



# VIDHVATH ACADEMY FOR COMPETITIVE EXAMS

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## FULL LENGTH TEST: VPT049 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

**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 1**

In their minority view, Justice Bhat and Chief Justice Lalit held that though quota on the basis of economic deprivation, destitution and poverty was “per se permissible/valid” and even “constitutionally infeasible”, the “othering” of socially and educationally disadvantaged classes, including the SC/ST/OBC/SEBC communities, on the ground that they already enjoy the benefits of a pre-existing 50% reservation on the basis of their caste and class origins, would amount to heaping injustice based on their past disability. He said such an exclusion was simply “Orwellian” as the government’s statistics itself showed that the “bulk of economic deprived section of the society belonged to SC/ST/SEBC/OBC”. He said the SCs make up 38% of the population, STs make up 48.4%, and OBCs constitute 13.86% of the 31.7 crore people living under the poverty line in the country. Forward castes or the unreserved category occupy only 5.85% of the Below Poverty Line (BPL) population. The petitioners had argued that the exclusion of SC/ST/SEBC/OBC had left only the “middle class” among the forward castes drawing less than Rs 8 lakh as annual family income to reap the benefits of the EWS quota. Justice Bhat said the exclusion from the EWS quota based on social or identity origins struck at the essence of the “Non-Discriminatory Rule” and destroyed the Equality Code of the Constitution. It amounted to a “hostile discrimination” of the poorest members of the society, who were already socially and educationally backward and subjected to caste discrimination. “The court for the first time in seven decades of the Republic has sanctioned an avowedly exclusionary and discriminatory principle,” he referred pointedly to the majority law which would become the law. “Our Constitution does not speak the language of

exclusion,” Justice Bhat underscored. He said the poorest of poor among SC/ST/OBC/SEBC had been kept out of EWS quota on the delusion that they benefit from the existing 50% reservation and were thus “somehow more fortunate”. The government, Justice Bhat said, believed that including SC/ST/OBC/SEBC members in the EWS quota would bestow them a “double benefit”. Existing reservation should not be seen as a “free pass to equal opportunity” for these backward classes, he noted, but as a reparative and compensatory mechanism to level the field for those crippled by social stigmatization.

1. What is constitutionally ‘infeasible’ from the above passage?
  - (a) The exclusion of the poorest of the poor among SC/ ST/OBC/ SEBC from EWS quota.
  - (b) Exclusion based on social or identity origins amounting to hostile discrimination.
  - (c) The reservation for economically weaker section of the society.
  - (d) ‘The Orwellian’ government statistics.
2. To whom does the ‘hostile discrimination’ referred to in the above passage?
  - (a) Poorest members of the society.
  - (b) The economically deprived from among the SC/ST/OBC/SEBC.
  - (c) The ‘somehow more fortunate’ people.
  - (d) Those who would get a ‘double benefit’.
3. According to the passage what is considered as reparative and compensatory mechanism to level the field for those crippled by social stigmatization?
  - (a) The ‘free pass to equal opportunity’.
  - (b) The ‘hostile discrimination’ of the poorest members of the society.
  - (c) The quota on the basis of economic deprivation, destitution and poverty.
  - (d) The existing reservation based on social or identity origins.

**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 2**

Greenhouse gas emissions keep growing. Global temperatures keep rising. And our planet is fast approaching tipping points that will make climate chaos irreversible," he said. "We are on a highway to climate hell with our foot on the accelerator."

4. What is the most important implication of the above passage?
  - (a) Emission of greenhouse gases needs to be decreased.
  - (b) High time serious action is taken to address and mitigate the climate change challenges.
  - (c) Reduce the speed on the highway to climate hell at the earliest.
  - (d) Take efforts to reduce the rising temperatures.
5. The number 206p21279q leaves the remainder 2 when divided by 11. If  $p = q + 3$ , then what is the value of  $p/q$ ?
  - (a) 4.5
  - (b) 3.5
  - (c) 2.5
  - (d) 1.5
6. There is a 117 digit number which is formed by linear arrangement of first 63 natural numbers. If this number is divided by 8, what remainder it leaves?
  - (a) 5
  - (b) 6
  - (c) 7
  - (d) 8
7. The places of a two-digit number are interchanged and subtracted with the original value. By what number is the resultant number always divisible?
  - (a) 7
  - (b) 9
  - (c) 11

(d) None of the above

8. One side wall of a room has its length and breadth in the ratio 3 : 4. If 4m is the smallest tape which can measure all the two dimensions, what would be the largest tape?
  - (a) 12
  - (b) 16
  - (c) 24
  - (d) 48

**Directions for Questions 9 to 11: Study the following information given below to answer these questions.**

There was a bike racing championship in which four people participated. The colour and brand of each of the bikes is different. Those colours are White, Black, Red and Brown and the brands are - Honda, Ducati, Kawasaki and Yamaha. The persons mentioned got four Prizes I, II, III and IV where I Prize is for the best performance in the race.

- (i) The colour of Robert's bike who finished in the fourth position is not Red.
- (ii) Yamaha, which is not white, got either first position or the last position.
- (iii) Charles's got one position ahead of Robert's but one position below the black bike.
- (iv) Peter's bike was positioned just above Kawasaki, but was just below the white bike.
- (v) Peter's bike is not Ducati. Martin, who is the friend of Peter, was also one of the participants in the race.

**9. Whose bike won the first Prize?**

- (a) Martin
- (b) Peter
- (c) Charles
- (d) Robert

**10. Which of the following depicts the colour of Robert's bike?**

- (a) White
- (b) Black
- (c) Red

(d) Brown

11. Which of the following statements is true?

- (a) Ducati is owned by Charles
- (b) The colour of Peter's bike is brown
- (c) Yamaha is owned by Peter
- (d) The colour of Martin's bike is White

12. Find the wrong term in the series

11, 9, 13, 16, 17, 21, 19, 36, 23

- (a) 19
- (b) 21
- (c) 16
- (d) 25

13. In a theatre, the ratio of the ticket price for balcony and first class ticket is 6 : 4. The ratio of people who are watching movie in balcony and first class is 1 : 30. If Rs. 2100 was sales made on that day, what would be the amount collected from balcony ticket?

- (a) 100
- (b) 150
- (c) 200
- (d) 250

14. Sathish and Vishnu together have Rs. 1210. If  $\frac{4}{15}$  of Sathish's amount is equal to  $\frac{2}{5}$  of Vishnu's amount, how much amount does Vishnu have?

- (a) Rs. 460
- (b) Rs. 484
- (c) Rs. 550
- (d) Rs. 664

15. In a school, the enrolment ratio for sixth, seventh and eighth standard are respectively in the ratio 5 : 7 : 8. The management decided to increase the number of seats by 40%, 50% and 75% respectively. What will be the new ratio after the number of seats is increased?

- (a) 6 : 7 : 8
- (b) 5 : 6 : 9
- (c) 2 : 3 : 4
- (d) 2 : 5 : 8

16. Saranya in her opinion says that her weight is greater than 55 kg but less than 62 kg. Her mother does not agree and she thinks that Saranya's weight is greater than 50 kg but less than 60 kg. Her brother's view is that her weight can't be greater than 57 kg. If all of them are correct in their estimation, what is the average of different probable weights of Saranya? (Given: Her weight must be in integer in kg.)

- (a) 52.5
- (b) 54.5
- (c) 56.5
- (d) Cannot be determined

17. Vijay is facing west. He turns  $45^\circ$  in the anticlockwise direction and then another  $180^\circ$  in the same direction and then  $270^\circ$  in the clockwise direction. Which direction is he facing now?

- (a) North East
- (b) North West
- (c) South East
- (d) South West

18. Six employees A, B, C, D, E and F are sitting around a round-table table for an emergency meeting and are facing one another. A is second to the left of F. B is neighbour of C and D. E is second to the left of D. Which one is sitting opposite to A?

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

**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

In recent years, the phenomenon of eliminating one's thought adversaries has marked a sharp rise. In the last few years, numerous mediapersons, writers, and thinkers have been put to death by violent

means. Narendra Dabholkar was killed in Pune in 2013, Comrade Govind Pansare in Kolhapur in early 2015, M.M.Kalburgi in Dharwad later that year, and journalist Gauri Lankesh in Bengaluru in 2017. All four were advocates of rationality, truth, and communal harmony.

19. The following assumptions have been drawn from the above passage:

- I. When thought adversaries are eliminated their ideas get buried.
- II. Violent killing of media persons, writers and thinkers reflects intellectual bankruptcy.

Which of the above assumptions are/ is valid?

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

20. What are the valid inferences for a democratic nation like India from the above passage?

- I. Supporters of bigotry and superstition are not in a position to discuss and debate opposite view points.
- II. Media persons, writers and thinkers should not ruffle feathers if they value their lives.
- III. Advocates of rationality, truth and communal harmony have been silenced for good.
- IV. Executive and Judiciary needs to take appropriate measures to ensure freedom of speech is not silenced by the fear of gun.

Select the correct answer using the code below

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

**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 2

The Global Hunger Index (GHI) report of 2022, published in mid October, shows India's place to have fallen to 107 from the previous year's 101, out of 121 countries. Once again, the Government of India has questioned the survey's methodology and sample size and accused the authors, Concern Worldwide and Welthungerhilfe, of bias. In a statement almost identical to that of last year, the Women and Child Development Ministry alleged that a consistent effort was on to tarnish India's image.

GHI calculations are based on four indicators: undernourishment in adult and child populations, under-five mortality, stunting (low height for age), and wasting

21. With reference to the above passage, which of the following could be relevant, practical and positive suggestions for India?

- I. Instead of rebuttals and questioning the report, need to analyse and introspect as to why the Global Hunger Index is getting worse year over year.
- II. Govt of India needs to take up with UN and FAO why Concern Worldwide and Welthungerhilfe are focussed on tarnishing the India's image.
- III. Focus on the causes of hunger and measures to mitigate the same based on proper survey and accurate inputs.
- IV. Collate and publish collated data relevant to the four indicators of Global Hunger Index proactively and periodically.
- V. Not to bother about such reports as they may have their own biases.

Select the correct answer using the code below:

- (a) All of the above.
- (b) I, III and IV only.
- (c) II, III and V only.
- (d) I, II and V only.

**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 3**

The Sarkaria Commission thought that if the appointment was made in consultation with the Chief Minister, there would be smooth functioning and better relationships. But the Governor has to make independent decisions, whether it's the question of deciding a government, the numbers, or the vote of confidence. The Governor has to maybe at times go against the will of the Chief Minister. Therefore, to say that the Chief Minister must approve the appointment of Governors is not correct. I do feel [there should be] general consultation. The opinion of the Chief Minister would go a long way in helping make the functioning of the Governor in a State more effective and maybe more conducive to the interests of the State.

22. Which one of the following statements best reflects the opinion of the author of the above passage?

- (a) Sarkaria Commission is apt in considering appointment of Governors be made in consultation with Chief Ministers for smooth functioning and better relationships.
- (b) View of Chief Ministers in appointment of Governors may help in the latter's functioning and also for the wellness of the State.
- (c) Since Governors have to take independent decisions to say that the Chief Minister must approve the appointment of Governors is not correct.
- (d) The Governor's appointment should continue as before due to the nature of his functioning.

23. Based on the above passage the following assumptions have been made:

- I. Appointment of Governors as mentioned in the Constitution has stood

the test of time and hence needs no change.

II. Appointment of Governors in consultation with Chief Ministers is likely to lead to better relationship between both.

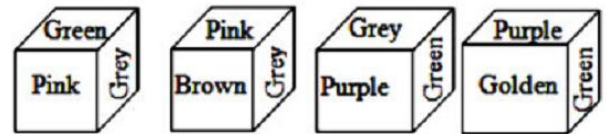
III. It is not the methodology but the Character and Commitment of the Governor to the Constitution of India that would ensure smooth and effective governance.

Based on the opinions shared in the passage which assumption(s) is/ are the most logical and practical assumption?

Select the correct answer using the code below:

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

24. Refer to the following four positions of the dice and find out the color which is opposite the face Brown?



- (a) Pink
- (b) Purple
- (c) Green
- (d) Grey

25. During a summer camp, 160 students take at least one of the three types of sports such as Cricket, Basketball and Badminton. 54 students took Cricket, 86 students took basketball and 61 students took Badminton. If 8 students go for all the three sports, how many take exactly two sports?

- (a) 22
- (b) 25
- (c) 31
- (d) 27

26. Radha walked 50 m towards north then turned left and walked 68 m. She then turned to south and walked 22 m then

she took a left turn and walked 44 m. After that she turned right and walked 18 m and finally she turned left to and walked 48 m. What is shortest distance between starting and end point and in which direction Radha from the starting point?

- (a) 25m, Northwest
- (b) 26m, Southwest
- (c) 26 m, Northeast
- (d) 25 m, Southeast

27. A pot contains contains Liquid 1 and Liquid 2 mixture in the ratio 11 : 5 respectively. The capacity of the pot is 208 litres and it is completely filled. '8x' litres of mixture is taken out of the pot and replaced with '3x - 4' litres of Liquid 2 so that the ratio of Liquid 1 to Liquid 2 in the pot becomes 4 : 3 respectively. Find the difference between the final quantities of Liquid 1 and Liquid 2 in the pot.

- (a) 20 litres.
- (b) 22 litres.
- (c) 24 litres.
- (d) 26 litres.

28. Two cars starts from points P and Q respectively. When both of them travel in the same direction, they meet in 6 hrs and when they travel in opposite direction they meet in 2 hrs, If the distance between P and Q is 60m, what is the speed of the car with greater speed?

- (a) 40
- (b) 30
- (c) 20
- (d) 10

29. In an exam Hrithik scored 80 marks out of 150 in Civics and 95 marks out of 120 in Economics. If he wants to score 70% marks in 3 subjects, find the minimum marks he should score in Geography out of 100.

- (a) 83
- (b) 84
- (c) 85

(d) 86

### 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 3

White collar crimes involvement of thousands of crores of rupees offered as loans by banks are highly harmful to society for they are committed by well-educated and influential people who are otherwise expected to set a moral example and behave responsibly, the Madras High Court said.

30. With references to the above passage the following assumptions have been made:

I. Blue collar crimes are not highly harmful to society.

II. Severe punishment for white collar crimes will have an immense salutary impact on the ethics of the society.

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

31. If 'MASTER' is coded as '1214118201921251719', then 'BIFURCATE' is coded as?

- (a) 1381574411719241192125
- (b) 1318574411719241192122
- (c) 1318564411719241292124
- (d) 1381564411619241192123

32. If 'sunshine' is called 'night', 'night' is called 'dusk', 'dusk' is called 'morning', 'morning' is called 'afternoon', and 'afternoon' is called 'dawn', when do we eat breakfast?

- (a) Night
- (b) Afternoon
- (c) Morning
- (d) Dawn



**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**

Social media is now the public square, and quirky two words prefixed with a hashtag can make a difference almost instantly. Some go viral and stay longer than others. At times, they raise an important yet overlooked aspect of today's work practices. The recent two words trending on social media, more so on TikTok, is "Quiet quitting". The phrase has generated millions of views on the short-video streaming platform. Those promoting the idea appear to be young workers who have rejected the idea of going the extra mile at work. This group seeks to make people take time out of work and do something outside of office. This trend, in a way, shows the impact of hybrid or work from home-based office work culture that has permeated all organisations in the last two years. During this time, a growing number of Gen Z and millennials have grown tired of not being recognised or compensated for putting in extra hours. Now, they want to end the burnout, and are looking to focus on work-life balance. Their online movement centres around self-preservation and doing what they are paid to do.

33. Which statement below reflects the most important message of the above passage?
- Today social media is the public square and quirky two words with a hashtag like 'Quiet quitting' can make a difference almost instantly.
  - Young workers want to end burnout but focus instead on work - life balance based on hard lessons learnt the last two years.
  - 'Quiet quitting' is the latest two words trending on social media.
  - Gen Z and Millennials do not want to walk the extra mile as they have grown tired of hard work.

34. Based on the above passage the following assumptions have been drawn:

I. Gen Z and Millennials would not have thought of Work - Life Balance if they had been compensated for their extra work during the hybrid/ work from home culture of last two years.

II. Social media has taken the place of conservative media / TV for faster dissemination of messages amongst peer groups.

Which of the above assumptions is /are valid:

- I only
- II only
- Both I and II
- Neither I nor II

**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 2**

While speaking at the ongoing COP27 climate summit, scientists from the Global Carbon Project warned that harmful carbon dioxide emissions from fossil fuels would rise 1% more this year, reaching an all-time high. Scientists added that emissions declined to - 5.2% in 2020 due to restrictions imposed during the COVID pandemic. However, emissions increased by 5.6% in 2021.

35. With reference to the above passage the following assumptions have been made:

I. Nothing much can be done about fossil fuel emissions as economy of most nations run on fossil fuels.

II. Pandemics like Covid checks economic growth and thus carbon emissions.

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

- I only
- II only
- Both I and II
- Neither I nor II



36. Company A from 2018 to 2022 has increase and decrease in their production rate. In third and fourth year, there is a decrease in production by 10% and increase in production by 15% respectively. For first two consecutive years there is an increase in production of 15%. What will be the increase in production in the year 2022?

- (a) 36.5% increase
- (b) 36.6% increase
- (c) 36.7% increase
- (d) 36.8% increase

37. Sudheer sold a book with 10% loss on the cost price. He bought the book at a discount of 20% on the quoted price. What would have been the percentage loss if he had bought it at the quoted price?

- (a) 18%
- (b) 28%
- (c) 16%
- (d) Data inadequate

38. In a stationery shop the cost price of a calculator and a parker pen together is Rs 880. If the parker pen costs 20% more than the calculator, then find the cost price of the parker pen.

- (a) Rs 460
- (b) Rs 440
- (c) Rs 520
- (d) Rs 480

39. Veera invested Rs 6100 partly in two Schemes. First scheme is at compound interest (compounded annually) for 2 years and second Scheme is at simple interest at for 4 years. Both the schemes have same interest rate of 10% and earn equal interests. How much was invested in the first Scheme?

- (a) Rs 3750
- (b) Rs 4500
- (c) Rs 4000
- (d) Rs 3250

40. A train takes 7 hours to reach from Ernakulam to Trivandrum. The train

covers  $\frac{1}{4}$  th of the distance at 10 km/hour and the remaining distance at 12 km/hour. The distance, in kilometer, between Ernakulam and Trivandrum is:

- (a) 70 km
- (b) 72 km
- (c) 80 km
- (d) 90 km

### 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 1

Chief Justice of India D.Y. Chandrachud said the structure of legal profession is "feudal, patriarchal and not accommodating of women" and there is a need to have a democratised and merit-based process for entry of more women and marginalised sections of society. "One thing which we need to understand is that the judiciary has a feeding pool. The feeding pool which determines who enters the judiciary is largely dependent on the structure of the legal profession."

"So when we talk of having more women in the judiciary, it's equally necessary for us to lay building blocks for the future by creating access to women now. The first step is entering the chambers of senior lawyers which is an old boys club," he said.

"How do you gain access to chambers by tapping your connections? Until we have a democratised and merit-based access to the entry point in the legal profession we will not have more women and will not have more people belonging to marginalised sections," he said.

He said the live streaming of court proceedings was a new experiment that gave an insight into what technology can do to transform the legal system and said proceedings of high courts and district judiciary should also be live streamed.

"One of the greatest dangers in a Constitutional democracy is the danger of being opaque. When you open up your

process you generate a degree of accountability, transparency and generate a sense of responsiveness to the needs of the citizens," he said.

"So the question is should a Supreme Court judge in which the country has invested so much be dealing with small cases like pension and maintenance. My answer is yes because that is indeed the role of the Supreme Court," he said.

Mr. Chandrachud said the ability of courts to thrive as a judicial institution in a democracy lies in the confidence that it generates in the minds of the people.

41. Which of the following statements best reflect the critical message of the above passage?

- (a) The live streaming of the court proceedings has made the legal system more transparent.
- (b) The ability of the courts to thrive as a judicial institution in a democracy lies in the perception that it generates in the minds of the people.
- (c) Legal system needs to be inclusive in entry and structure, transparent and accountable in delivery, meeting needs of justice of people across the board.
- (d) Need to have a democratized and merit based process for entry of more women and marginalized sections of society into the legal profession.

42. According to the above passage which of the following best reflect what is wrong with the present legal structure?

- (a) The Old Boys Club.
- (b) The Feeding Pool.
- (c) The Opaqueness.
- (d) The Pending cases increased by small cases like pension and maintenance.

43. Which of the following statements do not contribute for courts to thrive as a judicial institution according to the above passage?

- I. The confidence the courts generates in the minds of the people.

II. The feudal and patriarchal structure not accommodating of women.

III. The live streaming of court proceedings.

IV. The chambers of senior lawyers which acts like an old boys club.

Select the correct answer using the following code:

- (a) All of the above
- (b) I, II and III
- (c) II and IV
- (d) III and IV

**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 2

The CJI said judges often come across as oldfashioned because of black gowns and the imposing regalia. "When you combine that with a sonorous voice and legal language it can be a heady combination for utter boredom. But to borrow that song by Doris Day and Frank Sinatra - 'We are among the very young at heart'," he said.

44. With reference to the above passage the following assumptions have been made:

- I. Though the attire, voice and language may not be of the times, judges in general are contemporary in thought and ruling.
- II. Being broadminded helps judges to keep up with the times.

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

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

45. A, B and C are working together. All of them go to office together with speeds in the ratio 5 : 4 : 3. If in total they take 94 minutes (sum of the individual time taken) to cover the individual distance(which is same for all), then find the time taken by B to cover his distance.

- (a) 30 min.
- (b) 48 min.
- (c) 24 min.
- (d) 40 min.

46. Saravanan was hired by a company to complete a work and he can do the work in 25 days. Saravanan was able to work only for 5 days and after that another man Prabhakar was hired and he completed the work in 20 days. If Saravanan and Prabhakar work together, in how many days they will complete the work?

- (a)  $25/2$  days
- (b)  $23/2$  days
- (c)  $21/2$  days
- (d) None of the above

47. Thara can complete a job in 5 days. Thara is twice as fast as Meena while Meena is thrice as fast as Nisha. If all of them work together, in how many days would the job get completed?

- (a) 5 days
- (b) 9 days
- (c) 12 days
- (d) 3 days

48. A rectangular canvas has length and breadth in the ratio 5 : 4. That canvas is used to build up a conical of height 48 cm and base perimeter 88 cm. If length of the canvas is equal to the slant height of the tent, what is the area (in  $\text{cm}^2$ ) of the rectangle?

- (a) 2250
- (b) 1800
- (c) 2040
- (d) 2000

49. Pointing to a girl, Meera said, "Her father is the husband of my father's only daughter who doesn't have any brothers". How is Meera related to girl's father's mother?

- (a) Mother
- (b) Daughter
- (c) Aunt

(d) Daughter in Law

50. Sukriti was born on 5th October 2022. Mrudula was born seven days before Sukriti. The day of Independence day fell on Sunday. Which day was Mrudula born?

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

#### 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

As neighbours, it is natural for China and India to have some differences but the focus should be to seek common ground for development while resolving the pending issues through dialogue, outgoing Chinese Ambassador to India Sun Weidong said on Tuesday.

51. What is the main thrust of the passage?

- (a) Diplomacy and Development are important between India and China.
- (b) Both countries should move ahead focusing on issues like trade while keeping issues like border disputes pending for talks.
- (c) Natural to have differences as neighbours.
- (d) China is interested now in dialogue rather than confrontation.

#### Directions for the following 4 (four) 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

Economic science has dominated public policy since the 20th century. Debates have raged between "Keynesian" economists and "Friedman" economists: between "welfarists" who see the need for a government hand in

the economy and “monetarists” who want governments out of the way to let private entrepreneurs loose and let an “invisible hand” produce good outcomes for all. Both sides agree that growth in GDP – the size of the economy measured in money terms – is essential. Far-sighted systems thinkers in the Club of Rome gave a wake-up call in 1972. They showed that pursuit of GDP growth was destroying the earth’s capacity to renew itself and provide resources for unbridled economic growth. They introduced the health of the planet into calculations of profit and growth. Meanwhile, economists continue to treat the natural environment as external to the economy. Pleas by communities to protect it are dismissed as impediments to “ease of doing business” and GDP growth.

By the millennium’s end, advocates of unbridled private enterprise had prevailed. Needs of citizens who earn their livelihoods by work, not investments of money, were relegated in national economic policies wherever the “Thatcher-Reagan-Chicago” model of neoliberal economics prevailed. The 2008 global financial crisis revealed the fragility of insufficiently regulated markets. Governments of the G7 (later G20) collaborated to stabilize the financial system. They bailed out the “too large to fail” institutions while millions of common citizens, who lost homes and livelihoods, were barely compensated. In fact, some solutions to stabilize the the global financial system, such as the austerity package imposed on Greece, harmed common citizens even further.

While the ideology of “minimum government”, with balanced budgets and low inflation has continued, waves of protest have erupted around the world. Citizens complain that the global financial system is unfair. It protects the interests of large corporations and the wealthiest people while common citizens fall further behind. Demands to include the needs of ‘People’ in economic policy are becoming louder. The

“3P” slogan – People, Planet, and Profit – demands a paradigm shift in economics.

52. As per the above passage what were not the consequences of 2008 global financial crisis?

- I. Bailing out ‘too large to fail’ institutions by governments.
  - II. Millions of common citizens who lost homes and livelihoods were compensated.
  - III. Neo-liberal economics continued to prevail.
  - IV. Global financial systems became fair.
- Select the correct answer giving the code below.
- (a) I, II, III and IV only
  - (b) I, III and IV only
  - (c) III and IV only
  - (d) II and IV only

53. The wake up call given in the club of Rome in 1972 warns of which of the following issues in the above passage?

- I. Size of the economy measured in money terms alone.
  - II. Ease of doing business and GDP growth is the focus.
  - III. “Thatcher – Reagan – Chicago” model of economics.
  - IV. Minimum governance and unbridled private enterprise.
- Select the right answer using the code below :
- (a) All of the above
  - (b) None of the above
  - (c) I, II and IV only
  - (d) III and IV only

54. The ‘invisible hand’ mentioned in the above passage does not support which of the following?

- (a) ‘Welfarists’
- (b) Minimum governance.
- (c) ‘Monetarists’
- (d) Unbridled private enterprise.

55. The author of the passage tends to support which of the following statements?

I. People are not just numbers nor merely resources for economy.

II. The 3 P slogan of People, Planets and Profit.

III. Needs of citizens who earn their livelihoods by work not investments of money.

IV. Free market capitalism.

Select the right answer using the code below:

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

56. What is the difference between the angles made by the minute and hour hands of a clock when the time is 3:12 pm and 7:12 pm?

- (a) 80 degree
- (b) 100 degree
- (c) 120 degree
- (d) 140 degree

57. If  $X + Y$  means X is the brother of Y;  $X - Y$  means X is the sister of Y and  $X * Y$  means X is the father of Y. Which of the following means that J is the son of K?

- (a)  $K - N * J + F$
- (b)  $F - J + N * K$
- (c)  $N + K - F * J$
- (d)  $K * N - J + F$

58. Pointing to a man in a photo album, a woman said, "He is the son of the daughter of my uncle's father." How is the man in the photo album related to the woman?

- (a) Brother
- (b) Nephew
- (c) Uncle
- (d) Son-in-law

59. E, F, G, H, I and J are sitting in a row, waiting to be photographed. I and J are in the centre. E and F are at the ends. G is sitting to the left of E. Who is to the right of F?

- (a) E

(b) H

(c) I

(d) J

60. The ratio of giraffes to monkeys at a certain zoo is 4:7. How many giraffes are there if the difference between both the animals is 63?

- (a) 147
- (b) 84
- (c) 21
- (d) 42

**Directions for Questions 61 to 63: Study the information given below to answer these questions**

In a certain team, there are 15 basketball players and 25 baseball players. The total number of players is 32 and everyone plays at least one sport.

61. How many players play only one sport?

- (a) 20
- (b) 40
- (c) 17
- (d) 24

62. How many players play only basketball?

- (a) 17
- (b) 7
- (c) 24
- (d) 8

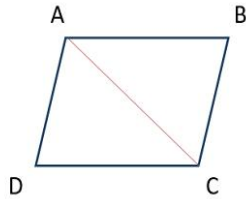
63. How many players play both basketball and baseball?

- (a) 24
- (b) 8
- (c) 17
- (d) 7

64. If Jaideep is ranked 15th from the top in his class, then what is his rank from the bottom if there are 55 students in the class?

- (a) 39th
- (b) 40th
- (c) 41 st
- (d) 42nd

65. In the following parallelogram ABCD, the area of triangle ABC is 44 cm<sup>2</sup>. What will be the area of triangle ACD?



- (a) 22 sq.cm  
(b) 33 sq.cm  
(c) 44 sq.cm  
(d) 55 sq.cm
66. Sanjay runs at a speed of 15 m/s, while Ajay runs at a speed of 13 m/s in a middle-distance race. If both of them start running at the same time and Sanjay completes the race in exactly 2 minutes and 10 seconds, then how much extra time will Ajay need to run the remaining distance?  
(a) 20 seconds  
(b) 25 seconds  
(c) 15 seconds  
(d) 30 seconds
67. What is the value of the 43rd number after the decimal point when 9 is divided by 11?  
(a) 1  
(b) 2  
(c) 8  
(d) 9

**Directions for Questions 68 to 71: Study the information given below to answer these questions**

Aman, Bhuvan, Chandan, Divya, Esha, Falguni, Gautam and Harini are sitting round the circle and are facing the centre. We also know that Aman is second to the right of Esha who is the neighbour of Chandan and Gautam. Divya is not the neighbour of Aman. Gautam is the neighbour of Falguni. Bhuvan is not between Divya and Harini. Harini is not between Falguni and Divya.

68. Which two of the following are not neighbours?  
(a) Chandan - Gautam  
(b) Falguni - Gautam  
(c) Chandan - Aman  
(d) Bhuvan - Harini
69. Which one is immediate right to Gautam?  
(a) Aman  
(b) Falguni  
(c) Chandan  
(d) Esha
70. Which of the following is correct?  
(a) Aman is to the immediate right of Bhuvan  
(b) Chandan is between Falguni and Gautam  
(c) Bhuvan is to the immediate left of Harini  
(d) Falguni is between Harini and Divya
71. What is the position of Divya?  
(a) Between Falguni and Gautam  
(b) Second to the right of Aman  
(c) To the immediate right of Harini  
(d) Insufficient information
72. In an examination, 50% of the candidates failed in English, 40% failed in Hindi and 15% failed in both the subjects. The percentage of candidates who passed in both English and Hindi is  
(a) 20%  
(b) 25%  
(c) 60%  
(d) 75%
73. P, Q, R and S are four males. P is the eldest in the group but he is not the poorest, R is the richest but not the eldest, Q is elder than S but he is not elder than P or R, P is richer than Q but he is not richer than S. How the four persons can be arranged in decreasing order of their age and money?  
(a) PQRS, RPSQ  
(b) PRQS, RSPQ

- (c) PRQS, RSQP  
(d) PRSQ, RSPQ
74. If there are 51 marbles in a jar wherein there are 50 white marbles and 1 black marble, then in how many ways can two marbles be selected at random so that at least one of the marbles is white?  
(a) 2550  
(b) 1275  
(c) 1000  
(d) 1200
75. 20 people go for a corporate lunch and pay a bill of Rs. 22,400 including 12% GST. What was the total bill amount without GST?  
(a) Rs. 18,000  
(b) Rs. 20,000  
(c) Rs. 21,000  
(d) Rs. 22,000
76. The minute hand of a clock faces east at 3:00 pm. If the clock is rotated 90 degree clock-wise, then in what direction will the minute hand be when the time is 6:00 pm?  
(a) North  
(b) South  
(c) East  
(d) West
77. In how many ways can the letters of the word BOTTLE be re-arranged?  
(a) 120  
(b) 720  
(c) 360  
(d) 180
78. The average age of 25 students is 25 years. If the average age increases by 0.5 years by the addition of one extra student, then what is the age of the new student?  
(a) 36 years  
(b) 37 years  
(c) 38 years  
(d) 39 years
79. What will be the next term in the following series: 9, 13.5, 20.25, \_\_\_\_?  
(a) 25.5  
(b) 30.25  
(c) 26.75  
(d) 30.375
80. A bag has 10 bats and 3 balls, how many bats must be added to make the ratio of bats to balls equal to 4 : 1?  
(a) 1  
(b) 2  
(c) 3  
(d) 4