

# IBPS RRB Officer Scale-1 Mains 2019 Previous Year Question



**Direction (1 – 2) :** In the question below are given four statements followed by three conclusions numbered I, II and III. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**1. Statements:**

Only a few Stupid are Crazy.  
No Crazy are Smart.  
All Smart are Beautiful.  
Only a few Beautiful are Handsome.

**Conclusions:**

- I. Some Stupid are not Smart.  
II. No Smart are Handsome.  
III. All Handsome being Stupid is a possibility.  
A. Only I follows  
B. Only II follows  
C. Only III follows  
D. Both II and III follow  
E. Both I and III follow

**2. Statements:**

No Perfumes are Deodorants.  
Only a few Deodorants are Moisturizers.  
All Moisturizers are Cold Creams.  
Only a few Cold Creams are Sunscreen.

**Conclusions:**

- I. Some Deodorants are Sunscreen.  
II. All Perfumes being Sunscreen is a possibility.  
III. No Moisturizers are Perfumes.  
A. Only I follows  
B. Only II follows  
C. Only III follows  
D. Both II and III follow  
E. None follows

**Direction:** Study the following data carefully and answer the questions accordingly.

A certain number of people are sitting in a straight line facing the south direction. Seven people sit between M and Z. Five people sit between Z and P. More than two people sit between T and S. Q sits fifth from an end. At most two people sit to the left of P. Three people sit between

S and P, who is not an immediate neighbor of Q. Four people sit between S and Q. T sits second to the right of Q.

3. How many people sit to the left of S?

- A. Five  
B. Six  
C. One  
D. Four  
E. None of these

4. What is the position of M?

- A. Fifth to the left of S  
B. Second from the right end  
C. At one of the end  
D. Third to the left of P  
E. None of these

**Direction:** A word and number arrangement machine, when given an input line of words and numbers, rearranges it in every step following a certain rule. Following is an illustration of an input line of words & numbers and various steps of rearrangement.

**Input:** Cloudy Amazing August English Under

**Step 1:** Amazing English Under August Cloudy

**Step 2:** English Amazing Cloudy August Under

**Step 3:** Clntdy dnglsh tndr zmzzhng ztgtst

**Step 4:** 56 24 76 66 92

And step IV is the last step for this input. Now, find out appropriate answers in the following questions following the above rules.

**Input:** Promotion After Immediately Riverdale Fantastic

5. How many numbers are divisible by 11 in the last step of the given input?

- A. None  
B. Two  
C. Three  
D. One  
E. None of these

6. In step 2, which of the following words would be at the 4<sup>th</sup> position from the right end?

- A. Fantastic  
B. Immediately

- C. Promotion  
D. After  
E. Riverdale

**Direction:** Study the following data carefully and answer the questions accordingly.

"Almost result for decide" is coded as "VF#9 IH@26 GT#38 GC#21"

"its total now stopped" is coded as "WU@23 DP@37 OV@32 HK@28 "

"projection for better furniture" is coded as "MR#30 IH@24 ID#20 VH@11"

"trust again this information" is coded as " MK@23 HV#39 GV@40 MC@15"

7. What is the code for 'tickets booking'?
- A. RH#32, JK#9  
B. JH@36, DR@5  
C. HV@39, TD@9  
D. VH#32, ER#22  
E. None of these

**Direction (8 – 12) :** Read the following information carefully to answer the questions based on it.

Nine persons A, B, C, D, E, F, G, H and J are sitting in a straight line facing the north, not necessarily in the same order. Each one of them likes a different color viz. Pink, Yellow, Green, Blue, Red, Black, Brown, White and Violet, not necessarily in the same order.

Note: The leftmost place from the left end is positioned 1 (Vice-versa) and so on.

H sits on an even position from the left end and the one who likes blue sits on the leftmost place. Two persons sit between G and E. D who likes green sits on the 2<sup>nd</sup> position from the right end. The one, who likes yellow, sits just to the left of the one who likes white. C doesn't like yellow. The one who likes pink sits exactly between the one who likes brown and the one who likes red, but not on the 5<sup>th</sup> position from the left end. J likes violet. G sits on the 3<sup>rd</sup> position from the left end. B sits on an even position from the left end and A sits on an odd position from the left end but not on the leftmost position. The one who likes brown sits on the 4<sup>th</sup> position from the left end but B doesn't like brown. A does not sit on the 5<sup>th</sup> position from the

left end. The one who likes black does not sit at the rightmost position. The one who likes white sits on the 6<sup>th</sup> position from the left end.

8. Who among the following sits on the leftmost position?

- A. F  
B. C  
C. E  
D. J  
E. None of these

9. A UK court has issued an arrest warrant against fugitive diamond jeweller Nirav Modi, taking cognizance of the sanction granted by the UK home secretary on India's request to extradite the jeweller. According to procedure, Modi will be formally arrested and is likely to be enlarged on bail. The London Police is likely to arrest him and produce him before a London Court, said sources privy to the development.

Which of the following can be logically inferred from the above information?

A. The UK home office told the Indian authorities that India's request to extradite Modi had been certified. The Indian agencies are now awaiting Modi's formal arrest.

B. None can be inferred.

C. Modi was spotted in London's West End earlier this month by Britain's The Telegraph newspaper, which reported that he's running a new diamond business in the city. India is also pursuing extradition proceedings against Modi's uncle and co-accused Mehul Choksi, currently in Antigua.

D. The Indian agencies have told the British authorities that Modi had travelled outside the UK on despite his passport having been revoked. This was despite repeated reminders sent to the British authorities.

E. All can be inferred.

10. Consider the following statements related to piezoelectric effect:

1) It gives electrical response in terms of voltage change when mechanical stress occurs in some materials

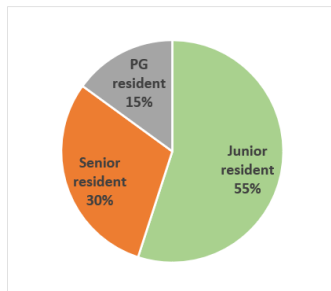
2) It gives mechanical response in terms of dimensional change due to electrical excitation of some materials  
Which of the above statements is/are correct?

- A. 1 only
- B. 2 only
- C. Neither 1 nor 2
- D. Both 1 and 2

**Direction (11 – 15) :** Refer to the graphs and answer the following questions.

There are only three categories of Doctors – Junior Resident Doctor, Senior Resident Doctor and PG Resident Doctor in health care department of a city.

In the pie – chart, percentage distribution of the three categories of doctors is given. Total number of doctors = 120



In the table given below, the number of patients treated by the different doctors on a particular day is given.

	Total number of patients treated	Ratio of number of male and female patients treated
No. of patients treated by Junior resident doctors	9240	3 : 5
No. of patients treated by Senior resident doctors	3150	4 : 3
No. of patients treated by PG resident doctors	810	2 : 7

11. Half the PG resident doctors treat male patients and the rest treat female patients. Each of the doctors treating male patients treat the equal number of male patients, similarly each of the doctors treating female patients treating the equal number of female patients, then find the difference between the number of male patients treated and the number of female patients treated by a PG resident doctor.

- A. 90
- B. 50
- C. 70
- D. 40

E. 35

12. What is the average number of patients treated by a doctor in the city?

- A. 125
- B. 150
- C. 110
- D. 165
- E. 120

13. A and B together start a business by investing in the ratio of 3 : 4. After 4 months , C also joins them with contribution of \_\_\_\_% more than that of A. After 9 months B withdraws his contribution. At the end of 2<sup>nd</sup> year, the difference between the profits earned by B and C is \_\_\_\_ times the difference between the profits earned by C and A. Which of the following option can fill in the blanks?

- A. 60% & 1/2
- B. 50% & 3
- C. 30% & 2
- D. 80% & 3
- E. None of these

14. Speed of boat in upstream is 54km/h and the speed of boat in still water is 300% more than speed of boat in upstream, find the time taken by the boat to cover 945 meters downstream (in seconds)?

- A. 8 sec
- B. 10 sec
- C. 12 sec
- D. 9 sec
- E. 5 sec

15. Two friends, A and B are standing at points P and Q, respectively. If A starts moving towards point Q from point P with speed of  $(x - 5)$  km/hr. After 2 hours, B starts moving towards point P from point Q with speed  $(x + 5)$  km/hr, and they meet at the midpoint of P and Q. Find the time taken by A to go from point P to point Q, if the distance between point P and point Q is 480 km.

- A. 20 hours
- B. 16 hours
- C. 12 hours
- D. 15 hours

E. None of these

**Direction:** Refer to the data and answer the following questions:

A bus started the journey from a bus stop to a destination with some passengers. There are a total of 4 stops in the bus journey. The ratio of the number of male passengers and female passengers traveling in the bus is 4 : 5 and the difference between the number of male and female passengers in the bus is 15

**At the first stop** - Number of male passengers got down is 30% more than number of female passengers got down from the bus. 30 male and A number of female passengers boarded the bus. Now the total number of male in the bus is 64

**On second stop** - 9 male and B number of female passengers got down the bus. 35 male and 20 female passengers boarded the bus and the and thus now the ratio the number of male and female passengers in the bus is 6 : 5

**On third stop** - 28 male and 21 female passengers got down from the bus and the total C passengers boarded the bus and the and now the total number of male passengers in the bus is 80 and the number of female passengers is one-fourth less than the number of male passengers.

**On fourth stop** - D number of male passengers and 15 female passengers got down from the bus. No male passengers and 30 female passengers boarded the bus and now the percentage of female out of the total passengers is 60%.

On destination- All passengers got down from the bus.

16. If  $A = 16$ , then what will be the value of  $2B$ ?

- A. 8
- B. 16
- C. 32
- D. 64
- E. Cannot be determined

**Direction:** Given below are two quantities named I and II. Based on the given information, you have to determine the relation between the two quantities.

You should use the given data and your knowledge of Mathematics to choose among the possible answers.

17. A basket contains 6 White, 4 Black, 2 Pink and 3 Green balls. If four balls are picked at random.

**Quantity I:** Probability that at least one is Black.

**Quantity II:** Probability that all is white.

- A. Quantity I > Quantity II
- B. Quantity I < Quantity II
- C. Quantity I  $\geq$  Quantity II
- D. Quantity I  $\leq$  Quantity II
- E. Quantity I = Quantity II or No relation

**Direction:** Given below are two quantities named I and II. Based on the given information, you have to determine the relation between the two quantities. You should use the given data and your knowledge of Mathematics to choose among the possible answers.

18. **Quantity 1:** Present age of Father. Father's age is 4 times that of his son. 4 years back, it was 7 times.

**Quantity 2:** Present age of man. Thirteen years hence, a man will be three times as old as he was Thirteen years ago.

- A. Quantity I > Quantity II
- B. Quantity I < Quantity II
- C. Quantity I  $\geq$  Quantity II
- D. Quantity I  $\leq$  Quantity II
- E. Quantity I = Quantity II or No relation

**Direction:** Given below are two quantities named I and II. Based on the given information, you have to determine the relation between the two quantities. You should use the given data and your knowledge of Mathematics to choose among the possible answers.

19. **Quantity I:** Speed of the train A. if the length of train and a platform are 132m and 183 m respectively and train takes 9 second to cross the platform.

**Quantity II:** Speed of train B. if it travels 300 km in 3 hr 30 min.

- A. Quantity I > Quantity II
- B. Quantity I < Quantity II
- C. Quantity I  $\geq$  Quantity II
- D. Quantity I  $\leq$  Quantity II
- E. Quantity I = Quantity II or No relation



**Direction:** Refer to the both pie-charts and answer the following questions.

The following table shows the total amount (in tons) of waste (wet and dry) collected, the ratio of the amount of wet and dry waste and percentage of the that waste which is recycled by a municipal corporation on given 5 days - Monday, Tuesday, Wednesday, Thursday and Friday.

Days	Total amount (in tons) of waste (wet and dry) collected	Ratio of amount of wet and dry waste collected	% of total wet waste recycled	% of total dry waste recycled
Monday	700	3 : 2	—	25%
Tuesday	1200	—	32%	44%
Wednesday	840	4 : 3	22.5%	—
Thursday	900	2 : 7	18%	—
Friday	1600	—	17.5%	32.5%

Few data are missing in the table, which is indicated by (—). You need to calculate the missing value if required to answer the question.

20. If the ratio of the amount of wet and dry waste not recycled on Monday was 6 : 5, then what is the ratio of percentage of the total wet waste not recycled on Thursday and the percentage of the total wet waste not recycled on Monday?

- A. 41 : 40
- B. 2 : 1
- C. 41 : 10
- D. 41 : 30
- E. None of these

**Direction (21 – 23) :** Read the given passage carefully and answer the questions that follow. Certain words are printed in bold to help you locate them while answering some of these.

Which stereotype about millennials are you inclined to believe? Do you think they're self-entitled, on the verge of lazy, and unwilling to work hard to get what they want? Or do you believe they're all screwed over by poor economic growth, student debt, and **misplaced** priorities, working hard but never able to dig their way out of that hole?

According to a Vacation Confidence Index, 25 percent of millennials felt nervous when requesting time off from their employers, compared to just 14 percent of Gen Xers, and only 6 percent of baby boomers aged 55 and up. Feelings of shame, guilt, or even fear

were common. In line with these feelings, as much as 48 percent of millennials aren't using the full amount of paid time-off they receive each year, and about half of Americans (53 percent) haven't taken a vacation in the past year.

There are a few motivating factors here, including millennials' younger ages, which naturally leave them in lower positions within organizations. Lower positions tend to have less autonomy, and less control over when and how they take breaks. However, the biggest factor appears to be the shame of requesting time off, which is directly intertwined with the culture of overwork that has developed in this country over the past several years.

In the United States, a cultural emphasis is places on the value of earning your own money and building your own wealth, and popularize the "American Dream"—the idea that through hard work, anyone can achieve anything. In line with this philosophy, many workplaces encourage the employees who appear to be working the hardest. The ones who never take breaks, come in early, or stay late are seen to be "go-getters" and work horses. They're seen to be more valuable, since they're making more sacrifices for the company, and more indispensable, since they would be harder to replace. On the surface, this seems like a fair assessment, but it leads to conditions in which workers feel pressured to work overtime and skip breaks to meet expectations or remain competitive.

In reality, all of those long hours usually lead to burnout, **(A)**. Spending another hour at work may not seem like a big deal, but once you start sacrificing the hours of sleep, relaxation, and enjoyment you need, your health can start to decline, and every hour you spend on the job gradually becomes less valuable. According to a study by the Society for Human Resource Management (SHRM), employees who take most or all of their vacation time are almost universally more productive, higher-performing, and more satisfied than their vacation-skipping counterparts. Taking a

vacation, and truly enjoying yourself at a **luxurious** destination, is an investment in yourself. You'll come back happier, more productive, and better performing than your counterparts, and you'll become more valuable to your employers as a result.

Source:

<https://www.forbes.com/sites/larryalton/2017/12/29/why-millennials-are-taking-fewer-vacations-and-why-they-should-take-more/#65ec629e2b6c>

21. Which of the following statement (s) can be inferred from the information provided in the passage?

I. Vacations and time to detach from work are important in enabling one to sustain performance, productivity, creativity and prevent burnout.

II. For a millennial, asking for a day off could seem like a huge task, when the stakes feel higher to perform professionally and taking a break doesn't seem like a priority.

III. Travelling can improve your cultural awareness, and if you travel with family, friends, or a significant other, it can help you generate positive feelings toward the people in your life you are vacationing with.

A. Only I & III

B. Only II & III

C. Only I & II

D. All I, II & III

E. None of the above

22. Which of the following category of people the author is trying to refer when he mentions 'go-getters'?

A. Those who cover up their weaknesses by working round the clock and delivering results.

B. Those who don't work much but are pretty good at displaying the amount of work delivered by them.

C. Those who are ambitious and eagerly go after what they desire by working hard for it.

D. Those who surprise others from time to time with their jovial behaviour.

E. None of the above.

23. Which of the following statement (s) is/are TRUE with reference to the context provided in the passage?

I. Approximately half of the Americans do not use the full amount of paid time-off they receive each year due to feelings of shame, guilt, and even fear.

II. The "American Dream" stresses the idea that through hard work and the right connections, anyone can achieve anything.

III. Contrary to popular belief, in the absence of time-offs or vacations, every hour you spend on the job gradually becomes less valuable.

A. Only I & II

B. Only I & III

C. Only II & III

D. All I, II & III

E. None of the above

**Direction (24 – 25) :** Given below are six statements A, B, C, D, E and F, which when arranged in the correct order, form a coherent and meaningful paragraph. The sentence marked D is fixed and would fit in the fourth position. Rearrange the other statements in a proper sequence to form a meaningful paragraph, then answer the questions that follow.

A) While an inquiry is being conducted, it is suspected that the deaths may have occurred due to infighting and disease according to the reports.

B) If we don't check our misuse of natural resources more and more such appalling news will keep surfacing from time to time.

C) Earlier this week, Gujarat's treasured wildlife reserve suffered a shocking jolt in the form of mass lion deaths.

D) While some have presumably died in infights, others, including three lion cubs, are suspected to have contracted a fatal illness.

E) Infighting in the wild mostly occurs when natural resources are scarce and animals encroach upon each other's territory for basic necessities.

F) 11 lion carcasses were reportedly found in the East division of Gir forest and the deaths have presumably taken place

within 10 days as stated by east Gir's Deputy Conservator of Forest, P Purushothama.

24. Which of the following will be the first statement after rearrangement?

- A. A
- B. B
- C. C
- D. E
- E. F

25. Which of the following will be the second statement after rearrangement?

- A. A
- B. B
- C. C
- D. E
- E. F

**Direction:** Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.

26. The company will continue its growth (1)/ journey with the multi-retail channel approach (2)/ along about e-commerce platform to reach out (3)/ to as many customers as it can. (4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. No error

**Direction:** Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.

27. 34 million years before, (1)/ the warm 'greenhouse climate' (2)/ of the dinosaur age ended (3)/ and the colder 'icehouse climate' of today commenced. (4)

- A. 1
- B. 2

- C. 3
- D. 4
- E. No error

**Direction:** Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.

28. Trump and his aides have made the up-to-now strong economy (1)/ a key theme in his re-election effort (2)/, and they are doing all they can (3)/ to blame others for any economic problems. (4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. No error

**Direction:** In this question, two columns I and II and three sentences are given, which are divided into two parts. **Column I (A, B and C)** consists of first half of each sentence and **Column II (D, E and F)** consists of second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct. Choose the option as your answer.

29. I.

A) The chilly temperatures in our offices are not just

B) When employers improved the lunches being served to

C) According to the survey, the female students turned out to answer more questions when the

II.

D) been ordered to wear kurtis below knee length with sleeves.

E) making all the women shiver, but is also lowering their productivity.

F) temperature was warmer as opposed to when the temperature was colder.

- A. B-E and C-F
- B. A-E, B-F and C-D
- C. A-F and C-D
- D. B-F



E. A-E and C-F

**Direction:** In this question, two columns I and II and three sentences are given, which are divided into two parts. **Column I (A, B and C)** consists of first half of each sentence and **Column II (D, E and F)** consists of second half of each sentence. Match column I with column II, so that the sentences formed are both meaningful and grammatically correct. Choose the option as your answer.

30. I.

- A) Lion populations have declined by 43 per cent due to  
B) Central populations of African lion are more genetically related to  
C) Coupled with inadequate financial and other resources for countries to  
II.  
D) effectively manage protected areas, the impact on lions in the wild has been substantial.  
E) the western and central populations of African lion are more genetically related to the Asiatic lion.  
F) habitat loss, loss of prey base and retaliatory killing of lions by a growing human population.  
A. B-E and C-F  
B. A-E, B-F and C-D  
C. A-F and C-D  
D. B-F  
E. A-E and C-F

**Direction:** In the following question, a word is given, which has been used in the three statements given below it. Identify the statement(s) in which the word fits contextually to convey a logical meaning.

31. **Hatch**

- 1) The detective **hatched** a plot to catch the man cheating against his wife.  
2) The farmer **hatched** the eggs of the birds he had been feeding for several months.  
3) The employee **hatched** the door carefully before leaving the cabin.  
A. Only 1  
B. Only 2  
C. Both 1 and 2  
D. Both 1 and 3

E. All 1, 2 and 3

32. Bridge works in which layer of the OSI model?

- A. Transport layer  
B. Application layer  
C. Data link layer  
D. Network layer  
E. None of these

33. What is the base of hexadecimal number system?

- A. 2  
B. 8  
C. 16  
D. 10  
E. None of these

34. What is the full form of SIM?

- A. Station Identity Module  
B. System Identity Module  
C. Subscriber Identity Module  
D. Subscriber Trunk Dialling  
E. None of these

35. A repair for a known software bug, usually available at no charge on the internet, is called a(n) \_\_\_\_\_.

- A. version  
B. patch  
C. tutorial  
D. FAQ  
E. None of these

36. How many KB is equal to 1 GB?

- A. 1024  
B.  $256 \times 1024$   
C.  $1024 \times 1024$   
D.  $1024 \times 1024 \times 128$   
E. None of these

37. In case of MS-access, the rows of table corresponds to \_\_\_\_\_.

- A. Field  
B. Records  
C. Reports  
D. Files  
E. None of these

38. A(n) \_\_\_\_\_ is a small group of computers and peripherals linked together in a small geographic area.

- A. MAN

- B. PAN
- C. CAN
- D. LAN
- E. None of these

39. Kernel is a central component of \_\_\_\_\_.

- A. A part of CPU
- B. An operating system
- C. A hardware
- D. A register
- E. None of these

40. Word processing spreadsheet and photo-editing are examples of \_\_\_\_\_.

- A. application software.
- B. system software.
- C. operating system software.
- D. platform software.
- E. None of these

**निर्देश (41 – 50) :** निम्नलिखित गद्यांश को सावधानीपूर्वक अध्ययन कीजिये तथा प्रश्नों के उत्तर दीजिये।

जलवायु परिवर्तन विश्व की सबसे ज्वलंत पर्यावरणीय समस्याओं में से एक हैं। नवम्बर-दिसम्बर मध्य तक ठण्ड का अहसास नहीं होना, फरवरी - मार्च तक सर्दी पड़ना, अगस्त- सितम्बर से वर्षा होना तथा अक्टूबर - नवम्बर माह तक गर्मी पड़ना, तापक्रम ज्यादा होना, ये सब कुछ मौसम में होने वाले बदलाव के कारण होता है। मौसम, किसी भी स्थान की औसत जलवायु होती है जिसे कुछ समयावधि के लिए वहां अनुभव किया जाता है। इस मौसम को तय करने वाले मानकों में वर्षा, सूर्य, प्रकाश, हवा, नमी व तापमान प्रमुख हैं। मौसम में बदलाव काफी जल्दी होता है लेकिन जलवायु में बदलाव आने में काफी समय लगता है। और इसलिए ये कम दिखाई देते हैं।

इस समय पृथ्वी के जलवायु में परिवर्तन हो रहा है , कोई नहीं जानता की गर्मी की कितनी मात्रा सुरक्षित है। पर हमें यह जरूर पता है की जलवायु परिवर्तन लोगों एवं पारिस्थितिकी तंत्र को पहले से ही नुकसान पहुंचा रहा है। इसकी सच्चाई ग्लेशियरों के पिघलने, ध्रुवीय बर्फ में खंडित होने, परिहिमानी क्षेत्र के

विगलन, मानसून के तरीकों में परिवर्तन, समुद्र के बढ़ते जलस्तर, बदलते पारिस्थितिक तंत्र एवं घातक गर्म तरंगों में देखी जा सकती हैं। इस परिवर्तन के लिये एक प्रकार से प्राकृतिक गतिविधियां तथा मानवीय क्रिया- कलाप ही जिम्मेदार हैं।

जलवायु परिवर्तन के कारणों को दो भागों में बांटा जा सकता है- 1. प्राकृतिक कारण व 2. मानवीय कारण।

प्राकृतिक कारण जलवायु परिवर्तन के लिये अनेक प्राकृतिक कारण जिम्मेदार हैं। इनमें से प्रमुख हैं - महाद्वीपों का खिसकना, ज्वालामुखी, समुद्री तरंगें और धरती का घुमाव।

मानवीय कारण- पृथ्वी द्वारा सूर्य से ऊर्जा ग्रहण की जाती है जिसके चलते धरती की सतह गर्म हो जाती है। जब ये ऊर्जा वातावरण से होकर गुजरती है, तो कुछ मात्रा में , लगभग 30 प्रतिशत ऊर्जा वातावरण में ही रह जाती है। इस ऊर्जा का कुछ भाग धरती की सतह तथा समुद्र के जरिये परावर्तित होकर पुनः वातावरण में चला जाता है। वातावरण की कुछ गैसों द्वारा पूरी पृथ्वी पर एक परत सी बना ली जाती है वे इस ऊर्जा का कुछ भाग भी सोख लेते हैं। इन गैसों में शामिल होती है कार्बन डाइऑक्साइड, मिथेन, नाइट्रस ऑक्साइड व जल कण, जो वातावरण के 1 प्रतिशत से भी कम भाग में होती है। इन गैसों को ग्रीन हाउस गैसें भी कहते हैं। औद्योगिक कारणों से निकालने वाली गैसें क्लोरोफ्लोरोकार्बन, ऑटोमोबाइल से निकलने वाले धुंए के कारण ओजोन परत के निर्माण में बाधा उत्पन्न करते हैं जिसके कारण ग्रीन हाउस गैसों में असंतुलन उत्पन्न हो रहा जो वातावरण में ताप मान वृद्धि का प्रमुख कारण है।

41. मौसम को तय करने वाले मानकों में कौन-से मानक प्रमुख होते हैं?

- A. महाद्वीपों का खिसकना, ज्वालामुखी, समुद्री तरंगें और धरती का घुमाव
- B. समुद्री तरंगें और धरती का घुमाव, नमी व तापमान
- C. वर्षा, सूर्य, प्रकाश, हवा, नमी व तापमान

D. कार्बन डाइऑक्साइड, मिथेन, नाइट्रस ऑक्साइड व जल कण  
E. इनमें से कोई नहीं

42. निम्नलिखित में से कौन से जलवायु परिवर्तन के लक्षण हैं?

- A. परिहिमानी क्षेत्र के विगलन
- B. ग्लेशियरों का पिघलना
- C. मानसून में परिवर्तन
- D. समुद्र का बढ़ता जलस्तर
- E. उपरोक्त सभी

43. प्राकृतिक गतिविधियां तथा मानवीय क्रिया-कलाप किसके लिए जिम्मेदार हैं?

- A. जलवायु परिवर्तन के लिए जिम्मेदार है
- B. मौसम में बदलाव के लिए जिम्मेदार है
- C. पारिस्थितिक तंत्र के लिए जिम्मेदार है
- D. गर्मी पड़ने के लिए जिम्मेदार है
- E. उपरोक्त सभी

44. निम्नलिखित में से कौन सा जलवायु परिवर्तन का कारण नहीं है ?

- A. महाद्वीपों का खिसकना
- B. ग्लेशियर का पिघलना
- C. ज्वालामुखी
- D. पृथ्वी और सूर्य के बीच की दूरी
- E. धरती का घुमाव

45. जलवायु परिवर्तन के संदर्भ में निम्नलिखित कथनों पर विचार करें।

- i. जलवायु परिवर्तन के दो कारण हैं- प्राकृतिक कारण व मानवीय कारण
  - ii. ग्रीन हाउस गैस उत्सर्जन प्राकृतिक कारणों में से एक हैं।
  - iii. पृथ्वी द्वारा सूर्य से ऊर्जा ग्रहण की जाती है जिसके चलते धरती की सतह गर्म हो जाती है।
- सही कथन का चयन करें-

- A. केवल i
- B. केवल ii
- C. केवल i और ii

- D. केवल i और iii
- E. उपरोक्त सभी

46. निम्न में कौन सी गैसों हैं जो पृथ्वी पर एक परत का निर्माण करती हैं?

- A. कार्बन डाइऑक्साइड, ऑक्सीजन
- B. मिथेन, नाइट्रस ऑक्साइड, बायोगैस
- C. कार्बन डाइऑक्साइड, मिथेन, नाइट्रस ऑक्साइड
- D. मिथेन, ऑक्सीजन, हाइड्रोजन ऑक्साइड
- E. उपरोक्त सभी

47. सूर्य से ग्रहण होने वाली ऊर्जा धरती की सतह को गर्म करती है, यह ऊर्जा जब वातावरण से होकर गुजरती है तो कितना प्रतिशत वातावरण में रह जाती है?

- A. 30 प्रतिशत वातावरण में रह जाती है
- B. 20 प्रतिशत वातावरण में रह जाती है
- C. 10 प्रतिशत वातावरण में रह जाती है
- D. 25 प्रतिशत वातावरण में रह जाती है
- E. 50 प्रतिशत

48. पृथ्वी पर औद्योगिक कारणों से कौन सी नवीन ग्रीन हाउस प्रभाव की गैसों वातावरण में संचित हो रही है?

- A. क्लोरोफ्लोरोकार्बन
- B. कार्बन डाइऑक्साइड
- C. मिथेन
- D. नाइट्रिक एसिड
- E. कार्बन मोनोऑक्साइड

49. उपरोक्त गद्यांश को निम्नलिखित में से किस शीर्षक द्वारा संदर्भित कर सकते हैं?

- A. ग्रीन हाउस प्रभाव
- B. जलवायु परिवर्तन
- C. मौसम परिवर्तन
- D. वातावरण परिवर्तन
- E. उपरोक्त में से कोई नहीं

50. ग्रीन हाउस प्रभाव किसे कहा जाता है?

i. पृथ्वी के ऊपर जब ग्रीन हाउस गैसों एक परत बनाकर अधिक ऊष्मा से इसकी रक्षा करती है।

ii. नवीन ग्रीन हाउस गैस जब वातावरण में संचित होती हैं।

iii. औद्योगिक कारणों से निकलने वाली गैसों को ग्रीन हाउस प्रभाव कहा जाता है।

सही कथन का चयन करें

- A. केवल i
- B. केवल iii
- C. दोनों i और ii
- D. दोनों ii और iii
- E. उपरोक्त में से कोई नहीं

51. Who is the newly appointed Union Minister of Ministry of Human Resource Development?

- A. Ramesh Pokhriyal
- B. Raj Nath Singh
- C. Prakash Javadekar
- D. Arjun Munda
- E. None of these

52. Which of the following countries will host the G20 summit in 2020?

- A. Japan
- B. Saudi Arabia
- C. Canada
- D. India
- E. Indonesia

53. Who is the first Deputy Prime Minister of India?

- A. G L Nanda
- B. Devi Lal
- C. Charan Singh
- D. Sardar Vallabhbhai Patel
- E. B.N.Rao

54. Indian player Amit Panghal is related to which sports?

- A. Cricket
- B. Shooting
- C. Tennis
- D. Boxing
- E. Chess

55. Who became the first ever woman vice-chancellor of Jamia Millia Islamia University (JMI)?

- A. Najma Heptulla
- B. Kafeel Ahmad
- C. Najma Akhtar
- D. Talat Ahmad
- E. Smriti Irani

56. On 12 February 2019, India's first aqua mega park was inaugurated in which state?

- A. Maharashtra
- B. Andhra Pradesh
- C. Gujarat
- D. West Bengal
- E. Kerala

57. Who is the chairperson of National Green Tribunal (NGT)?

- A. Justice U D Salvi
- B. Justice Umesh Dattatraya
- C. Justice Adarsh Kumar Goel
- D. Justice Dipak Misra
- E. Justice A M Khanwilkar

58. Who appoints the Comptroller and Auditor General?

- A. The Attorney general of India
- B. The Chief Justice of India
- C. The Prime minister
- D. The president
- E. Lok Sabha Speaker

59. The headquarter of Organisation for Economic Cooperation and Development (OECD) is in \_\_\_\_\_.

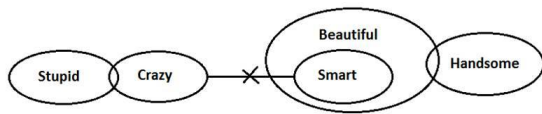
- A. London, UK
- B. Vienna, Austria
- C. Paris, France
- D. Beijing, China
- E. Rome, Italy

60. Which of the following country is not a member of BRICS association?

- A. Brazil
- B. Russia
- C. Iceland
- D. China
- E. South Africa

###ANSWERS###

1. Ans. E.

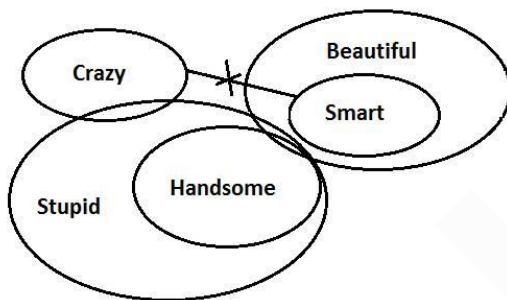


Conclusions:

I. Some Stupid are not Smart. – It is true as only a few Stupid are Crazy and no Crazy are Smart.

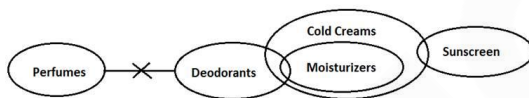
II. No Smart are Handsome. – It is false as we don't know any direct relation between Smart and Handsome.

III. All Handsome being Stupid is a possibility. – It is true as shown in figure given below:



Thus, both conclusions I and III follow.

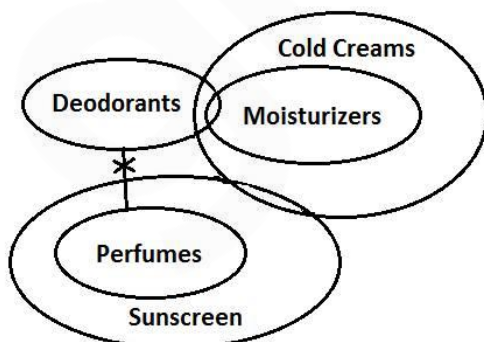
2. Ans. B.



Conclusions:

I. Some Deodorants are Sunscreen. – It is false as we don't know any direct relation between Deodorants and Sunscreen.

II. All Perfumes being Sunscreen is a possibility. – It is true as shown in figure given below:



III. No Moisturizers are Perfumes. – It is false as we don't know any direct relation between Moisturizers and Perfumes.

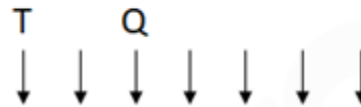
Thus, only conclusion II follows.

3. Ans. B.

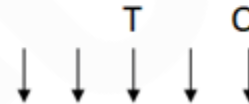
1) T sits second to the right of Q.

2) Q sits fifth from an end.

Case 1



Case 2

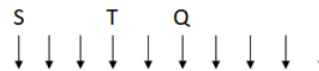


3) Four people sit between S and Q.

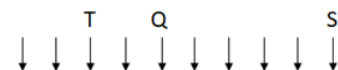
4) More than two people sit between T and S.

(Here, case 1 will be eliminated and we will continue with case 2)

Case 1



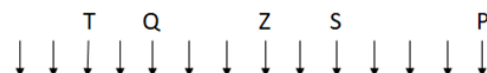
Case 2



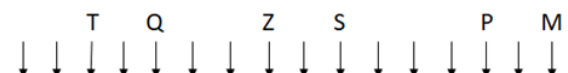
5) Three people sit between S and P, who is not an immediate neighbor of Q.

6) Five people sit between Z and P.

7) At most two people sit to the left of P.



8) Seven people sit between M and Z.



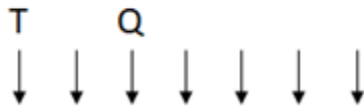
Therefore, option B is the correct answer.

4. Ans. C.

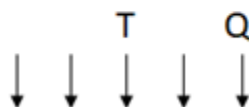


- 1) T sits second to the right of Q.
- 2) Q sits fifth from an end.

### Case 1

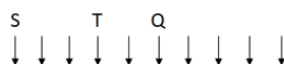


### Case 2

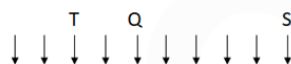


- 3) Four people sit between S and Q.
  - 4) More than two people sit between T and S.
- (Here, case 1 will be eliminated and we will continue with case 2)

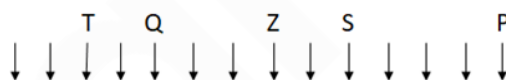
### Case 1



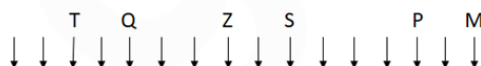
### Case 2



- 5) Three people sit between S and P, who is not an immediate neighbor of Q.
- 6) Five people sit between Z and P.
- 7) At most two people sit to the left of P.



- 8) Seven people sit between M and Z.



Therefore, option C is the correct answer.

5. Ans. C.

Logic behind the steps:

**Step 1:** Words are arranged according to the last letter in ascending order

**Step 2:** According to the number of letters in the word in descending order. If

two words have the same number of letters, then they are arranged in reverse dictionary order.

**Step 3:** The vowels in the letters are replaced by the previous letters in English alphabetical series and then arranged according to the dictionary. (A=Z; E=D; I=H; O=N; U=T)

**Step 4:** Number = (1<sup>st</sup> letter P.V. + Last letter P.V.) in English alphabet x 2

Input: Promotion After Immediately Riverdale Fantastic

Step 1: Fantastic Riverdale Promotion After Immediately

Step 2: Immediately Riverdale Promotion Fantastic After

Step 3: Fzntzsthc hmmddhztldy prnmnthnn rhvdrdzld zftdr

Step 4: 18 66 60 44 88

Clearly, three numbers are divisible by 11 in the last step.

6. Ans. E.

Logic behind the steps:

**Step 1:** Words are arranged according to the last letter in ascending order

**Step 2:** According to the number of letters in the word in descending order. If two words have the same number of letters, then they are arranged in reverse dictionary order.

**Step 3:** The vowels in the letters are replaced by the previous letters in English alphabetical series and then arranged according to the dictionary. (A=Z; E=D; I=H; O=N; U=T)

**Step 4:** Number = (1<sup>st</sup> letter P.V. + Last letter P.V.) in English alphabet x 2

Input: Promotion After Immediately Riverdale Fantastic

Step 1: Fantastic Riverdale Promotion After Immediately

Step 2: Immediately Riverdale Promotion Fantastic After

Step 3: Fzntzsthc hmmddhztldy prnmnthnn rhvdrdzld zftdr

Step 4: 18 66 60 44 88

Clearly, 'Riverdale' is 4<sup>th</sup> from the right in step 2.

7. Ans. C.

'Almost' = 'GC#21'

1) code for the first alphabet of the code = reverse place value letter of the last alphabet of the given word

2) code for the second alphabet of the code = next to next alphabet of the first alphabet according to dictionary, of the given word

3) code for the symbol =

# = if total alphabets are in even number

@ = if total alphabets are in odd number

4) code for the last number = addition of place value of first alphabet and last alphabet of the given word

Therefore, option C is the correct answer.

8. Ans. B.

Persons: A, B, C, D, E, F, G, H and J

Colors: Pink, Yellow, Green, Blue, Red, Black, Brown, White and Violet

Steps:

1) The one who likes blue sits on the leftmost place.

2) G sits on the 3<sup>rd</sup> position from the left end.

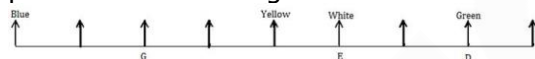
3) Two persons sit between G and E.



4) The one who likes white sits on the 6<sup>th</sup> position from the left end.

5) The one, who likes yellow, sits just to the left of the one who likes white.

6) D who likes green sits on the 2<sup>nd</sup> position from the right end.



7) The one who likes brown sits on the 4<sup>th</sup> position from the left end.

8) The one who likes pink sits exactly between the one who likes brown and the one who likes red, but not on the 5<sup>th</sup> position from the left end.

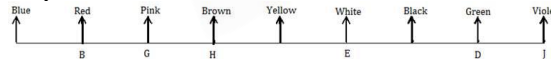
9) B sits on an even position from the left end but B doesn't like brown.



10) H sits on an even position from the left. The only place left for H is 4<sup>th</sup> position from the left.

11) The one who likes black does not sit at the rightmost position.

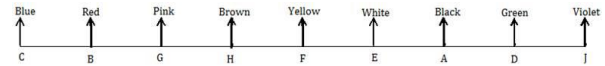
12) J likes violet.



12) A sits on an odd position from the left end but not on the leftmost position.

13) A does not sit on the 5<sup>th</sup> position from the left end.

14) C doesn't like yellow.



Clearly, C sits on the leftmost place.

9. Ans. A.

The correct answer is **option A**, i.e. **The UK home office told the Indian authorities that India's request to extradite Modi had been certified. The Indian agencies are now awaiting Modi's formal arrest.**

'Inference' is a conclusion reached on the basis of evidence and reasoning.

We first make sure to read the statement carefully and then see what immediate inferences can be drawn based on our first reading. The next step is to look at the statements given in the options, analyze them and see if they seem relevant with respect to the information/data provided to us.

Option (A) is an appropriate inference that can be drawn on the basis of the information provided. It is in the same direction as the given statement and carries the idea further with India's hoping for the arrest.

Option (C) can be rejected as no information is evident from the given context which supports the fact that Nirav Modi was spotted in London's West End earlier this month by Britain's The Telegraph newspaper. It is baseless and is thus rejected.

Option (D) can be eliminated as no information supporting the fact that Modi has travelled outside UK thrice, is evident from the given context.

From the given assumptions (A) is the most appropriate deduction that can be made.

As all the other options except (A) are irrelevant with respect to the data provided in the statement. Thus, the correct answer is option A.

10. Ans. D.

In piezoelectric effect, we have

- Direct effect: The application of stress to a crystal produces a strain which result in a net polarization.

- Inverse effect: The application of an electric field produce strain whose sign depends on the field direction.

11. Ans. B.

Total number of male patients treated by

$$\text{PG resident doctors} = 810 \times \frac{2}{(2+7)} = 180$$

$$\text{Total number of female patients treated by PG resident doctors} = 810 \times \frac{7}{(2+7)} = 630$$

$$\text{Number of PG resident doctors} = 120 \times \frac{15}{(100)} = 18$$

$$\text{Hence, the required difference} = \frac{630}{9} - \frac{180}{9}$$

$$9 = 70 - 20 = 50$$

12. Ans. C.

$$\frac{\text{Required}}{\text{Total number of patients treated}} = \frac{\text{average}}{\text{Total number of doctors}}$$

$$\frac{9240 + 3150 + 810}{120} = \frac{13200}{120} = 110.$$

13. Ans. B.

Solution: Let 1<sup>st</sup> and 2<sup>nd</sup> fill in the blank values be x and y, then

	A	B	C
Investment:	3	4	$(3 + \frac{3x}{100})$
Time (in months):	24	9	20
Ratio of profit:	72	36	$60(1 + \frac{x}{100})$
	= 6	3	$5 + \frac{5x}{100}$

According to question,

$$\frac{5 + \frac{5x}{100} - 3}{5 + \frac{5x}{100} - 6} = y \Rightarrow \frac{40 + x}{[x - 20]} = y$$

Now, check each of the options

Option A: 60% &  $\frac{1}{2}$

$$\text{When } x = 60\%, \text{ then } y = \frac{40 + 60}{60 - 20} = \frac{100}{40} = 2.5$$

Hence, this option is not true.

Option B: 50% & 3

$$\text{When } x = 50\%, \text{ then } y = \frac{40 + 50}{50 - 20} = \frac{90}{30} = 3$$

Hence, this option is true.

Similarly, we can check for other options.

14. Ans. D.

Let the speed of boat be b km/h and speed of current be c km/h.

$$\text{Given, } b - c = 54 \text{ km/h} \text{ ----- (I)}$$

$$b = \frac{400}{100} (b - c)$$

$$b = 4b - 4c$$

$$3b = 4c$$

$$b = \frac{4}{3}c$$

On putting this in eq. (I). we get,

$$\frac{4}{3}c - c = 54$$

$$c = 54 \times 3$$

$$= 162 \text{ km/h}$$

$$b = 216 \text{ km/h}$$

$$\text{Required answer} = \frac{945 \times 18}{(216 + 162)5} = 9 \text{ seconds}$$

15. Ans. B.

$$\text{Distance travelled by A in 2 hours} = (x - 5) \times 2 = 2(x - 5) \text{ km}$$

$$\text{So, remaining distance between them} = 480 - 2(x - 5) = (490 - 2x) \text{ km}$$

$$\text{Time of meet of A and B} = \frac{490 - 2x}{[(x - 5) + (x + 5)]} = \frac{490 - 2x}{2x} \text{ hours}$$

According to question,

$$\left[ \frac{490 - 2x}{2x} \right] \times (x + 5) = \frac{480}{2}$$

$$490x - 2x^2 + 2450 - 10x = 480x$$

$$2x^2 = 2450$$

$$x^2 = \frac{2450}{2} = 1225$$

$$x = \sqrt{1225}, x = 35$$

$$\text{Therefore, required time} = \frac{480}{35 - 5} = 16 \text{ hours}$$

So option (B) is the correct answer.

16. Ans. C.

Initially:

$$\text{Number of male in the bus} = \frac{4}{(5 - 4)} \times 15 = 60$$

$$\text{Number of female in the bus} = \frac{5}{(5 - 4)} \times 15 = 75$$

1<sup>st</sup> Step:

Let the number of female got down from the bus = 10x

Number of male got down from the bus = 10x + 30% of 10x = 13x

Number of male boarded the bus = 30

Number of female boarded the bus = A

So, number of male in the bus =  $60 - 13x + 30 = 64$  (Given)

$$\Rightarrow 13x = 26$$

$$\Rightarrow x = 2$$

So, number of female in the bus =  $75 - 10x + A = 75 - 20 + A = 55 + A$

$$10x + A = 75 - 20 + A = 55 + A$$

**2<sup>nd</sup> Step:**

Number of male got down from the bus = 9

Number of female got down from the bus = B

Number of male boarded the bus = 35

Number of female boarded the bus = 20

So, number of male in the bus =  $64 - 9 + 35 = 90$

So, number of female in the bus =  $(55 + A) - B + 20 = 75 + A - B$

According to question

$$\frac{90}{6} = \frac{75 + A - B}{5}$$

$$\Rightarrow A - B = 0$$

$$\Rightarrow A = B$$

**3<sup>rd</sup> Step:**

Let the number of male got down from the bus = 28

Number of female got down from the bus = 21

Number of male boarded the bus = p (let)  
Number of female boarded the bus = C - p

So, number of male in the bus =  $90 - 28 + p = 80$

$$\Rightarrow p = 18$$

So, number of female in the bus =  $75 - 21 + C - p$

According to question

$$\frac{80}{54 + C - 18} = \frac{80}{4}$$

$$\Rightarrow 36 + C = 60$$

$$\Rightarrow C = 24$$

So, number of male in the bus = 80

So, number of female in the bus = 60

**4<sup>th</sup> Step:**

Number of male got down from the bus = D

Number of female got down from the bus = 15

Number of male boarded the bus = 0

Number of female boarded the bus = 30

So, number of male in the bus =  $80 - D + 0 = 80 - D$

So, number of female in the bus =  $60 - 15 + 30 = 75$

According to question

$$60\% \equiv 75$$

$$\Rightarrow 40\% = \frac{75}{60} \times 40 = 50$$

$$\Rightarrow 40\% = \frac{75}{60} \times 40 = 50$$

So, number of male in the bus = 50

$$\Rightarrow D = 80 - 50 = 30$$

**At destination:**

Number of male got down from the bus = 50

Number of female got down from the bus = 75

$$A = B = 16$$

$$\text{So, } 2B = 2 \times B = 2 \times 16 = 32$$

17. Ans. A.

**Quantity I:** probability of at least one black = 1 - probability of no black ball

$$\text{probability of no black ball} = \frac{{}^{11}C_4}{{}^{15}C_4} = \frac{22}{91}$$

Probability of at least one black =

$$1 - \frac{22}{91} = \frac{69}{91}$$

**Quantity II:** Probability of all white =

$$\frac{{}^6C_4}{{}^{15}C_4} = \frac{1}{91}$$

So Quantity I > Quantity II

18. Ans. A.

$$\frac{4x-4}{x-4} = \frac{7}{1}$$

$$x = 8$$

Present age of father =  $8 \times 4 = 32$

**Quantity II:** ratio =  $3y : y$

$$\text{ATQ, } 3y - (13 + 13) = y$$

$$2y = 26$$

$$y = 13$$

Present year =  $13 + 13 = 26$

Quantity I > Quantity II

19. Ans. A.

**Quantity I:** Speed of train A in (Km/hr) =

$$\frac{132 + 183}{9} \times \frac{18}{5} = 126 \text{ km/hr}$$

**Quantity II:** Speed of train B in

$$\frac{300}{3.5} = 85.71 \text{ km/hr}$$

So Quantity I > Quantity II

20. Ans. E.

Days	Total amount of waste (wet and dry) collected	Amount of wet waste in tons	Amount of dry waste in tons	Amount of wet waste recycled in tons	Amount of dry waste recycled in tons
Monday	700	420	280	—	70 tons
Tuesday	1200	—	—	32%	44%
Wednesday	840	480	360	22.50%	—
Thursday	900	200	700	18%	—
Friday	1600	—	—	17.5%	32.5%

Let the percentage of amount of wet waste recycled on Monday =  $x\%$ ,

Total amount of wet waste recycled on Monday =  $x\%$  of  $\frac{3}{5} \times 700 = 4.2x$  tons

Total amount of dry waste recycled on Monday =  $25\%$  of  $\left(\frac{2}{5} \times 700\right) = 70$  tons

According to question  
 $\frac{4.2x}{12} : \frac{70}{5}$   
 $\Rightarrow x = 40$

Hence, the required ratio =  $(100 - 18) : (100 - 40) = 82 : 60 = 41 : 30$ .

21. Ans. C.

Statement I can be inferred from the passage as it is mentioned "According to a study by the Society for Human Resource Management (SHRM), employees who take most or all of their vacation time are almost universally more productive, higher-performing, and more satisfied than their vacation-skipping counterparts" supports. Similarly, statement II can be inferred from the part "In line with this philosophy, many workplaces encourage the employees who appear to be working the hardest. The ones who never take breaks, come in early, or stay late are seen to be "go-getters" and work horses. They're seen to be more valuable, since they're making more sacrifices for the company, and more indispensable, since they would be harder to replace".

Statement III talks about cultural awareness which doesn't fit in the theme of the passage and hence cannot be inferred.

22. Ans. C.

In the passage, it is mentioned that "The ones who never take breaks, come in early, or stay late are seen to be "go-

getters" and work horses". So, a 'go-getter' is someone who is very energetic, determined to be successful, and able to deal with new or difficult situations easily. This is in agreement with option C which is the correct answer.

23. Ans. B.

From "Feelings of shame, guilt, or even fear were common. In line with these feelings, as much as 48 percent of millennials aren't using the full amount of paid time-off they receive each year, and about half of Americans (53 percent) haven't taken a vacation in the past year" we can see that statement I is True.

From "Spending another hour at work may not seem like a big deal, but once you start sacrificing the hours of sleep, relaxation, and enjoyment you need, your health can start to decline, and every hour you spend on the job gradually becomes less valuable" we can see that statement III is True.

It is given in the passage that "...popularize the "American Dream"—the idea that through hard work, anyone can achieve anything". Nothing has been mentioned about having the right connections. So, statement II is not True.

24. Ans. C.

The paragraph is talking about decrease in number of lions in the Gir Forest. The sentence that introduces this topic is option C. So, C comes first. E could also work as an introduction. But, E introduces the topic of 'infighting in the wild' which doesn't match with other sentences in the paragraph. Now, for the next sentence, we need elaboration on the topic introduced in C. F does this perfectly as it gives statistics about the death of lions. Now, an event took place, so we would have consequences. An immediate consequence of the events is that an inquiry was made, as described in A. So, A comes next. So far, our sequence is CFA. The next is D as it is fixed. The remaining two sentences are B & E. E should come after D as both have a common topic of 'infighting'. D talks about infighting while E talks about the causes of the same. This leaves B for the



last. It concludes the segment in an apt manner.

So, the sequence becomes CFADEB.

25. Ans. E.

The paragraph is talking about decrease in number of lions in the Gir Forest. The sentence that introduces this topic is option C. So, C comes first. E could also work as an introduction. But, E introduces the topic of 'infighting in the wild' which doesn't match with other sentences in the paragraph. Now, for the next sentence, we need elaboration on the topic introduced in C. F does this perfectly as it gives statistics about the death of lions. Now, an event took place, so we would have consequences. An immediate consequence of the events is that an inquiry was made, as described in A. So, A comes next. So far, our sequence is CFA. The next is D as it is fixed. The remaining two sentences are B & E. E should come after D as both have a common topic of 'infighting'. D talks about infighting while E talks about the causes of the same. This leaves B for the last. It concludes the segment in an apt manner.

So, the sequence becomes CFADEB.

26. Ans. C.

The error is in the third part of the sentence.

We need to replace 'along about' with 'along with'. The phrase 'Along about' is used to speak vaguely about a certain time frame. The correct phrase will be 'along with' which implies the sense of 'in addition to (something or someone)'.

So, the correct answer is option C.

27. Ans. A.

The error is in the first part of the sentence.

We need to replace 'before' with 'ago'. The sentence talks about something that occurred millions of years ago. 'Before' is used 'at or during a time earlier than the mentioned thing'. 'Ago' states something back in the past. Thus, 'ago' should be used in the sentence to make it grammatically correct.

So, the correct answer is option A.

28. Ans. E.

The sentence is correct both grammatically and contextually and requires no correction. Thus, option E is the correct answer.

29. Ans. E.

The second part for part B should start with a noun to whom lunch can be served. No such option is available in column II. So, B is pair less. We can negate options A, B & D.

If we determine which part (E or F) will pair with part A, we will know which is the correct answer. The next part for part A should start with a continuous form of the verb to match with the auxiliary verb "are". So, A-E is the required pair.

Part C ends with the article 'the'. Thus, it needs a noun to follow. The only option which has a noun at the beginning is option F. Thus, C-F also makes a pair which is grammatically correct and makes sense as well.

Hence, the correct answer is E.

30. Ans. C.

All the parts in column I ends with "to". But only part C will be followed by a verb, as the "to" here is the 'to-infinitive'. Part A & B will be followed by a noun.

Part D starts with the adverb, followed by the verb 'manage'. C-D makes a pair, which is grammatically correct and makes contextual sense.

"Due to" is used to state a reason behind an event (decline in the population of lions). Of the options in column II the only that could be the reason behind the decline in the population of lions, part F is the most suitable one. So, A-F is a part of the final answer.

The only option with A-F and C-D is option C. Hence, the correct answer is C.

31. Ans. A.

There are multiple meanings for the word 'hatch'.

Firstly, 'hatch' means to make a plan secretly, which has been mentioned in option 1. Therefore, option 1 is correct.

Secondly, 'hatch' is used for the act of an animal breaking the egg for facilitating the young one to come out. Option 2 mentions that the farmer hatched the egg, which is incorrect as the eggs hatch

on their own. Therefore, this option is incorrect.

Thirdly, 'hatch' represents an opening or crack through a wall, door, floor, etc. This meaning has not been taken in any of the three options.

The use of 'hatch' in option 3 is incorrect as none of the above meanings fits in option 3 meaningfully.

Thus, option A is the correct answer.

32. Ans. C.

**Bridges work** at Layer 2 (Data Link) because they examine the **MAC address** of the packet which they base decisions upon.

33. Ans. C.

The **hexadecimal numeral system**, is a numeral system made up of base 16.

34. Ans. C.

A subscriber identity module (SIM) is an integrated circuit that is intended to securely store the **international mobile subscriber identity** (IMSI) number and its related key, which are used to identify and authenticate subscribers on mobile telephony devices.

35. Ans. B.

A **patch** is a piece of software designed to update a **computer program** or its supporting data to **fix** or improve it.

36. Ans. C.

○ **1024 × 1024 KB is equal to 1GB.**

○ KB(kilobytes) and GB(Gigabytes) are the measurements of the size of computer storage memory or anything which has a memory to store any data.

○ Bytes is the smallest measurement of the size of memory.

○ 1KB=1024 bytes

37. Ans. B.

In **MS-access** the row of table corresponds to **Record**. A record is a collection of elements, typically in **fixed number** and sequence and typically indexed by **serial numbers** or identity numbers.

38. Ans. D.

A **local area network** (LAN) is a group of **computers** and associated devices that share a common communications line or wireless link to a server.

**Note:** LANs are characterized by higher communication and data transfer rates

and the lack of any need for leased communication lines.

39. Ans. B.

Kernel is a central component of an **operating system** which acts as an interface between the **user applications** and the **hardware**. It is also called as **the heart** of the operating system.

40. Ans. A.

**The software** can be divided into **two general** classes: **systems software** and **applications software**. Applications software (also called end-user programs) include such things as database programs, word processors, Web browsers, and spreadsheets.

41. Ans. C.

गद्यांश से, मौसम, किसी भी स्थान की औसत जलवायु होती है जिसे कुछ समयावधि के लिए वहां अनुभव किया जाता है। इस मौसम को तय करने वाले मानकों में वर्षा, सूर्य, प्रकाश, हवा, नमी व तापमान प्रमुख हैं।

42. Ans. E.

जलवायु परिवर्तन के लक्षण ग्लेशियरों के पिघलने, ध्रुवीय बर्फ में खंडित होने, परिहिमानी क्षेत्र के विगलन, मानसून के तरीकों में परिवर्तन, समुद्र के बढ़ते जलस्तर, बदलते पारिस्थितिक तंत्र एवं घातक गर्म तरंगों में देखे जा सकते हैं।

43. Ans. A.

जलवायु परिवर्तन के लक्षण जैसे ग्लेशियरों के पिघलने, ध्रुवीय बर्फ में खंडित होने, परिहिमानी क्षेत्र के विगलन, मानसून के तरीकों में परिवर्तन, समुद्र के बढ़ते जलस्तर, बदलते पारिस्थितिक तंत्र एवं घातक गर्म तरंगों के लिये एक प्रकार से प्राकृतिक गतिविधियां तथा मानवीय क्रिया- कलाप ही जिम्मेदार हैं।

44. Ans. D.

महाद्वीपों का खिसकना, ज्वालामुखी, समुद्री तरंगें, ग्लेशियर का पिघलना और धरती का घुमाव जलवायु परिवर्तन के प्राकृतिक कारणों में से हैं।

45. Ans. D.

i. जलवायु परिवर्तन के दो कारण हैं- प्राकृतिक कारण व मानवीय कारण

ii. ग्रीन हाउस गैस उत्सर्जन मानवीय कारणों में से एक हैं।

iii. पृथ्वी द्वारा सूर्य से ऊर्जा ग्रहण की जाती है जिसके चलते धरती की सतह गर्म हो जाती है।

46. Ans. C.

पृथ्वी पर परत बनाने वाली गैसों में शामिल हैं कार्बन डाइऑक्साइड, मिथेन, नाइट्रस ऑक्साइड व जल कण, जो वातावरण के 1 प्रतिशत से भी कम भाग में होते हैं। इन गैसों को ग्रीन हाउस गैसों भी कहते हैं।

47. Ans. A.

पृथ्वी द्वारा सूर्य से ऊर्जा ग्रहण की जाती है जिसके चलते धरती की सतह गर्म हो जाती है। जब ये ऊर्जा वातावरण से होकर गुजरती है, तो कुछ मात्रा में, लगभग 30 प्रतिशत ऊर्जा वातावरण में ही रह जाती है।

48. Ans. A.

औद्योगिक कारणों से भी नवीन ग्रीन हाउस प्रभाव की गैसों वातावरण में सावित हो रही हैं, जैसे क्लोरोफ्लोरोकार्बन, जबकि ऑटोमोबाइल से निकलने वाले धुएँ के कारण ओजोन परत के निर्माण से संबद्ध गैसों निकलती हैं।

49. Ans. B.

उपरोक्त गद्यांश का शीर्षक जलवायु परिवर्तन है। उपरोक्त गद्यांश में जलवायु परिवर्तन की समस्या के विषय में बताया गया है अतः हमारे गद्यांश का शीर्षक जलवायु परिवर्तन है।

50. Ans. A.

ग्रीन हाउस गैसों, पृथ्वी के ऊपर एक परत बनाकर अधिक ऊष्मा से इसकी रक्षा करती है। इसी कारण इसे ग्रीन हाउस प्रभाव कहा जाता है।

51. Ans. A.

Ramesh Pokhriyal is the newly appointed Union Minister of Ministry of Human Resource Development. He succeeded **Prakash Javadekar**.

52. Ans. B.

Saudi Arabia (first G20 meeting in the Arab world) will host the G20 summit on 21-22 November 2020 in its capital Riyadh.

Note:

• Italy will host the G20 Summit in 2021.

• India will host the G20 Summit in 2022 when the country celebrates its 75th year of Independence.

About G-20

The G20 (Group of Twenty) is an international forum for the governments and central bank governors from 19 countries and the European Union.

It was founded in 1999 with the aim to discuss policy pertaining to the promotion of international financial stability.

53. Ans. D.

The **first Deputy Prime Minister** of India was **Sardar Vallabhbhai Patel**, who was also **home minister** in Jawaharlal Nehru's cabinet.

54. Ans. D.

India's Boxer Amit Panghal picked up his second successive gold medal of the year in the 52-kilogram category.

Panghal defeated Korea's Kim Inkyu Korea.

India bagged one gold and two silver medals at the Asian Boxing Championships in Bangkok.

55. Ans. C.

• On 11th April 2019, Professor **Najma Akhtar** of National Institute of Educational Planning and Administration has been appointed as the first women vice-chancellor of Jamia Millia Islamia University (JMI) for a period of five years by the President of India.

• She will succeed Talat Ahmad.

56. Ans. B.

• India's first aqua mega park was inaugurated in Andhra Pradesh on 12 February 2019.

• The park is promoted by Godavari Mega Aqua Food Park limited.

• It is the first park for processing fish and marine products in Andhra Pradesh.

• The park has been set up under the Ministry of Food Processing Industries' Mega Food Park Scheme.

57. Ans. C.

Justice **Adarsh Kumar Goel**, who retired from the Supreme Court, has been appointed the chairperson of the National Green Tribunal (NGT).

**Note:**

• **National Green Tribunal (NGT)** is a dedicated body armed with the essential

skill to handle the environmental disputes involving multi-disciplinary issues.

- It was established on **18 October 2010** under the **National Green Tribunal Act 2010** for effective and expeditious disposal of cases relating to environmental protection and conservation of forests.

58. Ans. D.

The President of India has appointment powers. He appoints CJI, CAG, CEC, Chairman of UPSC, Attorney General, ambassadors and high commissioners to other countries, IAS, IPS.

59. Ans. C.

The headquarter of Organisation for Economic Cooperation and Development (OECD) is in **Paris**, France. It was established in 1961.

60. Ans. C.

Iceland is not a member of BRICS association. BRICS is an association of five major emerging national economies: Brazil, Russia, India, China and South Africa. It is an international organisation encouraging commercial, political and cultural cooperation among countries and creating a global financial institution for lending and improving the GDP of the world.



# IBPS RRB 2020

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