



# VIDHVATH ACADEMY FOR COMPETITIVE EXAMS

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## FULL LENGTH TEST: VPT053 CIVIL SERVICES APTITUDE TEST (CSAT) TEST BOOKLET

*Time Allowed: 120 mins*

*Maximum Marks: 200*

### INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET DOES NOT HAVE ANY UNPRINTED OR TURN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
  2. ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE ANSWER SHEET.
  3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. Do NOT write anything else on the Test Booklet.
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4. This Test Booklet contains 80 items (Questions). Each item is printed in English. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response with you consider the best. In any case, choose ONLY ONE response for each item.
  5. You have to mark all your responses ONLY on the separate Answer Sheet provided. See direction in the answers sheet.
  6. All items carry equal marks. Attempt all items. Your total marks will depend only on the number of correct responses marked by you in the answer sheet. For every incorrect response  $\frac{1}{3}$ <sup>rd</sup> (0.83) of the allotted marks will be deducted.
  7. Before you proceed to mark in the Answer sheet the response to various items in the Test booklet, you have to fill in some particulars in the answer sheets as per instruction sent to you with your Admission Certificate.
  8. After you have completed filling in all responses on the answer sheet and the examination has concluded, you should hand over to Invigilator only the answer sheet. You are permitted to take away with you the Test Booklet.
  9. Sheet for rough work are appended in the Test Booklet at the end.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO

**Direction for the following 1 (one) item:**

Read the following passage and answer the item that follows. Your answer to the item should be based on the passage only.

**PASSAGE 1**

Accounts of Dravidian mobilization in Tamil Nadu have focused largely on their achievement of economic growth and welfare outcomes. Less recognized is the centrality of urbanization in distributing the benefits of growth and development relatively more inclusively. T.N.'s urban trajectory has been distinct from most other parts of India on two accounts. One, T.N. has continuously attempted the breakdown of traditional caste-based hierarchies to enable the upward mobility of ordinary people, transforming them into agents of urban transformation. Two, urbanization in T.N. is more broad-based, being driven by multiple urban centres rather than a few metropolitan cities, as in the case of Maharashtra or Gujarat.

1. Which of the following is the most important message the author wants to convey through the above passage?
  - (a) Tamilnadu's urban trajectory has been distinct from other parts of India.
  - (b) Tamilnadu has continuously attempted the breakdown of caste based hierarchies.
  - (c) Urbanisation in Tamilnadu is more broad based.
  - (d) Urbanisation has helped Tamilnadu in distributing the dividends of growth across the population in a better way.

**Direction for the following 1 (one) item:**

Read the following passage and answer the item that follows. Your answers to the item should be based on the passage only.

**PASSAGE 2**

The union government has now formed a three member Commission of Inquiry headed by former Chief Justice of India, Justice K.G. Balakrishnan, to examine whether the Scheduled Caste (SC) status can be accorded

to Dalits who have over the years converted to religions other than Sikhism or Buddhism.

2. Based on the above passage following assumptions have been made.

I. Religion as a criteria to accord Schedule Caste status to Dalits may be removed.

II. Inclusion of Dalit Christians and Muslims as Schedule Caste may be considered.

Which of the above assumptions are/is valid?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor I

3. Sarath borrowed a sum of Rs.9000 at a Bankin Simple Interest. He borrowed the same amount from one of his friend in compoundinterest. If the difference between his interest is Rs.40, find the rate percentage?

- (a) 5.55%
- (b) 6.66%
- (c) 7.77%
- (d) 8.88%

4. The average age of three old ladies before 3 years was 42. The average age of second and third old lady 5 years ago was 25. What is the present age of first old lady?

- (a) 56
- (b) 69
- (c) 75
- (d) 84

5. Four sides of a rectangular swimming pool are 1012 metres, 1276 metres, 1716 metres and 2112 metres respectively. Find the greatest length of a scale which can measure the 4 sides of the pool completely?

- (a) 45
- (b) 47
- (c) 44
- (d) 46

**Directions for the following 3 (Three) items:**

Read the following passage and answer the items that follow. Your answers to these items should be based on the passage only.

**PASSAGE 1**

There are four declared candidates for permanent membership: India, Japan, Brazil and Germany, called the G-4. Africa and Latin America and the Caribbean are unrepresented in the permanent category at present. Africa's claim for two permanent seats has wide understanding and support, but the Africans have yet to decide which two countries these are to be. As for India, we can discount Pakistan's opposition; China will not support India nor will it ever support Japan. Brazil has regional opponents and claimants. As for Germany, Italy is firmly opposed to its claim.

Italy has an interesting argument. If Germany and Japan – both Axis powers during the Second World War, and hence 'enemy' states – were to join as permanent members, that would leave out only Italy, the third founding member of the Axis group. In any case there are already three western nations among the P-5. Even if India enjoyed near universal support, there is no way that India alone can be elected; it will have to be a package deal involving countries from other groups.

There is quite a debate going on about whether the aspiring countries should accept permanent membership without the right of veto. There is no ambiguity regarding the position of the P-5. Every one of them is firmly opposed to conferring the veto power to any prospective new permanent member. Not just the P-5. The vast majority of members do not want any more veto-wielding members in the Council. There is a proposal to the effect that a resolution can be defeated only by a negative vote of at least two permanent members. This also is a non-starter; the P-5 are firmly opposed to any dilution of their privileged position.

6. Out of four declared candidates for permanent membership to UN security council, India alone can be elected because :

- I. India has near universal support.
- II. Germany's claim is opposed by India
- III. Japan's claim is opposed by China
- IV. Brazil claim is opposed by her neighbors.

Give the correct answer using the following codes.

- (a) II, III and IV only
- (b) I only
- (c) I, II, III and IV
- (d) None of the above

7. Following assumptions have been made based on above passage:

- I. Addition of few more non permanent members would not be objected to by P-5.
- II. With India's present standing it should be easy to become a permanent member.

Which of the above assumptions are valid?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

8. With which of the following statements the author of the passage will not agree:

- I. No P-5 members will agree to give permanent membership with veto power.
- II. A resolution can be defeated by a negative vote of at least two permanent members.
- III. Africa's claim for two permanent seats has a wide understanding.
- IV. Many member nations do not mind addition of few more permanent members with veto power.

Answer using the following codes:

- (a) All of the above
- (b) I and II only
- (c) II and IV only
- (d) None of the above

9. Rajesh and Ramesh contest in an election. There were 7000 votes totally and Rajesh won by securing 55% of the valid votes. What would have been the valid votes secured by Ramesh, if 30% of the total votes were declared invalid?

(a) 2135  
(b) 2425  
(c) 2365  
(d) 2205

10. Rolex watch showroom allows a discount of 10% on the advertised price of a new arrival watch. What price should be marked on that watch, that costs them 60,000, so that they make a profit of 20%?

(a) 80,000  
(b) 72,000  
(c) 75,000  
(d) 85,000

11. Four positions of a single dice are given below. Find the digit at the face opposite to the face having the digit '3'?



(a) 1  
(b) 4  
(c) 3  
(d) 6

12. What number will come in the place of '?'.  
2, 6, 12, 20, ?, 38, 50.

(a) 24  
(b) 26  
(c) 28  
(d) 30

**Directions for the following 3 (three) items:**

Read the following passage and answer the items that follow. Your answers to these items should be based on the passage only.

**PASSAGE 1**

Ladakh's recent Union Territory status, a government eager to expand economic opportunities via tourism and the Indian Army expanding its infrastructure

development, lighting to bolster its defence at the India-China border which is not far away – all these are challenges in keeping light from seeping into Hanle.

To strike a balance, the Ladakh government along with the Indian Institute of Astrophysics (IIA) and India's Scientific Ministries is laying the groundwork to have Hanle declared as an International Dark Sky Reserve by the International Dark-Sky Association. Since 1988, the U.S. based non-profit has been advocating the cause of minimizing light pollution and certifies places where night skies are least polluted as International Dark Sky Reserves or sanctuaries.

"The average tourist visits for high roads, exotic landscape, and Pangong Lake. Hanle is already in a wildlife sanctuary and developing it as such a reserve would encourage a newer kind of tourism, or Astro-tourism," says Kotwal. "The most important condition, however, is that it must have the support of the local community".

In the weeks ahead, amateur and professional astronomers have been roped in by the IIA and the local government to give talks on constellations to villagers. As many as 18 telescopes will be set up in village clusters, and homestay owners trained in elementary astronomy to guide Astro-tourists. Villagers will also be given dark curtains to minimize outgoing light from residences. The roads will be installed with light delineators. Having been promised electrification in two years and funds from the government to improve their homes to homestays, residents of the village say they would be happy to comply with light restrictions.

13. From the above passage following are the challenges in keeping artificial light away from Henle:

I. Lighting at the Indo-China border.  
II. Restrictions of Dark-Sky association.  
III. Increased economic activities.  
IV. Electrification of the village to improve homes as homestays.

Select the correct answer using the code below:

- (a) I, II and IV only
- (b) I, III and IV only
- (c) I, II and III only
- (d) II, III and IV only

14. Which of the following measures from the passage will enable Hanle to be developed as an International Dark Sky Reserve:

- I. Developing Astro tourism by government.
- II. Issue of dark curtains to villagers to minimise outgoing light from the residences.
- III. Light delineators for roads.
- IV. Support of the local community.

Select the right answer using the code below:

- (a) I, II, III and IV
- (b) I and II only
- (c) I and III only
- (d) II, III and IV

15. Once Hanle is declared as an International Dark Sky Reserve, the following are the assumptions that can be made based on the passage:

- I. Indian Institute of Astrophysics (IIA) is likely to get a boost to its activities.
  - II. Local community will not get any benefits due to proposed light restrictions.
- Select which of the above restrictions are / is valid using the following codes :

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

16. The sum of five consecutive even numbers is 116 more than the sum of four consecutive odd numbers. If the sum of smallest odd number and smallest even number is 55, what is the smallest odd number?

- (a) 167
- (b) 181
- (c) 173
- (d) 199

17. Balaji, Arun, Prasad and Vimal are business partners. Their profit is shared in the ratio 3:5:9:13 respectively. If the share of Prasad is 1800 Rs more than share of Balaji, then what is the total amount of share received by Arun and Vimal?

- (a) 5400
- (b) 4700
- (c) 6200
- (d) 3600

18. Amit and Sumit can do a piece of work in 15 days and 20 days respectively. Both of them worked together and earned Rs.3500. What would be the share of Amit?

- (a) 1500
- (b) 2000
- (c) 3500
- (d) 4000

19. In a 1500 m running race, two players run at 10 kmph and 8 kmph respectively. The second player is 100 metre ahead of the first player. What time will be taken by the first player to overtake second player?

- (a) 6 minutes
- (b) 2 minutes
- (c) 5 minutes
- (d) 3 minutes

**Direction for the following 1 (one) item:**

Read the following passage and answer the item that follows. Your answer to the item should be based on the passage only.

### PASSAGE 1

The fall in fertility around the globe has been a result of decades of demographic process, and hence needs scientific and sustainable policies for mitigation. Even though there is looming pessimism about a lower fertility rate, there are ways to get the most out of it and diminish its negative effects. The advancement in healthcare and better nutrition around the world have increased the life expectancy and productivity of older

citizens. Reforms in the labour market to induce more flexibility in the labour market would encourage working women to have more children and non-working mothers to enter the labour market.

20. What is the most logical and rational inference of the above passage.  
 (a) Nothing can be done to mitigate the negative effects of fall in fertility rate.  
 (b) More women should start working to stem the shortfall of the labour market.  
 (c) India is unlikely to be impacted by the falling fertility rate.  
 (d) Labour reforms are needed to retain elderly and to incentivize mothers/would be mothers to contribute in the labour markets.
21. The length and breadth of a rectangular signboard are in the ratio 7:2 respectively. Find the perimeter of the signboard if 15m area is 3584 sq m.  
 (a) 246 m  
 (b) 292 m  
 (c) 286 m  
 (d) 288 m
22. Santhosh went to a hotel to buy some tiffen namely idly, vada & dosa. He has to buy atleast 9 units of each. He buys more vada than idly & more dosa than vada. He picks up a total of 32 items. How many vada does he buy?  
 (a) Either 12 or 13  
 (b) Either 11 or 12  
 (c) Either 10 or 11  
 (d) Either 9 or 11
23. Vishal reaches Patna on Friday and found he reached the place 3 days before. If he had reached Patna on coming Sunday, then how many days before or after he would have reached Patna?  
 (a) One day before  
 (b) One day after  
 (c) Two days before  
 (d) Two days after

24. A rectangular floor has to be decorated with square tiles. Length and breadth of the floor is 35m and 49m respectively. If the side of one tile is 7m, find the number of tiles needed to decorate the floor.  
 (a) 35  
 (b) 56  
 (c) 49  
 (d) 63
25. In a school, the students are interested in various sports activities. 55% are interested Badminton, 50% are interested in Volleyball, 42% are interested in Hockey, 28% are interested in Badminton and Volleyball, 20% are interested in Volleyball and Hockey, 12% are interested Badminton and Hockey and 10% are interested in all the three. If each one of them are interested in atleast one of these, then what percentage of students are interested in exactly one sport?  
 (a) 40%  
 (b) 49%  
 (c) 57%  
 (d) 59%
26. A is the brother of B and C. D is C's father and B is the son of E. If D has only one daughter, which of the following cannot be true?  
 (a) B is the brother of A  
 (b) D and E are married couples  
 (c) A, B and C are brothers  
 (d) E is C's mother.

**Directions for the following 2 (two) items:**

Read the following passage and answer the items that follow. Your answers to these items should be based on the passage only.

**PASSAGE 1**

The Bay of Bengal has long been a major commerce hub for the Indian Ocean. It created a conduit between the East and the West in terms for trade and culture. An Indo-Pacific orientation and the realignment of global economic and military power towards

Asia have had a considerable impact on the Bay region. The key sea lanes of communication in this area are lifelines for global economic security and are crucial to the energy security that powers the economies of many countries in the region. Further, non-traditional dangers including terrorism and climate change have become more prevalent. The Bay also provides an opportunity for greater regional cooperation in the environmentally friendly exploration of marine and energy resources. The Bay has a biodiverse marine environment. It receives water from some of the world's largest rivers. It is a partially enclosed sea that has given rise to several geological characteristics. It is home to many rare and endangered marine species and mangroves, which are essential to the survival of the ecology and the fishing sector.

27. On the basis of the above passage following assumptions have been made:

- I. Littoral governments working together is important, due to the shared nautical concerns and the complexity of the marine environment in the bay of Bengal.
- II. For a better knowledge of challenges and strategies of and for the Bay of Bengal there is a need for suitable study centres.

Which of the above assumptions is/are valid?

Select your answer using the code below:

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

28. With which of the following statements the author will not agree:

- (a) Bay of Bengal is a major commerce hub for the Indian Ocean.
- (b) Non traditional dangers are now highly prevalent in the Bay
- (c) Key sea lanes in the Bay are important for global economic security.
- (d) The Bay has biodiverse aquatic habitats.

29. Sandeep started walking towards North, he walks 5 metres and then turns to his right, walks 2 metres and turn to his right again and walks 6 metres and turns to his left, walks 4 metres and then turns to his right. At this point, in which direction he is facing?

- (a) South
- (b) South west
- (c) North
- (d) North east

30. If in a certain language, APPROACH is written as YRNTMCF, then OBJECTIVE is written as

- (a) MGDHGAVXIG
- (b) MDHGAVHTG
- (c) MDHGAVGXC
- (d) MDGHAVITG

31. Six bells ring at intervals of 2, 3, 5, 6, 9, 12 minutes respectively. They started ringing simultaneously at 5.00 am. Until 2.00 pm, how many times all the bells will ring together?

- (a) 4 times
- (b) 2 times
- (c) 6 times
- (d) 3 times

32. Out of 18 games in a tennis tournament, the average points scored by a player is 30. Her highest point exceeds her lowest score by 20 points. If her lowest and highest point games are not considered, her average is decreased by 2. Find her highest point.

- (a) 52
- (b) 54
- (c) 56
- (d) 58

33. Sheela had a particular amount in hand. She spent 90% of that amount for her family and gave the remaining amount to Meena. From the money meena received from Sheela, she spent 15% on books and 20% on medicines. After all the expenses, Meena had 1950 Rs. In her hand as the

remaining amount. What was the amount which Sheela gave to meena?

- (a) 3000
- (b) 2500
- (c) 1700
- (d) 2600

34. The cost price of a branded T-shirt is Rs.150 more than the cost price of a normal T-shirt. Normal T-shirt was sold at a profit of 10% and Branded T-shirt was sold at a loss of 20%. If the ratio of selling price of the two T-shirts is 11:12, what is the cost price of the Branded T-shirt?

- (a) 400 Rs.
- (b) 450 Rs.
- (c) 480 Rs.
- (d) 520 Rs.

35. Arjun borrowed a certain sum from Babu for 2 years at simple interest. Arjun lent that sum to Chandru at the same rate of interest for 2 years at compound interest. At the end of 2 years, Arjun received Rs.110 as compound interest but paid Rs.100 to Babu as simple interest. Find the sum and rate of interest.

- (a) Rs.250, 10%
- (b) Rs.250, 20%
- (c) Rs.250, 25%
- (d) Rs.250, 30%

### Directions for the following 3 (three) items:

Read the following passage and answer the items that follow. Your answers to these items should be based on the passage only.

### PASSAGE 1

Politics for Gandhiji, was but a part of man's life, one that encircles men like the coil of a snake from which one cannot get out, no matter how much one tries. Though he thought that an increase in the power of the state can inflict the greatest harm to mankind by destroying individuality which lays at the root of the progress, yet he viewed political power as a means that enabled people to make their conditions better in

every department of life. He wrote, "my work of social reform was no way less or subordinate to political work. The fact is, that when I saw that to a certain extent my social work would be impossible without the help of political work, I took to the latter and only to the extent it served the former". Political life is not stranger to other aspects of life. He used to say, "My life is one indivisible whole, and all my activities run into one another, and they all have their rise in my insatiable love of mankind".

Political activity of man is closely associated with other activities of man and all these activities, according to Gandhiji, influence each other. That is why he never separated politics from other walks of man's life. What he hated in politics was the concentration of power and the use of violence associated with political power. In his own words, "The state represents violence in a concentrated and organized form.

The individual has a soul, but the state is soulless machine, it can never be weaned from violence to which it owes its very existence. What I would personally prefer, would be not a centralization of power in the hands of the State but an extension of the sense of trusteeship ...." Politics and for that matter the state, according to him was not an end, but a means that enabled men to make their lives better. An ideal state or political life is one in which men rule themselves. For Gandhiji there is no political power in the ideal state because in it there is no state. But as the ideal was not fully realized in life, Gandhiji contented himself with Thoreau's classical statement- that government was best which governed the least.

36. From the above passage Gandhiji would agree with which of the following statements:

- I. State owes its existence to violence.
- II. State represents violence in full form.
- III. State is not an end but a means to make people's life better.



IV. State should have centralized power to ensure good governance.

Select the correct answer using the code given below:

- (a) All of the above
- (b) 1, 2 and 3
- (c) 4 only
- (d) None of the above

37. Gandhiji contented himself with Thoreau's classical statement because:

- (a) They were friends.
- (b) State needs to centralize power to govern well.
- (c) Democratic government is the best.
- (d) Government should facilitate individuals' wellbeing with least interference.

38. From the above passage the following assumptions have been made:

I. More the power to the State more the progress of individuals.

II. Without State individuals can live better.

Which of the above assumptions are / is valid:

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

**Directions for (Questions 39 to 41):** Study the bar diagram given below to answer these questions.

A, B, C, D and E are 5 important cities. Three are industrial cities, two are port cities, one is a hill station and three cities have universities each. Every hill city has a university but has no port. D is not a port city, No port city has a university. B is a port city. Two industrial cities have universities and 'C' and 'D' are not industrial cities. The industrial cities with universities don't have ports & none of the industrial cities is a hill station. 'D' is a hill station and 'E' has a university.

39. Which city has industries as well as port but does not have a University?

- (a) A and D
- (b) D and B
- (c) B
- (d) C

40. Which city has neither hill station nor university nor Industries?

- (a) B
- (b) C
- (c) A
- (d) E

41. Which two cities have ports?

- (a) A and B
- (b) B and C
- (c) C and D
- (d) D and E

42. Akash speaks truth 3 out of 4 times and Vasu speaks truth 5 out of 6 times. What is the probability that they will contradict each other stating the same fact?

- (a)  $\frac{2}{3}$
- (b)  $\frac{1}{3}$
- (c)  $\frac{5}{6}$
- (d)  $\frac{1}{2}$

43. The number of ways in which a committee of 2 ladies and 3 gentlemen can be appointed from a group consisting of 6 ladies and 5 gentlemen, given that Mr. Hari refuses to serve in the committee if Mrs. Shanthi is a member, is

- (a) 80
- (b) 70
- (c) 160
- (d) 162

44. Which of the following conclusions follows based on the given statements?

**Statements:**

All towels are cloths.

Some pillows are towels.

No clothes are carpets.

**Conclusions:**

I. Some pillows are cloths.

II. No carpets are towels.

III. Some pillows are carpets

IV. Some clothes are towels.

(a) I, III and IV only follows.

(b) I, II and IV only follows.

(c) I and IV only follows.

(d) I and III only follows.

45. A test has 100 questions. There is two mark for a correct answer, while there is a negative penalty of one mark for wrong answer and 0.5 marks for unattended question. A student did not attempt 12 questions and secured net total of 68 marks. How many questions did he attempt?

(a) 45

(b) 48

(c) 54

(d) Cannot be determined

46. What is the least prime number by which 2800 should be multiplied so that the product may be a perfect square?

(a) 2

(b) 5

(c) 7

(d) 11

47. On Independence Day, chocolates were to be distributed amongst 300 children. But on that day, 50 students were absent and so, each child got one extra chocolate. How many chocolates were distributed?

(a) 1450

(b) 1700

(c) 1500

(d) 1650

**Directions for (Questions 48 to 52):** Study the bar diagram given below to answer these questions.

A cultural program is planned for Diwali holidays with events like Western Dance, Group singing, English play, Carnatic music, classical dance, instrument concert and stand up comedy from 20th October to 27th October.

(i) The program should start with Carnatic music.

(ii) 21 st October being a Sunday, should be a holiday.

(iii) English play should be on the previous day to western dance.

(iv) The program should end with instrument concert

(v) Classical dance should immediately after the holiday, group singing follows classical dance.

(vi) There should be a gap of one day between group singing & western dance and between English play and stand up comedy.

48. Which program is followed by English play?

(a) Western dance

(b) Carnatic music

(c) Classical dance

(d) Group singing

49. How many days gap between English play and classical dance?

(a) One

(b) Two

(c) Three

(d) Four

50. Which program immediately precedes Instrument concert?

(a) Group singing

(b) Western dance

(c) Classical dance

(d) Stand-up comedy

51. Which program will be on Tuesday?

(a) Instrument concert

(b) Western dance

(c) Group singing

(d) None of these

52. Which program will be scheduled 3 days before Western dance?

(a) Carnatic music

(b) Instrument concert

(c) Classical dance

(d) Group singing

53. An iron tank 5 m x 2 m x 14 m is always filled with water up to half of its height.

What surface area of the tank which is at a higher risk of corrosion?

- (a) 110 cu. m
- (b) 106 cu. m
- (c) 108 cu. m
- (d) 112 cu. m

54. In an annual day function, all the events are scheduled to occur at regular intervals of half an hour. Group singing began 26 minutes ago and Classical dance is the next event scheduled at 10.30. By how many minutes group singing started late?

- (a) 3 minutes
- (b) 4 minutes
- (c) 5 minutes
- (d) 6 minutes

55. Pointing to Kathir, Sabitha said, "His mother's brother is the father of my son Madhan." How is Kathir related to Sabitha's husband's sister's husband's mother?

- (a) Son
- (b) Grandson
- (c) Nephew
- (d) Cousin

56. A least number which should be added to 4196 so that it is divisible by 24, 50 and 105 is \_\_\_\_\_

- (a) 4
- (b) 5
- (c) 3
- (d) 6

57. Three people are running around a circular track which is 3600m. Their speed is 75m/s, 80m/s and 90 m/s respectively. After how many minutes will they all again meet at a starting point?

- (a) 12 minutes
- (b) 16 minutes
- (c) 18 minutes
- (d) 20 minutes

58. The average number of visitors to a Museum on every Monday is 96, whereas it is 156 on other days of the month. What will be the average number of visitors for the entire month if it has 30 days and begins on Monday?

- (a) 144
- (b) 145
- (c) 146
- (d) 147

59. A bag contains totally Rs.44 of 25p, 10p and 5p coins. For every two 25p coins there are three 10p & six 5p coins. How many 10 paise coins are there?

- (a) 110
- (b) 120
- (c) 130
- (d) 140

60. Pointing to a boy on the stage, Vidya said, "He is the only brother of the daughter of the wife of my husband." How is the boy on the stage related to Vidya's son's sister?

- (a) Brother
- (b) Husband
- (c) Cousin
- (d) Nephew

**Directions for the following 2 (two) items:**

Read the following passage and answer the items that follow. Your answer to the items should be based on the passage only.

### PASSAGE 1

The Supreme Court on Friday lambasted the Centre for withholding names recommended or reiterated by the collegium for judicial appointments, even saying that the government is using silence and inaction as "some sort of a device" to force worthy candidates and prominent lawyers to withdraw their consent.

The scathing five-page order comes even as the past few days have seen Law Minister Kiren Rijiju launch a relentless attack on the collegium system for lack of transparency. "In the elaborate procedure from taking inputs

from the government post recommendation from the collegium of the High Court, the Supreme Court collegium bestowing consideration on the names, there are enough checks and balances,” the order said. But the government’s tendency to inexplicably withhold names for months on end, without even an explanation, would see rule of law and justice suffer.

It said 10 other names reiterated by the collegium for appointment have been pending with the government, starting from September 4, 2021 to July 18, 2022.

In one case, the government has not budged though the collegium had reiterated the name thrice. In another, the candidate had withdrawn after a second reiteration from the collegium drew no response from the government. In yet another case, the candidate, Jaytosh Majumdar, whose appointment had been pending since September 2021, passed away recently.

The Supreme Court itself has seven judicial vacancies out of a sanctioned strength of 34 judges. As of November 1, the judicial vacancies in 25 High Courts number 335 out of a total sanctioned strength of 1,108 judges.

61. Which of the following statements best indicates the most serious implication of the above passage?

- (a) The duel between Judiciary and Executive is costing the people dear.
- (b) Not filling up the huge vacancies of judges in Supreme and High Courts is injustice to the people.
- (c) Justice delayed is Justice denied and Executive Delay is Injustice.
- (d) Either the Judiciary or Executive should step down from its high horse.

62. The following statements have been assumed based on the above passage:

I. Supreme Court Collegium has needed checks and balances

II. Law Minister seeks to wrest appointment of judges from Judiciary  
Which of the above assumption(s) is / are valid?

- (a) I only
- (b) II only
- (c) Both I and II
- (d) Neither I nor II

63. If the seventh day of a month is three days earlier than Monday, What day will it be on the 20th day of the month?

- (a) Thursday
- (b) Wednesday
- (c) Tuesday
- (d) Saturday

64. Sameer remembers that birthday of Sam is after Jan 19 but before Jan 24. But Ganesh remembers that it is between 17 and 21st Jan. If it was Tuesday on Jan 17, what is the day in which the common probable date for Sam’s birthday fall on?

- (a) Friday
- (b) Saturday
- (c) Thursday
- (d) Sunday

65. Mixture of liquid A and B with total capacity 300 liters contains 70% of liquid A. How many more liters of liquid B should be added so that the proportions of liquid A and B become equal?

- (a) 119 liters
- (b) 120 liters
- (c) 121 liters
- (d) 122 liters

66. When a certain amount is invested in a simple interest scheme, it increases by 40% in 4 years. What will be compound interest after 3 years on an amount of Rs. 12000, at the same interest rate, and annual compounding?

- (a) Rs. 3972
- (b) Rs. 3852
- (c) Rs. 3162
- (d) Rs. 3632

67. If 'we are reaching Delhi' means 'kiz kip kil kih',  
'Delhi is really beautiful' means 'kih kid kim kin',

'is akash reaching there' means 'kil kit kic kid' and  
'we really need akash' means 'kim kiw kit kip',

then how would you code 'akash is reaching delhi'?

- (a) kic kim kip kih
- (b) kid kin kip kih
- (c) kit kid kil kih
- (d) kip kim kil kih

68. In a certain code 'BEAD' is written as '7#94' and 'GREY' is written as '\$%#8'. How is 'READY' written in that code?
- (a) \$%497.
  - (b) %#948.
  - (c) 794\$%#.
  - (d) 847%\$#.

69. The Following series has at least two different characters. Find the missing number in the series. x\_yzzxx\_z\_xx\_zz
- (a) xyzy
  - (b) zzxy
  - (c) yxxz
  - (d) xyzx

70. In 24 hours, a boat can travel 288 km downstream. What is the speed of the boat in still water if it takes 72 hours to cover double distance in upstream?
- (a) 10 kmph
  - (b) 12 kmph
  - (c) 14 kmph
  - (d) 16 kmph

71. Speeds of Arjun and Sarath are in the ratio 7:2. What is the speed of Arjun if Sarath can cover a distance of 6 Km in 1 hour?
- (a) 20 kmph
  - (b) 21 kmph
  - (c) 22 kmph
  - (d) 23 kmph

72. Two bangles of radii 19 and 11 cm are placed as concentric circles. What is the area of the portion that is inside the outer bangle but outside the inner bangle?

- (a) 234π
- (b) 236π
- (c) 240π
- (d) 242π

### Directions for the following 3 (three) items:

Read the following passage and answer the items that follow. Your answer to the items should be based on the passage only.

### PASSAGE 2

With the 27 th edition of the Conference of Parties (COP) in Sharm El Sheikh nearing its final stages and efforts being ramped up to arrive at a conclusive agreement, a consortium of countries that includes India has jointly stated that carbon border taxes, that could result in market distortion and aggravate the trust deficit amongst parties, must be avoided. The European Union has proposed a policy — called the Carbon Border Adjustment Mechanism — to tax products such as cement and steel that are extremely carbon intensive, with effect from 2026.

BASIC, a group constituting Brazil, India, South Africa and China, and therefore large economies that are significantly dependent on coal, has for several years voiced common concerns and reiterated their right to use fossil fuel in the interim during their countries' eventual transformation to clean energy sources "Unilateral measures and discriminatory practices, such as carbon border taxes, that could result in market distortion and aggravate the trust deficit amongst Parties [signatory countries to the United Nations climate agreements], must be avoided. BASIC countries call for a united solidarity response by developing countries to any unfair shifting of responsibilities from developed to developing countries."

Their joint statement on Wednesday expressed "grave concern" that developed countries were still not showing leadership or responding with a matching progression of effort. Developed countries had "backtracked on finance and mitigation commitments and pledges" and there was a "significant

increase” in the consumption and production of fossil fuels in the past year by developed countries, their statement underlined, even as they continue to press developing countries to move away from the same resources. “Such double standards are incompatible with climate equity and justice.”

73. Which of the statements below best reflects the central thrust of the above passage?

- (a) Carbon Border Tax is a discriminatory practice according to BASIC.
- (b) BASIC objections to the Carbon Border Adjustment Mechanism alongside other grievances against developed countries.
- (c) Developed Countries double standards are incompatible with climate equity and justice is the conclusion of BASIC.
- (d) Unilateral measures and discriminatory practices could result in market distortion and aggravate the climate crisis.

74. With reference to the above passage the following assumptions have been made regarding Carbon Border Adjustment Mechanism:

- I. Aim to distort markets and build trade tariffs.
- II. Would reduce trading of extremely carbon intensive products.
- III. Reduce fossil fuel consumption around the world.
- IV. Attempt to put the burden on the developing nations to reduce carbon emissions.

Which of the above assumption(s) is/ are valid?

- (a) I, II, III and IV
- (b) I, II and III only
- (c) I, II and IV only
- (d) II and IV only

75. According to the above passage what is not a "grave concern" of BASIC:

- (a) Continued use of fossil fuel across the board.
- (b) Unilateral measures and discriminatory practices.
- (c) Leadership by developed countries in practice.
- (d) Backtracking on commitments.

**Directions for Questions 76 to 78:** Study the following information given below to answer these questions.

There are 7 movies M1, M2, M3, M4, M5, M6, and M7 is released in 7 different month January, February, March, April, June, August, and October. M1 is released in the month having less than 31 days but not in April. There are 3 movies released between M1 and M3. M2 is released in one of the months after M4. No movie is released between M2 and M4. M5 is released in one of the months before M7. M5 is not released in a month having maximum number of days. No Movie is released between M7 and M5.

76. Which movie is released in the month of March?

- (a) M6
- (b) M7
- (c) M1
- (d) M3

77. Which movie among the following is released between the months of June and October?

- (a) M4
- (b) M6
- (c) M7
- (d) M2

78. Which of the following statements is true?

- (a) M1 is released in the month of October.
- (b) M3 is released between March and June.
- (c) M6 is released in a month after M2
- (d) None is true

79. 6 years ago, the ratio of the ages of A and B is 7: 6 and A's age after 6 years is 40 years. Present age of C is 10 years more than one – sixth of B's present age. Find the ratio of present age of B and C?
- (a) 3:2
  - (b) 2:1
  - (c) 4:5
  - (d) 1:3
80. In a group of Lions and Crows the number of legs is 22 more than 2 times the number of heads. What is the number of Lions?
- (a) 9
  - (b) 11
  - (c) 13
  - (d) 15