidarity 55 shine 37
Step 1: soul fire 12 87 solidarity 55 shine 37
Step 2: soul 12 fire 87 solidarity 55 shine 37
Step 3: soul 12 solidarity fire 87 55 shine 37
Step 4: soul 12 solidarity 37 fire 87 55 shine
Step 5: soul 12 solidarity 37 shine fire 87 55
Step 6: soul 12 solidarity 37 shine 55 fire 87
The above step is the final step for the given input.

The new Input is: 35 andrew zoo 78 63 andy bench 97

10. What will be the 3ʳᵈ step for the given sequence?
A. zoo 35 bench 63 andy 78 andrew 97
B. zoo 35 bench 63 andrew 78 andy 97
C. 35 bench 63 andrew 78 andy 97 zoo
D. zoo 35 63 bench andrew 78 andy 97

11. Which of the following will be the final step for the given input?
A. Step 4   B. Step 3   C. Step 5   D. Step 6

12. In the given numbers if the digit in the units place is removed, which of the following numbers will be minimum?
A. 619   B.583   C. 527   D. 426   E. 870

Direction 13: Answer the following questions based on these conditions:
Aman, Shubham, Rahul, Raj and Rohit are sitting in a straight line.
Aman sits between Shubham and Rahul.
Raj does not sit in the middle and is to the immediate left of Rohit.
Shubham and Rohit occupy the extreme positions.

13. Find the position of Raj with reference to Rahul.
 A. Immediate Left   B. Second Left   C. Third Left D. Immediate Right   D. None of the above

14. In a row of boys, If Arjun who is 11th from the left and Brijesh who is 8th from the right interchange their positions, Arjun becomes 16th from the left. How many boys are there in the row?
 A. 24   B. 22   C. 23   D. 25   E. None of these

Direction 15: These questions are based on the following arrangement of letter, number and symbol.

A 7 4 A G H K # 5 Q S % 2 3 D F & R N 6 B E 8 @ I $ W U

15. How many such consonants are there in the above arrangement each of which immediately preceded by a numerical?
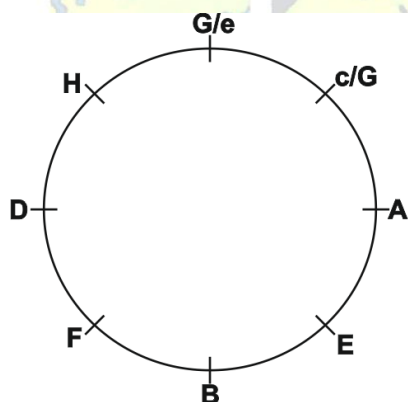A. None   B. One   C. Two   D. Three   E. More than three

Direction 16-17.
In a circle, C is not sitting next to D. E and H are sitting opposite each other, H is not sitting next to B or A. D is sitting opposite to A and next to F. A is two places to the right of B.
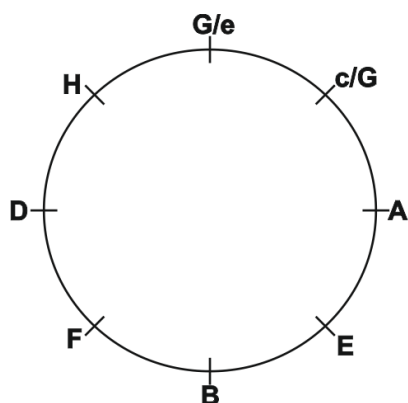
16. By counting anticlockwise, how many people are seated between E and D?
(a) 0   (b) 2   (c) 3   (d) None of these

17. How many arrangements are possible for the above puzzle?
(a) 1   (b) 2   (c) 3   (d) 4

18. Richa told Sophia, "The girl I met yesterday at the play was the youngest sister of the brother-in-law of my friend's mother." How is the girl related to Richa's friend?
A. Cousin   B. Daughter   C. Niece   D. Friend   E. Aunt

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Direction 19: Read the following information and answer the question that follow:
In a contest there are six persons Adi,Bella, Costa ,Doug, Ellie and Fido each have different weight. They are ranked according to their weights with the heaviest having rank 1 and lightest as rank 6. Costa is heavier than only Adi. Doug is heavier than 3 persons, Ellie is lighter than Fido. The person in second place weighs 74 kg and last place weighs 41 kg. Ellie does not weigh 74kg. Bella is not the heaviest.

19. After arranging the person in ascending order of their weight find the person who comes immediately after Ellie.
A. Bella   B. Doug   C. Costa   D. Fido   E. None of these

Direction 20-21: Read the following information and answer the questions that follow:
Seven friends are staying in a seven floor building, each on one of the floors. Clair lives in the topmost floor. Gibson stays between Clair and Freida. There is exactly one person between Burt and Alex. There are exactly two people between Freida and Domnique. Alex and Elisa live on adjacent floors.

20. Who lives in the 6th floor ?
A. Gibson   B. Elisa   C.Freida   D. Alex

21. Who lives in the 3rd floor ?
A. Gibson   B. Elisa   C. Freida   D. Alex

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Section 5 – General Knowledge

1. The Lion Capital at Sarnath is associated with which king?
A. Krishnadevaraya
B. Ashoka
C. Chandragupta Maurya
D. Prithviraj Chauhan

2. Which of the following is the famous dance form of Uttar Pradesh?
A. Sattriya
B. Bharatnatyam
C. Kathakali
D. Kathak

3. Meenakshi Amman is situated in which Indian city?
A. Tamil Nadu
B. Telangana
C. Karnataka
D. Andra Pradesh

4. Which of the following paintings originated in Bihar?
A. Kalamkari
B. Warli
C. Mandana
D. Madhubani

5. Who among the following was the recipient of the Rajiv Gandhi Khel Ratna award in 2018?
A. Virat Kohli
B. Manpreet Singh
C. Sanjay Garnaik
D. Neeraj Chopra

6. The book 'Wings of Fire' was written by
A. A. P. J. Abdul Kalam
B. Arundhati Roy
C. Vikram Seth
D. Anita Desai

7. Who succeeded Pratibha Patil as the President of India?
A. A. P. J Kalam
B. Shankar Dayal Sharma
C. Ram Nath Kovind
D. Pranab Mukherjee

8. If one wishes to visit 'Vijay Stambha', one should visit the city of
A. Hyderabad
B. Agra
C. Madras
D. Chittorgarh

9. Meghan Markle, American television film and actress is married to?
A. Prince Harry
B. Prince William
C. Prince Charles
D. Prince Edward

10. Who was known as Iron man of India?
A. Mahatma Gandi
B. Govind Ballabh Pant
C. Sardar Vallabhbhai Patel
D. Subhash Chandra Bose

11. Raipur is the capital of _____.
A. Jharkhand
B. Tripura
C. Chhattisgarh
D. Uttarakhand

12. Union Ministry of Road Transport and Highways has appointed _____ as brand ambassador for its Road Safety campaigns.
A. M. S. Dhoni
B. John Abraham
C. Vidya Balan
D. Akshay Kumar

13. "Dil Toh Roaming Hai" is the tagline of
A. Goibibo
B. MakeMyTrip
C. Trivago.in
D. Clear Trip

14. World Human Rights Day is observed on
A. April 15
B. December 10
C. December 7
D. October 9

15. Which city is known as 'Electronic City of India'?
A. Hyderabad
B. Ahmedabad
C. Chennai
D. Bangalore

16. Who among the following have been signed as ambassadors of Skill India Campaign?
[A] Ranvir Singh and Deepika Padukone
[B] Akshay Kumar and Bhumi Pednekar
[C] Varun Dhawan and Anushka Sharma
[D] Amitabh Bachchan and Priyanka Chopra

17. Who became first Indian woman wrestler to bag gold at the 18th Asian Games 2018?
[A] Vinesh Phogat
[B] Sakshi Malik
[C] Pooja Dhanda
[D] Priyanka Phogat

18. Who was the longest serving Prime Minister of India?
A. Lal Bahadur Shastri
B. Jawaharlal Nehru
C. Indira Gandhi
D. Dr. Manmohan Singh

19. Who is the 24th Governor of the Reserve Bank of India?
A. Urjit Patel
B. Raghuram Rajan
C. Y. V. Reddy
D. C. Rangarajan

20. Who has been elected as the Prime Minister of Pakistan in August 2018?
A. Mamnoon Hussain
B. Wasim Akram
C. Imran Khan
D. Waqar Younis