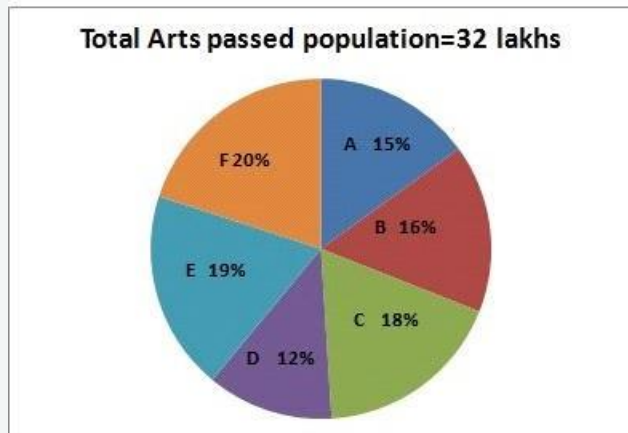
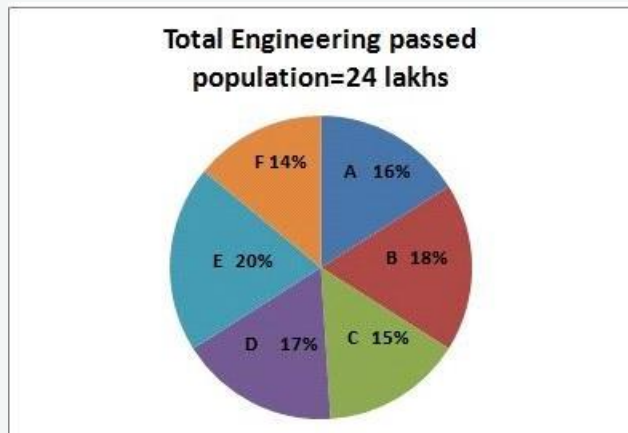


# INFOSYS ON-CAMPUS EXAM PAPER – 12<sup>th</sup> July 2021

## Section I: Arithmetic reasoning & Analytical thinking

Direction for the questions 1 to 5:

Study the following pie-charts carefully and answer the questions given below them.  
Engineering and Arts passed population details from different states of a country



Male-Female Ratio

Male-Female Ratio				
State	Engineering		Arts	
	Male	Female	Male	Female
A	7	5	7	9
B	5	3	3	5
C	5	4	4	5
D	9	8	5	7
E	9	7	9	10
F	4	3	3	2

- What is the difference between engineering passed male population and arts passed male population of state A?  
a. 24000    b. 14000    c. 28000    d. 36000
- What is the ratio of Engineering passed female population of state E to arts Arts passed female population of state D?  
a. 7:5    b. 5:7    c. 16:15    d. 15:16
- Total Engineering passed female population of state C is what % of the total Arts passed female population of that state?  
a. 40    b. 62.5    c. 50    d. 52.5
- Total Arts passed male population from state C is what percent of the total Arts passed population from all states together?  
a. 8%    b. 12%    c. 11%    d. 9%
- What is the ratio of total Engineering passed male population of state E to total Arts passed female population of that state?  
a. 28:35    b. 35:28    c. 32:45    d. None

**Direction for the questions 6 to 10:**

In each of the following questions there are three statements which are followed by three or four conclusions. Choose the conclusions which logically follow from the given statements.

**6. Statements:**

Some flowers are roses.

Some roses are glasses. All glasses are sticks. **Conclusions:**

- Some Sticks are roses.
- Some glasses are flowers.

III. Some sticks are flowers.

**7. Statements:**

Some towels are soaps. All soaps are balls. Some balls are bats.

**Conclusions:**

- I. Some towels are bats. II. All soaps are towels  
III. Some bats are soaps.  
a. Only II follows                      b. Only I follows  
c. Only I and II follow              d. None of these

**8. Statements:**

Some windows are doors.

Some doors are chairs. Some chairs are cots. **Conclusions:**

- I. Some cots are doors.  
II. Some chairs are windows. III. No cot is door.  
a. Only II follows                      b. Only III follows c. Either I or III follows              d. None of these

**9. Statements:**

All trees are garlands. All garlands are forests. All forests are stones.

**Conclusions:**

- I. Some stones are garlands. II. All garlands are stones.  
III. Some forests are trees.  
a. Only I and II follows              b. Only I and III follows  
c. Only II follows                      d. All follows

10. 10.

**Statements:**

All books are leaves.

Some leaves are jungles.

No jungle is box.

**Conclusions:**

- I. Some jungles are books.  
II. If No book is box.  
III. Some leaves are boxes.  
  
a. Only II follows  
b. Only III follows  
c. Either I or III follows  
d. None of these

**Directions for the questions 11 to 15:**

Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

- (a) If the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the questions.
- (b) If the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the questions.
- (c) If the data in statement I alone or in statement II alone is sufficient to answer the question.
- (d) If the data in both the statements I and II are not sufficient to answer the question.
- (e) If the data in both the statements I and II together are necessary to answer the question.

11. The ages of Anu and Suraj are in the ratio of 6:5 respectively. What is the age of Anu?

Statements:

- I. The ages of Anu and Sanjoy are in the ratio of 10:7.
- II. After 5 years the ratio Anu's and Sanjoy's ages will be 7:6.

12. What is the three digit number?

Statements:

- I. Three-fifth of that number is less by 90 than of that number.
- II. One-fourth of that number is 25% of that number.

13. In how many days can 14 men complete a piece of work?

Statements:

- I. 18 women can complete the same piece of work in 24 days.
- II. 28 children can complete the same piece of work in 56 days.

14. What is the salary of A, in a group of A, B, C, D and E, whose average salary is Rs.65780?

Statements:

- I. Total of the salary of B and C is Rs.88545.
- II. Total of the salary of D and E is Rs.59020.

15. What is the profit earned by selling a watch for Rs.15675? Statements:

- I. The cost price of 5 such watches is equal to selling price of 4 such watches.
- II. 25% profit is earned by selling each watch.

## Section II: Mathematical critical reasoning & Logical reasoning

**Directions for questions 16 to 17:** Refer to the following information to answer the questions that follow.

7 Managers are sitting around a conference table.

P, R, S, T, U, V and W are these Managers and they have grouped to discuss an impending meeting.

P is next to both T and U.

S sits on the immediate right of U.

There is one person sitting between S and W but he is not V.

16. Who are the neighbours of R?

- a. S and V
- b. T and V
- c. S and W
- d. W and T

17. Which of the following pairs does not sit adjacent to each other?

- a. WT
- b. UP
- c. VT
- d. SR

18. How many such pairs of letters are there in the word TEMPORARY which have as many letters between them in the word as in the English alphabet?

- a. 2
- b. 5
- c. 4
- d. 3

19. 12 buckets of water fill a tank when the capacity of each bucket is 13.5 litres. How many buckets will be needed to fill the same tank, if the capacity of each bucket is 9 litres?

- a. 18
- b. 20
- c. 16
- d. Cannot be determined

20. HOW + MUCH = POWER. Find the value of P + O + W + E + R.

- a. 12
- b. 14
- c. 16
- d. 10

21. BANANA + GUAVA = ORANGE.

Find the value of O + R + A + N + G + E ?

- a. 12
- b. 14
- c. 16
- d. 10

22. Find the missing number:

4, 5, 12, 39, 160, 805, ?

- a. 4836
- b. 3648
- c. 4854
- d. 4638

23. Find the odd man out in the series.

2, 6, 30, 64, 630

- a. 30
- b. 64
- c. 630
- d. 6

24. In a sale, a perfume is available at a discount of 20% on the selling price. If the perfume's discounted selling price is Rs.3675.40, what was the original selling price of the perfume (in RS.)?
- a. 4324                      b. 4386.45  
c. 4594.25                  d. None
25. Class P has 30 students of which 20 like Music. In class Q, 10 students like Music. Find the number of students in Class Q if the average number of students who like mathematics in a class is 16.
- a. 22              b. 20              c. 24              d. 25

## Verbal Ability:

**Directions for questions 26 to 30:** Read the given passage and answer the questions that follow.

### PASSAGE

Woodrow Wilson was referring to the liberal idea of the economic market when he said that the free enterprise system is the most efficient economic system. Maximum freedom means maximum productiveness; our “openness” is to be the measure of our stability. Fascination with this ideal has made Americans defy the “Old World” categories of settled possessiveness *versus* unsettling deprivation, the cupidity of retention *versus* the cupidity of seizure, a “status quo” defended or attacked. The United States, it was believed, had no *status quo ante*. Our only “station” was the turning of a stationary wheel, spinning faster and faster. We did not base our system on property but opportunity--which meant we based it not on stability but on mobility. The more things changed, that is, the more rapidly the wheel turned, the steadier we would be. The conventional picture of class politics is composed of the haves, who want stability to keep what they have, and the have-nots, who want a touch of instability and change in which to scramble for the things they have not. But Americans imagined a condition in which speculators, self-makers, runners are always using the new opportunities given by our land. These economic leaders (front-runners) would thus be mainly agents of change. The nonstarters were considered the ones who wanted stability, a strong referee to give them some position in the race, a regulative hand to calm manic speculation; an authority that can call things to a halt, begin things again from compensatorily staggered “starting lines.” “Reform” in America has been sterile because it can imagine no change except through the extension of this metaphor of a race, wider inclusion of competitors, “a piece of the action,” as it were, for the disenfranchised. There is no attempt to call off the race. Since our only stability is change, America seems not to honor the quiet work that achieves social interdependence and stability. There is, in our legends, no heroism of the office clerk, no stable industrial work force of the people who actually make the system work. There is no pride in being an employee (Wilson asked for a return to the time when everyone was an employer).

There has been no boasting about our social workers---they are merely signs of the system’s failure, of opportunity denied or not taken, of things to be eliminated. We have no pride in our growing interdependence, in the fact that our system can serve others, that we are able to help those in need; empty boasts from the past make us ashamed of our present achievements, make us try to forget or deny them, move away from them. There is no honor but in the Wonderland race we must all run, all trying to win, none winning in the end (for there is no end).

26. The primary purpose of the passage is to
- Criticise the inflexibility of American economic mythology
  - Contrast “Old World” and “New World” economic ideologies
  - Challenge the integrity of traditional political leaders
  - Champion those Americans whom the author deems to be neglected
27. According to the passage, “Old World” values were based on
- Ability
  - Property

- c. Family connections   d. Guild hierarchies

28. In the context of the author's discussion of regulating change, which of the following could be most probably regarded as a "strong referee" in the United States? position of the moving plate has an impact on the forces that move it, could produce complicated and varying motions. On the other hand, the theory is implausible because convection does not normally occur along lines, and it certainly does not occur along

- a. A school principal  
b. A political theorist  
c. A federal court judge  
d. A social worker

29. The author sets off the word "Reform" with quotation marks in order to

- a. Emphasize its departure from the concept of settled possessiveness.  
b. Show his support for a systematic program of change.  
c. Underscore the flexibility and even amorphousness of United States society.  
d. Assert that reform in the United States has not been fundamental.

30. It can be inferred from the passage that the author most probably thinks that giving the disenfranchised "a piece of the action" is

- a. A compassionate, if misdirected, legislative measure.  
b. An example of Americans' resistance to profound social change.  
c. An innovative program for genuine social reform.  
d. A monument to the efforts of industrial reformers.

**Directions for questions 31 to 35:** Read the given passage and answer the questions that follow.

**PASSAGE**

No very satisfactory account of the mechanism that caused the formation of the ocean basins has yet been given. The traditional view supposes that the upper mantle of the earth behaves as a liquid when it is subjected to small forces for long periods and that differences in temperature under oceans and continents are sufficient to produce convection in the mantle of the earth with rising convection currents under the mid-ocean ridges and sinking currents under the continents. Theoretically, this convection would carry the continental plates along as though they were on a conveyor belt and would provide the forces needed to produce the split that occurs along the ridge. This view may be correct: It has the advantage that the currents are driven by temperature

differences that themselves depend on the position of the continents. Such a back-coupling, in which the intermediate trench, the two ridges must be moving apart. It would be odd if the rising convection currents kept exact pace with them. An alternative theory is that the sinking part of the plate, which is denser than the hotter surrounding mantle, pulls the rest of the plate after it. Again it is difficult to see how this applies to the ridge in the South Atlantic, where neither the African nor the American plate has a sinking part. Another possibility is that the sinking plate cools the



neighbouring mantle and produces convection currents that move the plates. This last theory is attractive because it gives some hope of explaining the enclosed seas, such as the Sea of Japan. These seas have a typical oceanic floor, except that the floor is overlaid by several kilometers of sediment. Their floors have probably been sinking for long periods. It seems possible that a sinking current of cooled mantle material on the upper side of the plate might be the cause of such deep basins. The enclosed seas are an important feature of the earth's surface, and seriously require explanation because, addition to the enclosed seas that are developing at present behind island arcs, there are a number of older ones of possibly similar origin, such as the Gulf of Mexico, the Black Sea, and perhaps the North Sea. lines broken by frequent offsets or changes in direction, as the ridge is. Also it is difficult to see how the theory applies to the plate between the Mid- Atlantic Ridge and the ridge in the Indian Ocean. This plate is growing on both sides, and since there is no

31. According to the traditional view of the origin of ocean basins, which of the following is insufficient to move the continental plates?
- a. Increase in sedimentation on ocean floors.
  - b. Spreading of ocean trenches.
  - c. Movement of mid-ocean ridges.
  - d. Difference in temperature under oceans and continents.
32. It can be inferred from the passage that, the deepest sediments would be found in the
- a. Indian Ocean
  - b. Black Sea
  - c. Mid-Atlantic
  - d. South Atlantic
33. The author refers to a "conveyor belt" in order to
- a. Illustrate the effects of convection in the mantle.
  - b. Show how temperature differences depend on the position of the continents
  - c. Demonstrate the linear nature of the Mid- Atlantic Ridge
  - d. Describe the complicated motions made possible by back-coupling.
34. The author regards the traditional view of the origin of the oceans with
- a. Slight apprehension
  - b. Absolute indifference
  - c. Indignant anger
  - d. Guarded scepticism
35. According to the passage, which of the following are separated by a plate that is growing on both sides?
- a. The Pacific Ocean and the Sea of Japan
  - b. The South Atlantic Ridge and the North Sea Ridge
  - c. The Gulf of Mexico and the South Atlantic Ridge
  - d. The Mid-Atlantic Ridge and the Indian Ocean Ridge

**Directions for questions 36 to 41:** Identify the part of a sentence that has an error in it.

36.

- a. She decided                      b. not to go there
- c. like it was                      d. very late.

37.

- a. Ashok and his friends
- b. were walking towards the theatre
- c. along with
- d. his common friend

38.

- a. Students preparing
- b. for competitive exams
- c. should keep themselves abreast
- d. of the later news.

39. You can get (A)/ all the information you want (B)/ in this web page (C)/ No error (D).

40. The crime has growth (A)/ rapidly in India (B)/ since the disintegration (C) of the communist system.(D)

41.

- a. Wherever they go
- b. Americans easily adapt to
- c. Local circumstances
- d. No error.

42.

- a. During that period,
- b. many bike buyers preferred
- c. bikes that are red and shiny.
- d. No error.

43.

- a. Our meticulous plan came
- b. for nothing as he had to
- c. leave for boston
- d. at short notice.

**Directions for questions 44 to 51:** Choose the option that is the best alternative for the underlined phrase in the sentence

44. Readers of newspapers and viewers of TV have got used to thinking that all politicians talk rhetorically and are not expected to be taken seriously.
- are not expected to be taken seriously.
  - do not expect to be taken seriously.
  - does not expect to take seriously.
  - do not being expected to be taken serious.
45. There have been no reason to believe that the rate of change in India in earlier times was any slower than that of the world.
- There was no reason to believe that the rate of change in India
  - They are no reason to believe that the rate of change in India
  - There is no reason to believe that the rate of change in India
  - There is nothing reason to believe that the rate of change in India
46. To know how to concentrate is to acquire the power to withdraw from all other things except one thing you wish to achieve.
- except one thing you wish to achieve.
  - except the one thing you wish to achieve.
  - excepting the one thing you wish to achieve.
  - except the one thing you wishes to achieve.
47. Education not only helps to develop skills but will also improve awareness also on critical issues relating to health, political rights and governance, besides empowering women.
- not only helps to develop skills but will also improve awareness of critical issues relating to health.
  - not only helps to develop skills but also improves  
awareness of critical issues relating to health.
  - not only helps to develop skills but will also improve awareness in critical issues relating to health.
  - not only will help to develop skills but will also improve awareness of critical issues relating to health.
48. Though India has most awe inspiring tourism attractions than most nations, we have not given it the due infrastructure or packaged it well enough for the global tourist.
- much awe inspiring tourism attractions than most nations, we have not given it the due infrastructure
  - more awe inspiring tourism attractions than most nations, we have not given it the due infrastructure.
  - more awe inspiring tourism attractions than most nations, we had not given it the due infrastructure.

- d. more awe inspiring    tourism attractions than most nations do, we have not given it the due infrastructure.

49. It is an alarming fact that violence on women has risen over the last decade.

- a. Violence over women has risen over the last decade.
- b. Violence upon women rose over the last decade.
- c. Violence against women has risen over the last decade.
- d. Violence towards women rose over the last decade.

50. In many ways, language is a paradox; we learn to use it as children with little difficulty ; yet as an adult we find learning a second language a major challenge.

- a. we learn to use it as children with little difficulty  
; yet as an adult
- b. we learn to use it as a child with little difficulty ;  
yet as adults
- c. we learn to use it as children with little difficulty  
; yet as adults
- d. we learn to use it as the children with little difficulty ; yet as an adult

51. A large rise in the number of housing starts in the coming year should boost new construction dollars by several billion dollars, making the construction industry's economic health much more robust than five years ago.

- a. making the construction industry's economic health much more robust than five years ago.
- b. and make the construction industry's economic health much more robust than five years ago.
- c. making the construction industry's economic health much more robust than it was five years ago
- d. to make the construction industry's economic health much more robust than five years ago
- e. in making the construction industry's economic health much more robust than it as five years ago

**Directions for questions 52 to 59:** Fill in the blanks with the best alternatives

52. They seem to \_\_\_\_\_ the idea of working up plans

- a. cherish ... relentlessly
- b. impede ... meticulously
- c. endorse - incoherently
- d. Embody- perennially

53. The trail grew faint, for the soil was scanty and the only herbage was this ..... straw that they lay upon the ground.

- a. \_\_\_\_lush-green      b. intricate      c. scorched      d. agog

54. When shopping malls become\_\_\_\_\_pantheons, you may be\_\_\_\_\_an atheist if you shy away from them.

- a. revered .....rattled      b. modern...branded  
c. stagnant ...honoured      d. eclectic ...serviced

55. It was a scene that is becoming all too common in the new wars; by the time the smoke had cleared,numerous sprawled in the blasted remains.

- a. bungled      b. paranoid c. mangled      d. vindictive

56. The essay confronted what many chose to ignore, that behind their country's economic was an authoritarian political order that\_\_\_\_\_dissent, often brutally

- a. ruin ... fawned      b. miracle ... stifled  
c. failure ... quelled      d. progress      ...  
reneged

57. Scientific experiments demonstrate that the ready availability of food and lack of stimulation over a prolonged period of time can lead to even predators transforming into creatures.

- a. agrarian      b. placid  
c. caustic      d. carnivorous

58. The biologist described how vultures portions of carcasses and play a crucial role in maintaining the ecological balance as\_\_\_\_\_.

- a. seize ... predators      b. depend on ...parasites  
c. devour scavengers      d. hunt ... carnivores

59. Black swan" the primitive painting of an ebony swan, with its neck arched in an\_\_\_\_\_fashion was hardly a life like\_\_\_\_\_of that elegant bird.

- a. unaesthetic ... personification  
b. inarticulate ... depiction  
c. ungainly ... rendition  
d. incongruous ... replication

**Directions for questions 60 to 65:** Read the paragraphs given and choose the best option that suits the question asked

60. The Panama canal is a ship canal that cuts through the Isthmus of panama, connecting the Atlantic and Pacific oceans. Although several foreign companies tried to build the canal through out the 19<sup>th</sup> century, none were successful. After the U.S. government finished the canal in 1914. According to this passage:

- a. Panama and Columbia fought a war over the Panama canal.
- b. The U.S. was given rights to the canal land.
- c. Foreign companies built the canal before U.S. stepped in.
- d. Panama built the canal in 1914.

true that

61. In Los Angeles, a political candidate who buys saturation radio advertising is the most important factor in political campaign in Los Angeles.

According to the passage:-

- a. Radio advertising is the most important factor in political campaign in Los Angeles.
- b. Maximum name recognition in Los Angeles will help a candidate to win a higher percentage of votes cast in city.
- c. A candidate's record of achievement in the Los Angeles area will do little to affect his or her name.
- d. For maximum name recognition, a candidate need not spend on media channels other than radio advertising.

62. The rate of violent crimes in this state is up by 30 percent from last year. The fault lies entirely in our court system. Recently our Judges' sentences have been so lenient that criminals can now do almost anything without fear of a long prison term.

The argument above would be weakened if it were

- a. 85 percent of the other states in the nation have lower crime rates than this state.
- b. White collar crime in this state has also increased by over 25 percent in the last year.
- c. 35 percent of the police in this state have been laid off in the last year due to budget cuts.
- d. Polls show that 65 percent of the population in this state oppose capital punishment.

63. The increase in the number of newspaper articles exposed as fabrications serves to bolster the contention that publishers are more interested in boosting circulation than in printing the truth. Even minor publications have staffs to check such obvious fraud.

The argument assumes that

- a. Newspaper stories exposed as fabrications are a recent phenomenon.
- b. Fact checking is more comprehensive for minor publications than for major ones.
- c. Only recently have newspapers admitted to publish intentionally fraudulent stories.
- d. The publishers of newspapers are the people who decide what to print in their newspapers.

64. Time and again it has been shown that students who attend colleges with low faculty /student ratios get the most well-rounded education. As a result, when my children are ready to attend college, I'll be sure they attend a school with a very small student population.

Which of the following, if true, identifies the greatest flaw in the reasoning above?

- a. A low faculty / student ratio is the effect of a well-rounded education, not its source.
- b. Intelligence should be considered the result of childhood environment, not advanced environment.

- c. A very small student population does not by itself ensure a low faculty / student ratio.
- d. Parental desires and preferences rarely determines a child's choice of a college or university.

65. All German philosophers, except for Marx, are idealists. From which of following can the statement above be most properly inferred?

- a. Except for Marx if someone is an idealist philosopher than he/she is German.
- b. Marx is the only non - German philosopher who is an idealist.
- c. Marx is not an idealist German philosopher
- d. Aside from the philosopher Marx, if someone is a German, then he/she is an idealist.