HOTEL MANAGEMENT

National Council for Hotel Management and Catering Technology (NCHMCT)
Conducted by NTA (National Testing Agency)

SOLVED PAPER 2021*

Max. Marks : 200

Time Allowed : 3 hrs

Instructions

- There are Five (A-E) sections in this solved paper.
- For every correct attempt, the student will be awarded 1 mark. For every incorrect attempt, there is provision of negative marking of 0.25 marks.
- All the questions are in MCQs form and each having four options.

Section A - English Language

Directions (Q. Nos. 1-5) *Each of these questions consists of a sentence which is divided into four parts a, b, c and d. Identify that part which contains an error.*

1. (a) the Indian radio which was
(b) previously controlled by the British
(c) rulers is free now from the
(d) narrow vested interests.

Sol. (c) In 'rulers is free now from the', the placing of 'now' and 'free' should be interchanged, i.e., 'rulers is now free from the' to correct the sentence.

2. (a) A lot of travel delay is caused
(b) due to the inefficiency and
(c) lack of good management
(d) on behalf of the railways.

Sol. (d) 'On behalf of the railways' should be changed to 'on part of the railways' to correct the sentence.

3. (a) After having failed to revive a flagging Nano,
(b) Tata Motors has demanded afresh last week
(c) that the enviable sops be extended to other car models
(d) it plans to manufacture from Sanand

Sol. (a) In part (a), remove 'after' because its use is redundant with perfect participle 'having failed'. The perfect participle indicates completed action.

4. (a) The rock paintings in Karikiyoor contains
(b) analogous-Indus script, meaning they resemble
(c) the script found in Indus
(d) Civilisation sites of northern India

Sol. (a) The verb 'contains' should be changed to 'contain'. The subject 'rock paintings' is a plural subject and it will take a plural verb according to subject-verb agreement rule.

5. (a) As the government does not seem to want to protect the site,
(b) we plan to put up with warning boards prohibiting tourists
(c) from entering without our permission, and
(d) only with a guide under exceptional circumstances

Sol. (b) In part (b), the phrase 'put up with' means to tolerate which is incorrect in the context of the sentence. Here, 'put up' should be used which means to display.

Directions (Q. Nos. 6-10) *Choose the word opposite in meaning to the bold word given in the sentence.*

6. He returned home much **inspired**, no wonder the plan had worked.
  (a) Overwhelmed (b) Dispirited
  (c) Disillusioned (d) Sceptical

Sol. (b) The word 'inspired' refers to an extraordinary quality, as if arising from some external creative impulse. 'Dispirited' refers to having lost enthusiasm and hope. Hence, option (b) is the correct answer.

7. The government is taking measures to **augment** the country's supply of food.
  (a) Prohibit (b) Decrease
  (c) Surpass (d) Compensate

Sol. (b) 'Augment' means to increase the amount, value or size and 'decrease' means to reduce the amount, value or size. Thus, option (b) is the correct answer.

8. People who hold very unorthodox views are sometimes **ostracized**.
  (a) Hated (b) Criticized
  (c) Befriend (d) Shun

Sol. (c) 'Ostracize' means to exclude from the group. 'Befriend' means become a friend to. Thus, option (c) is the correct answer.

9. They know by his **sophomoric** remarks that he was still naive in the field.
  (a) Juvenile (b) Immature
  (c) Unacceptable (d) Experienced

Sol. (d) 'Sophomoric' means pretentious or juvenile. 'experienced' means 'having a lot of experience or mature. Thus, option (d) is the correct answer.

10. While the reaction to major disasters is **dismal**, the response to emergencies like accidents is equally sad.
  (a) Smiling (b) Depressing
  (c) Upset (d) Competent

Sol. (a) 'Dismal' means causing a mood of gloom or depression. 'Smiling' means happy. Thus, option (a) is the correct answer.

Directions (Q. Nos. 11-15) *Choose the word most similar in meaning to the bold word given in the sentence.*

11. Public policy in regard to food in main economies around the world has not provided adequate **incentive**, the response to emergencies like accidents is equally sad.
  (a) Acceleration
  (b) Surplus
  (c) Baiting
  (d) Encouragement

Sol. (d) 'Incentive' is a thing that motivates or encourages someone to do something. Thus, option (d) 'encouragement' is the synonym of incentive.

12. The National Disaster Management agency, set up a short time ago being a Central Government agency, has limitations relating to **infringing** the jurisdiction of the states.
  (a) Obeying (b) Violating
  (c) Provoking (d) Preserving

Sol. (b) 'Infringing' means actively breaking the terms of a law, agreement, etc. which is same as violating. Thus, option (b) is the correct answer.

13. The secretary had a **derisive** attitude towards some of the members of the committee.
  (a) Mocking (b) Deprecatory
  (c) Strident (d) Respectful

Sol. (a) 'Derisive' means expressing contempt or ridicule. 'Mocking' means making fun of someone or something in a cruel way. Thus, option (a) is the correct answer.

14. Mohini was often teased as **corpulent** by her friends.
  (a) Belligerent (b) Gaunt
  (c) Fat (d) Garrulous

Sol. (c) 'Corpulent' means fat. Thus, option (c) is the correct answer.

15. His **unscrupulous** pursuit of wealth finally landed him in prison.
  (a) Unethical (b) Superfluous
  (c) Ethical (d) Dedicated

Sol. (a) 'Unscrupulous' means having or showing no moral principles. Thus, option (a) 'unethical' is its correct synonym.

Directions (Q. Nos. 16-20) *Choose the meaning of the idiom/phrase given below.*

16. In full swing
  (a) Cheerful (b) Appreciate
  (c) Somewhat deaf (d) Very active

Sol. (d) 'In full swing' means at a stage when the level of activity is at its highest. So, 'very active' gives its correct meaning.

17. To give currency to
  (a) To give a present (b) To make popular
  (c) To make a heavy load (d) To offer a bribe

Sol. (b) 'To give currency to' means to make someone or something popular.

18. Play a joke on someone
  (a) To trick someone
  (b) To lie to someone
  (c) To play game with someone
  (d) To make someone smile

Sol. (a) 'Play a joke on someone' means to trick someone.

19. Chicken-hearted
  (a) Brave (b) Coward (c) Intelligent (d) Stupid

Sol. (b) 'Chicken-hearted' means coward.

20. Sit on the fence
   (a) Doubtful
   (b) Having the best time
   (c) Avoid doing work
   (d) Avoid making a choice or decision

   Sol. (d) 'Sit on the fence' means to avoid or delay making a choice or decision.

Directions (Q. Nos. 21-25) *Choose the one word for the given phrases.*

21. A nation or person engaged in war or conflict, as recognized by international law
   (a) Belligerent   (b) Intelligent
   (c) Sacrilege   (d) Theology

   Sol. (a) 'Belligerent' is the correct answer.

22. An examination of tissue removed from a living body to discover the presence, cause or extent of a disease
   (a) Autopsy   (b) Biopsy
   (c) Allegory   (d) Axiom

   Sol. (b) 'Biopsy' is the correct answer.

23. The action or offence of speaking sacrilegiously about God or sacred things; profane talk
   (a) Exonerate   (b) Pantheism
   (c) Blasphemy   (d) Pedantic

   Sol. (c) 'Blasphemy' is the correct answer.

24. A vigorous campaign for political, social or religious change
   (a) Camping   (b) Revolution
   (c) Revolt   (d) Crusade

   Sol. (d) 'Crusade' is the correct answer.

25. Lasting for a very short time
   (a) Extempore   (b) Ephemeral
   (c) Everlasting   (d) Eternal

   Sol. (b) 'Ephemeral' is the correct answer.

Directions (Q. Nos. 26-30) *Fill in the blanks with suitable options.*

26. A stock limit of 100 quintals for retail traders and 500 quintals for wholesale traders has been ....
   (a) Mandatory   (b) Imposed
   (c) Inflictive   (d) Subrogation

   Sol. (b) 'Imposed' is appropriate to fill the blank as it means to officially force a rule, tax, punishment, etc. to be obeyed.

27. The challenge of industrial decarbonisation looks .... at first glance.
   (a) Discourage   (b) Encourage
   (c) Daunting   (d) Sympathy

   Sol. (c) 'Daunting' is suitable to fill the blank as it means frightening in a way that makes you feel less confident.

28. The man was .... in financial disputes with several people.
   (a) occluded   (b) recuperated
   (c) mired   (d) swashbuckling

   Sol. (c) 'Mired' is the correct answer as it means a complicated or an unpleasant situation that is difficult to escape or make progress.

29. When the caring man saw the .... had no footwear, he offered the man the pair of shoes he wore.
   (a) pauper   (b) jabber   (c) dapper   (d) hamper

   Sol. (a) 'Pauper' is appropriate to fill the blank as it means someone who is very poor.

30. Although my plans rarely come to fruition, ... has been good to me.
   (a) ally   (b) anguish
   (c) apology   (d) serendipity

   Sol. (d) 'Serendipity' is the correct answer which means the occurrence and development of events by chance in a happy or beneficial way.

Directions (Q. Nos. 31-34) *Identify the best way of writing a sentence in the context of the correct usage of standard English.*

31. (a) He is been writing a novel since October, and he is about to finish it.
   (b) He was written a novel since October, and he is about to finish it.
   (c) He has been writing a novel since October, and he is about to finish it.
   (d) He had been written a novel since October, and he is about to finish it.

   Sol. (c) 'He has been writing a novel since October, and he is about to finish it,' is the correct sentence.

32. (a) She can count to thirty quicker than I expected and can write seven of the square-hand letters and the words which can be made with them.
   (b) She can count till thirty more quicker than I expected and can write seven of the square-hand letters and the words which can be made with them.
   (c) She can count to thirty quicker than I expected and can write seven of the square-hand letters and the words which can be made with them.
   (d) She can count to thirty more quickly than I expected and can write seven of the square-hand letters and the words which can be made with them.

   Sol. (d) 'She can count to thirty more quickly to what I expected and can write seven of the square-hand letters and the words which can be made with them,' is the correct sentence.

33. (a) As the number of touchpoints with other countries rise, so must our shared understanding of acceptable conduct.

(b) As the number of touchpoints with other countries rises, so must our shared understanding of acceptable conduct.

(c) As the number of touchpoints with other countries rising, so must our shared understanding of acceptable conduct.

(d) As the number of touchpoints with other countries had rise, so must our shared understanding of acceptable conduct.

Sol. (b) 'As the number of touchpoints with other countries rises, so must our shared understanding of acceptable conduct,' is the correct sentence.

34. (a) The mother bird lays her eggs in a nest and keeps them warm unless the birdlings are hatched.

(b) The mother bird lays her eggs in a nest and keeps them warm until the birdlings is hatched.

(c) The mother bird lays her eggs in a nest and keeps them warm unless the birdling is hatched.

(d) The mother bird lays her eggs in a nest and keeps them warm until the birdlings are hatched.

Sol. (d) 'The mother bird lays her eggs in a nest and keeps them warm until the birdlings are hatched,' is the correct sentence.

Directions (Q. Nos. 35-39) *Choose the misspelt word from the following.*

35. (a) Skulking
(b) Commander
(c) Legionaries
(d) Ballede

Sol. (d) The correct spelling is Ballade.

36. (a) Amid   (b) Decathalon
(c) Ancient   (d) Analysis

Sol. (b) The correct spelling is Decathlon.

37. (a) Questionning   (b) Sound
(c) Nuisance   (d) Imagine

Sol. (a) The correct spelling is Questioning.

38. (a) Citation (b) Referred (c) Pavillion (d) Piece

Sol. (c) The correct spelling is Pavilion.

39. (a) Acquaintance
(b) Aquire
(c) Acreage
(d) Acquit

Sol. (b) The correct spelling is Acquire.

Directions (Q. Nos. 40-44) *Choose the correct spellings of the given words.*

40. (a) Quadruped   (b) Quadrupped
(c) Quadraped   (d) Quadrapped

Sol. (a) The correct spelling is Quadruped.

41. (a) Allaviate   (b) Alleviate
(c) Alliveate   (d) Allaevate

Sol. (b) The correct spelling is Alleviate.

42. (a) Arogance   (b) Arroganse
(c) Aroganse   (d) Arrogance

Sol. (d) The correct spelling is Arrogance.

43. (a) Megnificient   (b) Magnifecent
(c) Magnificnt   (d) Magnifiscient

Sol. (c) The correct spelling is Magnificnt.

44. (a) Suparfluous   (b) Superfluous
(c) Superflous   (d) Superfluos

Sol. (b) The correct spelling is Superfluous.

Directions (Q. Nos. 45-60) *Read the passages given below and answer the questions that follow.*

Passage 1

It is strange that, according to his position in life, an extravagant man is admired or despised. A successful businessman does nothing to increase his popularity by being careful with his money. He is expected to display his success, to have smart car, an expensive life, and to be lavish with his hospitality. If he is not so, he is considered mean and his reputation in business may even suffer in consequence. The paradox remains that if he had not been careful with his money in the first place, he would never have achieved his present wealth. Among the two income groups, a different set of values exists. The young clerk who makes his wife a present of a new dress when he hadn't paid his house rent, is condemned as extravagant. Carefulness with money to the point of meanness is applauded as a virtue. Nothing in his life is considered more worthy than paying his bills. The ideal wife for such a man separates her housekeeping money into joyless little piles - so much for rent, for food, for the children's shoes; she is able to face the milkman with equanimity and never knows the guilt of buying something she can't really afford. As for myself, I fall into neither of these categories. If I have money to spare, I can be extravagant, but when, as is usually the case, I am hard up, then I am the meanest man imaginable.

45. Which of the following would be the most suitable title for the passage?
(a) Extravagance leads to poverty
(b) Miserly habits of the poor
(c) Extravagance in the life of the rich and the poor
(d) Extravagance is always condemnable

Sol. (c) 'Extravagance in the life of the rich and the poor' is the most suitable title for the passage.

46. As far as money is concerned, we get the impression that the writer:

(a) is incapable of saving anything

(b) is never inclined to be extravagant

(c) would like to be considered extravagant

(d) doesn't often have any money to save

Sol. *(d)* As far as money is concerned, we get the impression that the writer doesn't often have any money to save.

47. What does the statement 'she is able to face the milkman with equanimity' imply?

(a) She is not upset as she has been paying the milkman his dues regularly

(b) She loses her nerve at the sight of the milkman who always demands his dues

(c) She manages to keep cool as she has to pay the milkman who always demands his dues

(d) She remains composed and confident as she knows that she can handle the milkman tactfully.

Sol. *(a)* The statement 'she is able to face the milkman with equanimity' implies that she is not upset as she has been paying the milkman his dues regularly.

48. How does the housewife, described by the writer, feel when she saves money?

(a) Is content to be so thrifty

(b) Wishes life were less burdensome

(c) Is still troubled by a sense of guilt

(d) Wishes she could sometimes be extravagant

Sol. *(a)* The housewife feels content to be so thrifty when she saves money.

Passage 2

Our awareness of time has reached such a pitch of intensity that we suffer acutely whenever our travels take us into some corner of the world where people are not interested in minutes and seconds. The unpunctuality of the Orient, for example is appalling to those who come freshly from a land of fixed meal-times and regular train services. For a modern American or Englishman, waiting is a psychological torture. An Indian accepts the blank hours with resignation, even with satisfaction. He has not lost the fine art of doing nothing. Our notion of time as a collection of minutes, each of which must be filled with some business or amusement, is wholly alien to the Greek. For the man who lives in a pre-industrial world, time moves at a slow and easy pace: for the good reason that he has not been made conscious of the existence of minutes.

49. The 'orient' in the passage refers to

(a) China and Japan

(b) Japan and England

(c) England and America

(d) America alone

Sol. *(a)* The 'orient' in the passage refers to China and Japan.

50. According to the author

(a) the orientals are very punctual

(b) the Americans or the Englishmen are punctual

(c) the Greek and the Orientals are very punctual

(d) the Indians are very punctual

Sol. *(b)* According to the author, the Americans or the Englishmen are punctual.

51. A person who belongs to pre-industrial world

(a) knows the utility of time

(b) knows how to derive happiness by making use of time carefully

(c) does not care about each minute

(d) cares much for every minute

Sol. *(c)* A person who belongs to pre-industrial world does not care about each minute.

52. The Orientals are alien to

(a) the business of amusement

(b) the notion of time as a collection of minutes

(c) industrialisation

(d) the fine art of doing nothing

Sol. *(b)* The Orientals are alien to the notion of time as a collection of minutes.

53. What is the main theme of the passage?

(a) Concept of time in pre-industrial world

(b) The Greek concept of time

(c) Awareness of time in the modern industrial world

(d) The Orientals and their awareness of time.

Sol. *(c)* Awareness of time in the modern industrial world is the main theme of the passage.

Passage 3

In an effort to produce the largest, fastest and most luxurious ship afloat, the British built the S.S. Titanic. It was so superior to anything else on the seas that it was dubbed 'unsinkable'. So sure of this were the owners that they provided only twenty life boats and rafts, less than one-half the number needed for the 2,227 passengers on board. Many passengers were aboard the night it rammed an iceberg only two days at sea and more than halfway between England and its New-York destination. Because the luxury liner was travelling so fast. It was impossible to avoid the ghostly looking ice-berg. An unextinguished fire also contributed to the ship's submersion. Panic increased the number of casualties as people jumped into the icy water or fought to be among the few to board the life boats. Four hours after the mishap, another ship the 'Carpathia' rescued 705 survivors. The infamous S. S. Titanic had enjoyed only two days of sailing glory on its maiden voyage in 1912 before plunging into 12,000 feet of water near the coast of Newfoundland where it lies today.

54. What does this passage convey?

(a) The S.S Titanic proved itself the most seaworthy vessel in 1912

(b) Attempts to rescue the S.S.Titanic survivors were not successful

(c) Overconfidence by builders and owners was greatly responsible for the sinking of the vessel

(d) A fire and panic were the only causes for the sinking of the ship

Sol. (c) This passage conveys that overconfidence by builders and owners was greatly responsible for the sinking of the vessel.

55. "Maiden voyage" is closest in meaning to ....

(a) Inaugural   (b) Most elegant

(c) Longest   (d) Final

Sol. (a) "Maiden voyage" is closest in meaning to inaugural.

56. Choose the statement which is NOT true in context to the passage.

(a) The Carpathia rescued the survivors

(b) The S.S Titanic sank near Newfoundland

(c) The S.S Titanic was the fastest ship afloat in 1912.

(d) Only a third of those aboard perished

Sol. (d) Only a third of those aboard perished is not true in context to the passage.

Passage 4

The Printing Press has made knowledge available to the vast multitude of people - But what kind of knowledge is it? Is it of any permanent character ? Books have become common and, when we say that books like the Sexton Blake series sell like hot cakes, we have an index of the nature of knowledge which a typical person in a vast multitude seeks. Let me tell you of an incident that took place in America a few years ago. An American publisher printed a million copies of the works of Charles Dickens in the hope that he could easily sell them on the name of the author. But to his disappointment, not even the widest publicity and advertisement could enable him to sell the books. Being sorely tired, he hit on a plan, He tore off the cover pages. substituted covers containing sensational love headings for the titles and again advertised the new books, in a week, all the books were sold out. We are not concerned here with the moral of the bookseller's action. What we have to note is that only books of a sensational type are really sought for by the ordinary folk who have a great aversion to serious study. So, you will see that the grand argument that the Printing Press has made knowledge available even to the masses is certainly fallacious and quite it misleading. To put it correctly, it has created a taste for a low order of books.

57. What does the author's contention makes us feel?

(a) is unilateral in his argument

(b) is balanced

(c) argues convincingly

(d) is a typical critic

Sol. (c) The author's contention makes us feel that he argues convincingly.

58. What is the main contention of the passage?

(a) To stress the popularity of the printing press

(b) To bring out the evil impacts of the printing press

(c) To point out the disappointment of serious readers

(d) To shed light on the morale of the publishers

Sol. (b) To bring out the evil impacts of the printing press is the main contention of the passage

59. The American publisher had chosen the works of Charles Dickens to ....

(a) give wide publicity to Dickens' works

(b) offer the readers what best he could

(c) counter the trash

(d) make money easily

Sol. (d) The American publisher had chosen the works of Charles Dickens to make money easily.

60. Why are Sexton Blake series are big sellers?

(a) are sensational

(b) disseminate knowledge

(c) are informative

(d) satisfy a typically serious reader

Sol. (a) Sexton Blake series are big sellers because they are sensational.

Section B - Numerical Ability and Analytical Aptitude

61. Two persons ride towards each other from two places 55 km apart, one riding at 12 km/h and the other at 10 km/h.

When will they be 11 km apart?

(a) 2 h and 30 min   (b) 1 h and 30 min

(c) 2 h   (d) 2 h and 45 min

Sol. (c) Relative speed of both persons $= 12 + 10 = 22$ km/h

Now, distance between both of them $= 55 - 11 = 44$ km

∴ Time, when distance is 11 km between both of them

$= \dfrac{\text{Total distance}}{\text{Relative speed}} = \dfrac{44}{22} = 2$ h

Hence, they will be apart 11 km after 2 h.

62. A well of diameter 3 m is dug 14 m deep. The Earth taken out of it has been spread evenly all around it in the shape of a circular ring of width 4 m to form an embankment.

Find the height of the embankment.

(a) 4.25 m   (b) 2.250 m

(c) 1.125 m   (d) 1.750 m

Sol. (d) Let, height of embankment $= h$ m

Given, radius of well $= \dfrac{3}{2} = 1.5$ m

According to the question,

$\dfrac{4}{3} \times \dfrac{22}{7} \times [(4)^2 - (1.5)^2] \times h = \dfrac{22}{7} \times (1.5)^2 \times 14$

$\Rightarrow \dfrac{4}{3} \times (16 - 2.25) \times h = 2.25 \times 14$

$\Rightarrow \dfrac{4}{3} \times 13.75 \times h = 2.25 \times 14$

$\Rightarrow h = \dfrac{2.25 \times 14 \times 3}{4 \times 13.75}$

$\Rightarrow h = \dfrac{225 \times 7 \times 3}{2 \times 1375}$

$\Rightarrow h = \dfrac{189}{110} = 1.718 \approx 1.75$

∴ $h = 1.75$ m

63. Find the amount which Shyam will get on ₹ 4096, if he gave it for 18 months at $12\frac{1}{2}$% per annum, interest being compounded half yearly.

(a) ₹ 5813   (b) ₹ 4515   (c) ₹ 4913   (d) ₹ 5713

Sol. (c) Here, $P =$ ₹ 4096, $R = 12\frac{1}{2}\% = \dfrac{25}{2}\%$

$T = 18$ months $= \dfrac{18}{12} = \dfrac{3}{2}$ yr

Now, money received to Shyam

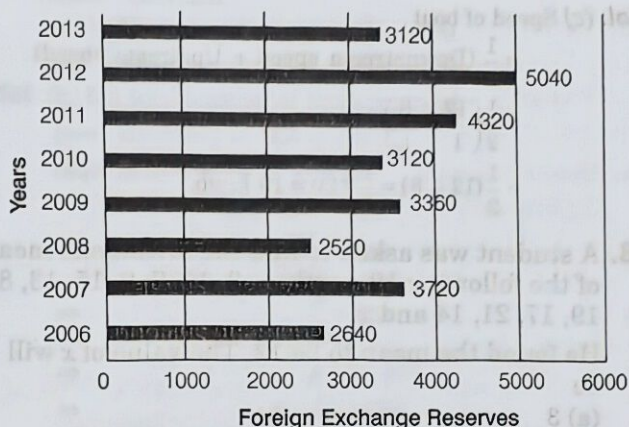$= 4096\left(1 + \dfrac{25}{2 \times 100} \times \dfrac{1}{2}\right)^{\frac{3}{2} \times 2}$

$= 4096\left(1 + \dfrac{1}{16}\right)^3 = 4096\left(\dfrac{17}{16}\right)^3$

$= 4096 \times \dfrac{17}{16} \times \dfrac{17}{16} \times \dfrac{17}{16}$

$= 17 \times 17 \times 17 =$ ₹ 4913

Directions (Q. Nos. 64 and 65) *Study the graph carefully to answer these question.*

Foreign Exchange Reserves of a Country (in $ million)

64. The foreign exchange reserve in 2012 was how many times that in 2009?

(a) 0.7   (b) 1.2

(c) 1.4   (d) 1.5

Sol. (d) Required answer

$= \dfrac{\text{Foreign exchange reserves in 2012}}{\text{Foreign exchange reserves in 2009}}$

$= \dfrac{5040}{3360} = \dfrac{3}{2} = 1.5$

Hence, in the year 2012, foreign exchange reserves was 1.5 times in comparison to the year 2009.

65. What was the percentage increase in the foreign reserves in 2012 over 2008?

(a) 100%   (b) 150%

(c) 200%   (d) 620%

Sol. (a) Required percentage increase

$= \left(\dfrac{5040 - 2520}{2520}\right) \times 100 = \dfrac{2520}{2520} \times 100 = 100\%$

66. A works twice as fast as B. If B can complete a piece of work independently in 12 days, then what will be the number of days taken by A and B together to finish the work?

(a) 4   (b) 6

(c) 8   (d) 18

Sol. (a) Time taken to complete the work by $B = 12$ days

∵ A work twice as fast as B

∴ Time taken to complete the work by $A = 6$ days

Now, one day work of $B = \dfrac{1}{12}$

and one day work of $A = \dfrac{1}{6}$

∴ One day work of $(A + B) = \frac{1}{6} + \frac{1}{12} = \frac{2+1}{12} = \frac{3}{12} = \frac{1}{4}$

Hence, time taken by A and B together to finish the work in $= 4$ days.

67. In one hour, a boat goes 12 km along the stream and against the stream. The speed of the boat in still water.

(a) 12 km/h   (b) 11 km/h
(c) 10 km/h   (d) 8 km/h

Sol. (c) Speed of boat

$= \frac{1}{2}$ (Downstream speed + Upstream speed)

$= \frac{1}{2}\left(\frac{12}{1} + \frac{8}{1}\right)$

$= \frac{1}{2}(12 + 8) = \frac{1}{2} \times 20 = 10$ km/h

68. A student was asked to find the arithmetic mean of the following 12 numbers 3, 11, 7, 9, 15, 13, 8, 19, 17, 21, 14 and x.

He found the mean to be 12. The value of x will be

(a) 3   (b) 7
(c) 17   (d) 31

Sol. (b) Arithmetic mean $= \dfrac{\text{Sum of total numbers}}{\text{Total number of terms}}$

$12 = \dfrac{\begin{array}{c}3 + 11 + 7 + 9 + 15 + 13 + 8 + 19 \\ + 17 + 21 + 14 + x\end{array}}{12}$

$144 = 137 + x$

$\Rightarrow \qquad x = 144 - 137$

$\therefore \qquad x = 7$

69. The ratio of the number of boys and girls in a college is 7 : 8. If the percentage increase in the number of boys and girls be 20% and 10% respectively, what will be the new ratio?

(a) 8 : 9   (b) 17 : 18
(c) 21 : 22   (d) Cannot be determined

Sol. (c) Originally, let the number of boys and girls in the college be $7x$ and $8x$, respectively. Their increased number is (120% of $7x$) and (110% of $8x$).

i.e. $\left(\dfrac{120}{100} \times 7x\right)$ and $\left(\dfrac{110}{100} \times 8x\right)$

i.e. $\dfrac{42x}{5}$ and $\dfrac{44x}{5}$

∴ Required ratio $= \dfrac{42x}{5} : \dfrac{44x}{5} = 21 : 22$

70. A committee of 12 persons is to be formed from 9 women and 8 men. In how many ways this can be done if atleast 5 women have to be included in a committee?

(a) 6000   (b) 6010
(c) 6062   (d) 6005

Sol. (c) Since, there are 9 women and 8 men. So, a committee of 12 consisting of atleast 5 women, can be formed by choosing.

(i) 5 women and 7 men
(ii) 6 women and 6 men
(iii) 7 women and 5 men
(iv) 8 women and 4 men
(v) 9 women and 3 men

∴ Total number of ways of forming the committee

$= {}^9C_5 \times {}^8C_7 + {}^9C_6 \times {}^8C_6 + {}^9C_7 \times {}^8C_5$
$\qquad\qquad + {}^9C_8 \times {}^8C_4 + {}^9C_9 \times {}^8C_3$

$= 1008 + 2352 + 2016 + 630 + 56 = 6062$

71. The LCM and the HCF of the numbers 28 and 42 are in the ratio.

(a) 6 : 1   (b) 2 : 3
(c) 3 : 2   (d) 7 : 2

Sol. (a) LCM of 28 and 42 is 84 and HCF of 28 and 42 is 14.

Required ratio $= 84 : 14 = 6 : 1$

72. A, B and C started a business with their investment in the ratio 1 : 3 : 5. After 4 months, A invested the same amount as before and B as well as C withdraw half of their investments. The ratio of their profits at the end of the year was

(a) 5 : 6 : 10
(b) 6 : 5 : 10
(c) 10 : 5 : 6
(d) 4 : 3 : 5

Sol. (a) Let their initial investments be ₹x, ₹$3x$ and ₹$5x$ respectively.

Ratio of their profits = Ratio of their investments

$= (x \times 4 + 2x \times 8) : \left(3x \times 4 + \dfrac{3x}{2} \times 8\right) : \left(5x \times 4 + \dfrac{5x}{2} \times 8\right)$

$= (4x + 16x) : (12x + 12x) : (20x + 20x)$

$= 20x : 24x : 40x = 5 : 6 : 10$

73. A student goes to school at the rate of $2\frac{1}{2}$ km/h and reaches 6 min late. If he travels at the speed of 3 km/h, he is 10 min early. The distance (in km) between the school and his house is

(a) 5   (b) 4
(c) 3   (d) 1

Sol. (b) Let the required distance be x km.

Difference between time $= \dfrac{16}{60}$

Then, $\qquad \dfrac{x}{5} \div \dfrac{x}{3} = \dfrac{16}{60}$

$\Rightarrow \qquad \dfrac{2x}{5} - \dfrac{x}{3} = \dfrac{4}{15}$

$\Rightarrow \qquad \dfrac{6x - 5x}{15} = \dfrac{4}{15}$

$\therefore \qquad\qquad x = 4$ km

74. The length of a rectangle is 20% more than its breadth. What will be the ratio of the area of this rectangle to the area of a square whose side is equal to the breadth of the rectangle?

(a) 5 : 6　　　　　　　　(b) 6 : 5
(c) 2 : 1　　　　　　　　(d) Data inadequate

Sol. (b) Let the breadth of the rectangle be x.

According to the question,

Length = 1.20x

∴ Area of rectangle = $1.20x \times x = 1.20x^2$

Area of square = $x \times x = x^2$

∴ Required ratio = $\dfrac{1.20x^2}{x^2} = \dfrac{12}{10} = \dfrac{6}{5} = 6:5$

75. A student was asked to divide a number by 6 and add 12 to the quotient. He, however, first added 12 to the number and then divided it by 6, getting 112 as the answer. The correct answer should have been

(a) 124　　　　　　　　(b) 122
(c) 118　　　　　　　　(d) 114

Sol. (b) Let the number be x.

∴ $\dfrac{x + 12}{6} = 112$

⇒　$x + 12 = 672$

⇒　$x = 672 - 12 = 660$

∴ Correct answer = $\dfrac{660}{6} + 12 = 110 + 12 = 122$

76. A shopkeeper bought 30 kg of wheat at the rate of ₹ 45 per kg. He sold 40% of the total quantity at the rate of ₹ 50 per kg. Approximately, at what price per kg should he sell the remaining quantity to make 25% overall profit?

(a) ₹ 54　　　　　　　　(b) ₹ 52
(c) ₹ 50　　　　　　　　(d) ₹ 60

Sol. (d) Cost price of 30 kg of wheat = $30 \times 45 = ₹ 1350$

Total SP for an overall profit of 25%

$= \dfrac{1350 \times 125}{100} = ₹ 1687.5$

SP of 12% of 30kg wheat = SP of 12 kg wheat

$= 12 \times 50 = ₹ 600$

Expected SP of 18 kg of remaining wheat

$= 1687.5 - 600 = ₹ 1087.5$

∴ Required selling price per kg = $\dfrac{1087.5}{18} \approx ₹ 60$

77. A container contains 40 L of milk from this container 4 L of milk was taken out and replaced by water. This process was repeated further two times. How much milk is now contained in the container?

(a) 26.34 L　　　　　　(b) 27.36 L
(c) 28 L　　　　　　　　(d) 29.16 L

Sol. (d) Amount of milk left after 3 operations

$= \left[40\left(1 - \dfrac{4}{10}\right)^3 \right] L$

$= \left(40 \times \dfrac{9}{10} \times \dfrac{9}{10} \times \dfrac{9}{10} \right) = 29.16\ L$

78. At an election, a candidate secures 40% of the votes, but is defeated by the other candidate by a majority of 298 votes. Find the total number of votes recorded.

(a) 1580　　　　　　　　(b) 1490
(c) 1470　　　　　　　　(d) 1530

Sol. (b) Let total number of votes recorded = x

Now, according to the question,

(60% of x) - (40% of x) = 298

20% of x = 298

⇒　$x \times \dfrac{20}{100} = 298$

⇒　$\dfrac{x}{5} = 298$

⇒　$x = 5 \times 298$

⇒　$x = 1490$

79. If $x - \dfrac{1}{x} = 2$, then what is the value of $x^2 + \dfrac{1}{x^2}$?

(a) 4　　(b) 5　　(c) 3　　(d) 6

Sol. (d) Given, $x - \dfrac{1}{x} = 2$

Now, squaring both sides,

⇒　$x^2 + \dfrac{1}{x^2} - 2 = 4$ [∵ $(a - b)^2 = a^2 + b^2 - 2ab$]

⇒　$x^2 + \dfrac{1}{x^2} = 4 + 2$

⇒　$x^2 + \dfrac{1}{x^2} = 6$

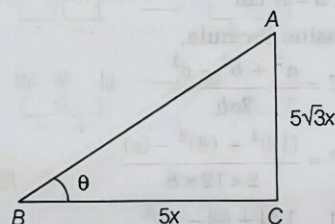**80.** The ratio between the height of tower and the point at some distance is $5\sqrt{3} : 5$. What will be the angle of elevation?

(a) 30°　　　　　　　　(b) 60°
(c) 90°　　　　　　　　(d) 45°

Sol. (b) Let, height of tower = $5\sqrt{3}x$

and distance of point = 5x

Let, angle of elevation = θ

Then, In △ABC

$\tan\theta = \dfrac{AC}{BC}$

$$\Rightarrow \qquad \tan\theta = \frac{5\sqrt{3}x}{5x} = \sqrt{3}$$

$$\Rightarrow \qquad \tan\theta = \sqrt{3} = \tan 60°$$

$$\Rightarrow \qquad \theta = 60°$$

81. The average of runs scored by a player in 11 innings is 63 and the average of his first six innings is 60 and the average of last six innings is 65. Find the runs scored in sixth inning.

(a) 60   (b) 54   (c) 67   (d) 57

Sol. *(d)* ∵ Average score of runs of 11 innings = 63

∴ Total score of runs of 11 innings = $11 \times 63 = 693$

∵ Average score of runs of first 6 innings = 60

∴ Total score of runs 6 innings = $6 \times 60 = 360$

Now, average score of runs of last 6 innings = 65

∴ Total score of runs of last 6 innings = $6 \times 65 = 390$

Hence, total runs scored in sixth innings

$$= 360 + 390 - 693 = 750 - 693 = 57$$

82. There are 50 students in a class. One of them weighing 50 kg goes away and a new student joins. By this the average weight of the class increases by $\frac{1}{2}$ kg. The weight of the new student is

(a) 70 kg   (b) 72 kg   (c) 75 kg   (d) 76 kg

Sol. *(c)* Let the average be x.

Then, sum of weights of all 50 students $= 50x$

According to the question,

$$50x - 50 + y = 50\left(x + \frac{1}{2}\right)$$

Where y is the weight of new student.

$$\Rightarrow \qquad 50x - 50 + y = 50x + 25$$

$$\Rightarrow \qquad -50 + y = 25$$

$$\Rightarrow \qquad y = 75 \text{ kg}$$

83. The length of side AB and side BC of a scalene traingle ABC are 12 cm and 8 cm respectively. The measure of angle C is 59°. Find the length of side AC.

(a) 12   (b) 10   (c) 14   (d) 16

Sol. *(b)* Given, $\angle C = 59° \approx 60°$

$a = 12$ cm, $b = 8$ cm

Now, by cosine formula,

$$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$$

$$\Rightarrow \qquad \cos 60° = \frac{(12)^2 + (8)^2 - (c)}{2 \times 12 \times 8}$$

$$\Rightarrow \qquad \frac{1}{2} = \frac{144 + 64 - (c)^2}{192}$$

$$\Rightarrow \qquad \frac{1}{2} = \frac{208 - c^2}{192}$$

$$\Rightarrow 416 - 2c^2 = 192$$

$$\Rightarrow \qquad 2c^2 = 416 - 192$$

$$\Rightarrow \qquad 2c^2 = 224$$

$$\Rightarrow \qquad c^2 = 112$$

$$\Rightarrow \qquad c = \sqrt{112} = 10.58$$

$$\Rightarrow \qquad c = 10.58 \approx 10$$

$$\Rightarrow \qquad c = 10 \text{ cm}$$

84. Successive discount of 20% and 10% is given on an item of ₹ 700, find the selling price.

(a) 504   (b) 196

(c) 582   (d) 601

Sol. *(a)* Here, $r_1 = 20\%$, $r_2 = 10\%$ and marked price = ₹ 700

$$\therefore \text{ SP of an item} = 700\left(\frac{1-20}{100}\right)\left(\frac{1-10}{100}\right)$$

$$= 700 \times \frac{80}{100} \times \frac{90}{100}$$

$$= 7 \times 8 \times 9 = ₹ 504$$

85. The population of a state is 20000. It increases by 20% during the first year and 30% during the second year. The population after two years will be

(a) 32000   (b) 40000

(c) 31200   (d) 30000

Sol. *(c)* Population after two years

$$= 20000\left(1 + \frac{20}{100}\right)\left(1 + \frac{30}{100}\right)$$

$$= 20000 \times \frac{120}{100} \times \frac{130}{100}$$

$$= 2 \times 120 \times 130 = 31200$$

86. A reduction of 20% in the price of rice enable a buyer to buy 5 kg more for ₹ 1200. The reduced price per kg of rice will be

(a) 36   (b) 45

(c) 48   (d) 60

Sol. *(c)* Let, initial price of rice = ₹ x per kg

Now, a reduction of 20% in price,

Reduced price of rice $= x \times \dfrac{80}{100} = ₹ \dfrac{4x}{5}$ per kg

Now, according to the question,

$$\frac{1200}{\frac{4x}{5}} - \frac{1200}{x} = 5$$

$$\Rightarrow \qquad \frac{6000}{4x} - \frac{1200}{x} = 5$$

$$\Rightarrow \qquad \frac{1500}{x} - \frac{1200}{x} = 5$$

$$\Rightarrow \qquad \frac{300}{x} = 5$$

$$\Rightarrow \qquad x = \frac{300}{5} = 60$$

$$\Rightarrow \qquad x = ₹ 60$$

∴ Reduced price of rice $= \dfrac{4x}{5} = \dfrac{4 \times 60}{5}$

$$= ₹ 48 \text{ per kg}$$

87. A man spends 60% of his income on different expenditures. His income is increased by 20% and his expenditure also increased by 10%. Find the percentage decrease in his saving.
(a) 10% (b) 15% (c) 20% (d) 25%

Sol. (a) Let, income of a person = ₹ 100

∵ Spend on different expenses = ₹ 60

∴ Total saving = 100 − 60 = ₹ 40

Now, income after increment of 20%

$= \dfrac{120}{100} \times 100 = ₹ 120$

and expences after increment of 10%

$= 120 \times (60 + 10)\%$

$= 120 \times \dfrac{70}{100} = ₹ 84$

∴ New saving = 120 − 84 = ₹ 36

Now, percentage decrease $= \left(\dfrac{40 - 36}{40}\right) \times 100$

$= \dfrac{4}{40} \times 100 = \dfrac{100}{10} = 10\%$

88. A train 150 m long passes a telegraphic post in 12 sec. Find the speed of the train.
(a) 50 km/h (b) 12.5 km/h
(c) 25 km/h (d) 45 km/h

Sol. (d) Length of train = 150 m

Time = 12 s

∴ Speed of train $= \dfrac{150}{12}$ m/s $= \dfrac{150}{12} \times \dfrac{18}{5} = 45$ km/h

89. A number when divided by 6 leaves remainder 3. When the square of the same number is divided by 6, the remainder is
(a) 0 (b) 2
(c) 1 (d) 3

Sol. (d) Number = 6P + 3

Square of number = $(6P + 3)^2$

$= 36P^2 + 9 + 36P$

$= 36P^2 + 36P + 6 + 3$

$= 6(6P^2 + 6P + 1) + 3$

Square of number is divided by 6, we get 3 remainder.

90. In a parade of school students, the number of boys and girls are in the ratio of 9 : 7 respectively and the total number of boys and girls are 256. Find the number of girls.
(a) 102 (b) 112
(c) 118 (d) 128

Sol. (b) Total number of boys and girls = 256

∴ Number of girls $= \dfrac{7}{(9 + 7)} \times 256$

$= \dfrac{7 \times 256}{16} = 7 \times 16 = 112$

Section C - Reasoning and Logical Deduction

Directions (Q. Nos. 91 and 92) *Find the missing number letter from the given alternatives.*

91. AEN, MQZ, CGP, ?
(a) OSB (b) PUE
(c) MPX (d) OTC

Sol. (a)

$A \xrightarrow{+12} M \xrightarrow{-10} C \xrightarrow{+12} O$
$E \xrightarrow{+12} Q \xrightarrow{-10} G \xrightarrow{+12} S$
$N \xrightarrow{+12} Z \xrightarrow{-10} P \xrightarrow{+12} B$

92. 0, 4, 18, 48, ? , 180
(a) 58 (b) 68
(c) 84 (d) 100

Sol. (d)

93. Apes : Gibber :: Camels: ?
(a) Grunt (b) Cheep
(c) Bleat (d) Whine

Sol. (a) As, the sound of Apes is known, as Gibber, similarly sound of camels is known as Grunt.

94. TSR : FED :: WVU : ?
(a) CAB (b) MLK
(c) PQS (d) GFH

Sol. (b) As,

T S R → F E D

Same as, W V U → M L K

95. 7 : 32 :: 28 : ?
(a) 126 (b) 136
(c) 116 (d) 128

Sol. (c) As,

$$7 \longrightarrow 32$$
$$\times 4 + 4$$

Same as,

$$28 \longrightarrow \boxed{116}$$
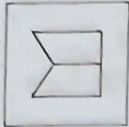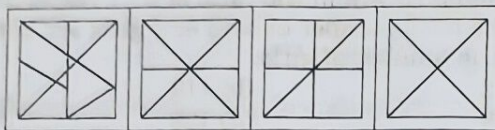$$\times 4 + 4$$
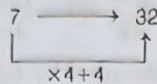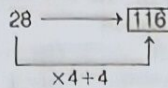
96. Which of the following has the given figure embedded in it?
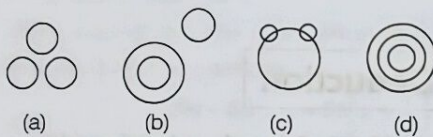
Question Figure

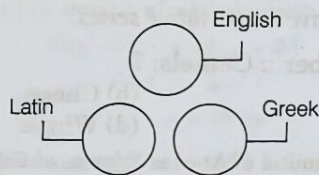**Answer Figures**

(a) (b) (c) (d)

Sol. (b) The given figure is embedded in the figure given in option (b).

97. Which of the following diagram best depicts the relationship among English, Latin and Greek?

(a) (b) (c) (d)

Sol. (a)

English
Latin   Greek

English, Greek and Latin are entirely different from one-another. All three are different language.

98. If 4 * 2 @ 3 = 6, 18 * 6 @ 4 = 12, then what will be the value of 24 * 3 @ 7?
  (a) 21   (b) 27   (c) 72   (d) 56

Sol. (d) Here, sign * implies division and sign @ implies multiplication

$4 \div 2 \times 3 = 6$, $18 \div 6 \times 4 = 12$

Therefore, $24 \div 3 \times 7 = \boxed{56}$

99. If ÷ means +, − means ÷, × means − and + means ×, then $32 \div 8 - 4 \times 12 + 4$ is equal to
  (a) 12   (b) 1/12
  (c) 40   (d) −14

Sol. (d) $32 \div 8 - 4 \times 12 + 4 = 32 + 8 \div 4 - 12 \times 4$

$= 32 + 2 - 12 \times 4 = 32 + 2 - 48 = -14$

100. If CARPET is coded as TCEAPR, then the code for NATIONAL would be
  (a) NLATNOIA   (b) LANOITAN
  (c) LNAANTOI   (d) LNOINTAA

Sol. (c) Letters of the basic word are written in the coded word in such a way that last and first letters, second last and second letters, third last and third letters and so on are written together in the coded word.

101. Arrange the following words as per in a dictionary by choosing the correct alternative.
  1. Grind   2. Growth
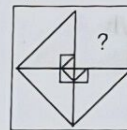 3. Great   4. Grease
  5. Greet
  (a) 4, 3, 5, 1, 2   (b) 2, 1, 4, 5, 3
  (c) 5, 3, 2, 4, 1   (d) 5, 4, 1, 2, 3

Sol. (a) The arrangement according to dictionary is as follows
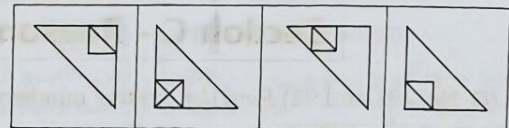
Grease, Great, Greet, Grind, Growth
  (4)   (3)   (5)   (1)   (2)

102. Which one of the given figure completes the given figure?

Question Figure
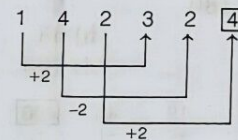
Answer Figures

(a) (b) (c) (d)

Sol. (d) Option figure (d) will be complete the given question figure.

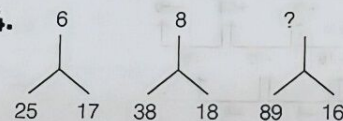**Directions** (Q. Nos. 103 and 104) *Find the missing number from the given alternatives.*

103. 1, 4, 2, 3, 2, ?
  (a) 2   (b) 5   (c) 3   (d) 4

Sol. (d)

1   4   2   3   2   4
  +2   +2
     −2

104.

6   8   ?
25 17   38 18   89 16
  (a) 13   (b) 15   (c) 17   (d) 19

Sol. (b) As,

$25 + 17 = 42$

$$\Rightarrow \quad \frac{42}{7} = 6$$

and $\quad 38 + 18 = 56$

$$\Rightarrow \quad \frac{56}{7} = 8$$

Same as, $89 + 16 = 105$

$$\Rightarrow \quad \frac{105}{7} = 15$$

105. In this question, a statement is followed by assumptions I and II. You have to consider the statements to be true even if they seem to be at variance from the commonly known facts. You have to decide, which of the following assumptions logically follows from the given statement.

Statement Only good singers are invited in the conference. No one without sweet voice is a good singer.

Assumption I All invited singers in the conference have sweet voice.

Assumption II Those singers who do not have sweet voice are not invited in the conference.

(a) Only I follows
(b) Neither I nor II follows
(c) Both I and II follow
(d) Only II follows

Sol. (c) On the basis of given statements, we could say that both assumptions I and II follow.

106. John, in the morning, started walking towards North and then turn towards opposite side of the Sun. He then turn left again and stops. Which direction is he facing now?

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

Sol. (c) Walking diagram of John is as follows
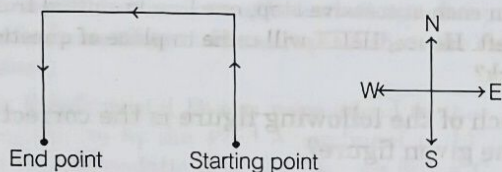
If is clear from diagram that john is in facing South direction now.

107. If $64 + 7 = 460$ and $25 + 8 = 212$, then $43 + 8 = ?$

(a) 360
(b) 376
(c) 332
(d) 356

Sol. (d) As, $\quad 64 + 7 = 460$

$$\Rightarrow \quad 64 \times 7 + 12 = 460$$

and $\quad 25 + 8 = 212$

$$\Rightarrow \quad 25 \times 8 + 12 = 212$$
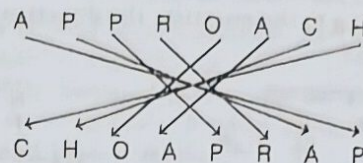
Same as, $43 + 8 = ?$

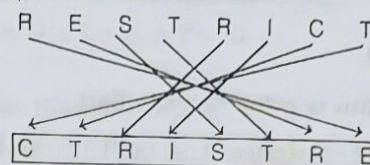$$\Rightarrow \quad 43 \times 8 + 12 = 356$$

$$\therefore \quad ? = 356$$

108. In a certain code language, APPROACH is coded CHOAPRAP. How will RESTRICT be coded?

(a) CTRISTER
(b) ERTSIRTC
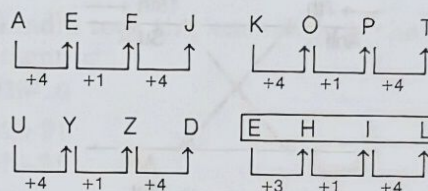(c) CTRISTRE
(d) TCIRSTUM

Sol. (c) As,

Same as,

Directions (Q. Nos. 109-111) *Find the odd words/letters/numbers from the given alternatives.*

109. (a) AEFJ   (b) KOPT
(c) UYZD   (d) EHIL

Sol. (d)

110. (a) 81 : 243   (b) 16 : 64
(c) 64 : 192   (d) 25 : 75

Sol. (b)

$$81 \xrightarrow{\times 3} 243 \quad ; \quad \boxed{16 \xrightarrow{\times 4} 64}$$

$$64 \xrightarrow{\times 3} 192 \quad ; \quad 25 \xrightarrow{\times 3} 75$$

111. (a) Distinguish   (b) Scatter
(c) Differentiate   (d) Classification

Sol. (a) Except distinguish, all others are related to separation or segregation.

112. Select the correct combination of mathematical signs to replace * signs and to balance the following equation $8 * 8 * 1 * 7 = 8$

(a) $\times \div +$ (b) $+ \div \times$
(c) $\div \times +$ (d) $+ \times \div$

Sol. (c) Let us check all the option one by one.

From option (a) $8 \times 8 \div 1 + 7 = 64 + 7 = 71 \neq 8$

From option (b), $8 + 8 \div 1 \times 7$

$$\Rightarrow \quad 8 + 56 = 64 \neq 8$$

From option (c), $8 \div 8 \times 1 + 7$

$$= 1 \times 1 + 7 = 8 = 8$$

From option (d,) $8 + 8 \times 1 \div 7$

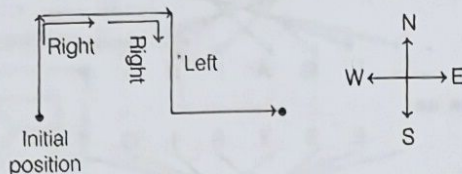$$\Rightarrow \quad 8 + \frac{8}{7} = \frac{64}{7} \neq 8$$

$\therefore$ Option (c) is correct.

113. Ritu is going Northwards. She turns right, moves some distance and again turns to her right. After moving some distance she turns to her left. In which direction now is the going?
(a) East   (b) West
(c) South   (d) North

Sol. (a) According to the question, the direction diagram can be drawn as,
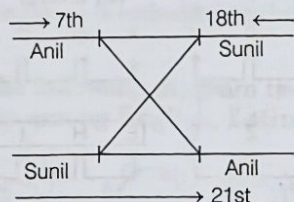

Clearly, Ritu is going towards East.

114. In a row of students, Anil is 7th from left, while Sunil is 18th from right. Both of them interchanged their positions such that Anil becomes 21st from left. What will be the total number of students in the class?
(a) 38   (b) 33   (c) 31   (d) 30

Sol. (a)

Total number of students $= (21 + 18 - 1) = 38$

115. Pointing to a photograph, man said, "I have no other or sister but that man's father is my father's son" chose photograph was it?
(a) His own   (b) His son
(c) His father   (d) His nephew

Sol. (b) Since, the narrator has no brother or sister, his father's son means himself. So, the man who is talking is the father of the man in the photograph. Thus, the man in the photograph is his son.

Directions (Q. Nos. 116 and 117) *In the following questions a statement is followed by two conclusions I and II. Taking the statement to be true decide which of the given conclusions difinitely follows from the given statement.*

116. **Statement** In a one day cricket match, the total runs made by a team were 200. Out of these, 160 runs were made by spinners.
Conclusions
I. 80% of the team consists of spinners.
II. The opening batsmen were spinners.
(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Neither I nor II follows
(d) Both I and II follow

Sol. (c) According to the statements, 80% of the total runs were made by spinners. So, I does not follow. Nothing about the opening batsmen is mentioned in the statement. So, statement II also does not follow.

117. **Statement** The old order changed yielding place to new
Conclusions
I. Change is the law of nature.
II. Discard old ideas because they are old.
(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Either I or II follows
(d) Both I and II follow

Sol. (a) Clearly, I directly follows from the given statement. Also, it is mentioned that old ideas are replaced by new ones, as thinking changes with the progressing time. So, II does not follow.

118. Five friends P, Q, R, S and T are sitting in a row facing North. Here, S is between T and Q and Q is to the immediate left of R. P is to the immediate left of T. Who is in the middle.
(a) S (b) T (c) Q (d) R

Sol. (a) Arrangement according to the questions is as follows
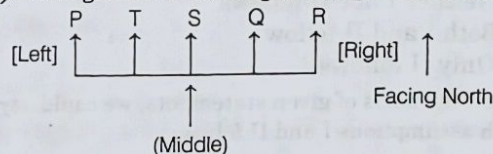
∴ S is in the middle of the row.

119. A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
XIIIII, IXIIII, IIXIII, IIIXII, IIIIXI, ?
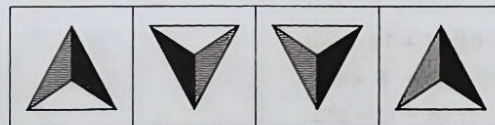(a) IIIIXII   (b) IIIIXI   (c) IIIIIX   (d) XIIIIX

Sol. (c) In each successive step, one line is shifted from right to left. Hence, IIIIIX will come in place of question mark?

120. Which of the following figure is the correct mirror of the given figure?
Question figure

Answer Figures

Sol. (a) Figure given in option (a) is the correct mirror image of the given question figure.

Section - D General Knowledge and Current Affairs

121. Who presides over the Joint Session of both the Houses of the Parliament in India?
(a) The President of India
(b) The Prime Minister of India
(c) The Speaker of the Lok Sabha
(d) The Vice-President of India

Sol. (c) The Speaker of Lok Sabha presides over the Joint Session of both the Houses of the Parliament in India. Hence, option (c) is the correct answer.

By virtue of power granted to President under Article 108, he may call the joint sitting of the Parliament. The joint meeting is presided over by the Speaker or in his absence, by the Deputy Speaker of the Lok Sabha or in their absence, the Deputy-Chairperson of the Rajya Sabha. Joint sitting of Parliament is a constitutional mechanism to break the deadlock between Rajya Sabha and Lok Sabha.

122. Ocean current are primarily caused by
(a) Difference in temperature
(b) Wind blowing over the sea surface
(c) Irregular shape of the continents
(d) Difference in salinity

Sol. (b) Ocean currents are primarily cuased by wind blowing over the sea surface. Hence, option (b) is the correct answer.

Ocean currents are the continuous flow of the huge amount of water in a definite direction. Ocean currents can also be classified based on temperature as cold currents and warm currents.

123. Fundamental Duties of Indian citizens are provided by
(a) 41st Amendment   (b) 42nd Amendment
(c) 43rd Amendment   (d) 44th Amendment

Sol. (b) Fundamental duties of Indian citizens are provided by 42nd amendment. Hence, option (b) is the correct answer.

The Fundamental Duties were added to the Constitution by the 42nd Amendment in 1976, upon the recommendations of the Swaran Singh Committee. By the 42nd Constitution (Amendment) Act, 1976, a new Chapter IV-A containing Article 51-A was added to the Constitution. The Amendment added ten Fundamental Duties and the 11th fundamental duty was added by the 86th Constitutional Amendment.

124. Which of the following is the basis for determining National Income?
(a) Total revenue of the state
(b) Production of goods and services
(c) Net profits earned and expenditure incurred by the states
(d) None of the above

Sol. (b) Production of goods and services is the basis for determining National Income. It is calculated by the total value of goods and services produced in the country. Hence, option (b) is the correct answer.

The sum of total income received for the services of labour, land or capital in a country is called National Income (NI). National Income can be calculated through three methods: Product method, Expenditure method and Income method.

Formula to calculate National Income

$$NI = C + G + I + X + F - D$$

Where,

C denotes the Consumption,

G denotes the Government expenditure,

I denotes the Investments,

X denotes the Net Exports (Exports minus Imports),

F denotes the National Resident's Foreign Production,

D denotes the Non-National Resident's Domestic Production

125. MK Gandhi took the leadership of the National Movement in
(a) 1919-20
(b) 1920-21
(c) 1930-31
(d) 1910-11

Sol. (a) MK Gandhi took the leadership of the National Movement (Khilafat Movement) in 1919-20. Hence, option (a) is the correct answer.

Mahatma Gandhi arrived India in 1915 from South Africa. At first, he spent a year exploring different places in India to understand the situation. Mahatma Gandhi's political activity began in the period of 1917-18, when he dealt with the issues of the Champaran Indigo Farmers (1917), the Ahmedabad Textile Workers (1918) and the Kheda Peasants (1918).

126. The Moti Masjid was built by Shah Jahan at
(a) Fatehpur Sikri
(b) Delhi
(c) Lahore
(d) Agra

Sol. (d) The Moti Masjid was built by Shah Jahan at Agra in 1655. Hence, option (d) is the correct answer.

Shah Jahan (1628–58) was a Mughal emperor. He is also best remembered for his architectural achievements. He built Taj Mahal in Agra which was erected in the memory of his wife Mumtaz Mahal and he also built a famous Mosque Jama Masjid in Delhi. In 1648, he transferred his capital from Agra to Delhi and created the new city of Shahjahanabad.

127. Hardwood trees like sal, teak, neem and shisham are found in
   (a) Tropical Evergreen Forest
   (b) Montane Forest
   (c) Tropical Semi-evergreen Forest
   (d) Tropical Deciduous Forests

Sol. *(d)* Hardwood trees like sal, teak, neem and shisham are found in Tropical deciduous forests. Hence, option (d) is correct. These trees are mainly used for making furniture, transport and construction material. Tropical deciduous forests are found in region which receives rainfall between 100-150 cm. The trees of this forest shed their leaves during dry season.

128. The Reserve Bank of India was established in which year?
   (a) 1930   (b) 1935   (c) 1940   (d) 1956

Sol. *(b)* The Reserve Bank of India was established on 1st April, 1935 in accordance with the Reserve Bank of India Act, 1934. Hence, option (b) is correct. It was nationalised in the year 1949. It acts as a banker to Central Government. It is also responsible for the issue and supply of the Indian rupee and the regulation of the Indian banking system.

129. Which among the following is the unit of measurement of the "Ecological Footprint"?
   (a) Global Hectare   (b) Gallon Per Capita
   (c) Cubic meter   (d) Man Hour

Sol. *(a)* Global hectare is used to measure the ecological foot print as well as biocapacity of entire Earth. Hence, option (a) is correct. In terms of Ecological Footprint, one global hectare refers to average productive land and water that an individual, population or entity requires producing all the resources it consumes.

130. Administration of Union Territories is dealt in
   (a) Part VIII of the Constitution
   (b) Part IX of the Constitution
   (c) Part X of the Constitution
   (d) Part XI of the Constitution

Sol. *(a)* Administration of Union Territories Part VIII of the Indian Constitution (Article 239 to 242). Hence, option (a) is the correct answer.

Administration of Union Territories has been provided under Article 239 of the Constitution of India. The Seventh Constitution Amendment Act of 1956 replaced the States in Part C and Territories in Part D of the First Schedule by the 'Union Territories'. At present, there are eight Union Territories in India.

131. Shivaji was crowned as an independent king at
   (a) Rajgarh   (b) Surat
   (c) Ahmedabad   (d) Poona

Sol. *(a)* Shivaji was crowned as an independent king at Rajgarh, in 1674. Hence, option (a) is the correct answer.

Shivaji (1630-1680) was also known as Chhatrapati Shivaji Maharaj. He was an Indian Maratha ruler who challenged Mughals. He helped people who wanted to convert to Hinduism.

He also promoted Hindu and Sanskrit political traditions. Shivaji was known for Treaty of Purandar in 1665. He was also considered a master of the Guerrilla Warfare.

132. One hundred years before the War of Independence (1857), a battle fought where destiny of India changed drastically. Identify
   (a) Second Battle of Panipat
   (b) First Battle of Haldighati
   (c) Battle of Jhansi
   (d) Battle of Plassey

Sol. *(d)* The Battle of Plassey was fought one hundred years before the War of Independence (1857), where the destiny of India changed drastically. Hence, option (d) is the correct answer.

Battle of Plassey was fought on 23rd June, 1757, in Plassey on the banks of Hooghly river between British East India Company and the Nawab of Bengal, Siraj-ud Daulah and his French allies. It was fought under the leadership of Robert Clive. Britishers won the battle. The battle enabled the East India Company to take control of Bengal.

133. Which among the following is the dangerous Green House Gas, created by the waste water?
   (a) Nitrogen
   (b) Sulfur Dioxide
   (c) Methane
   (d) Carbon Dioxide

Sol. *(c)* Methane gas is produced by the decomposition of organic waste in an oxygen-free environment. Hence, option (c) is correct. The treatment and handling of waste water also produces methane.

134. In humans, the sound is produced by the which of the following?
   (a) epiglottis   (b) oesophagus
   (c) larynx   (d) medulla

Sol. *(c)* The larynx is another name for the voice box. Hence, option (c) is correct. It's a tube about 2 inches (5 cm) long in adults. It sits above the windpipe (trachea) in the neck and in front of the food pipe.

135. What is study of fungus known as?
   (a) Phrenology   (b) Physiology
   (c) Biology   (d) Mycology

Sol. *(d)* Mycology is the branch of biology concerned with the study of fungi. Hence, option (d) is correct. It also includes their genetic and biochemical properties, their taxonomy and their use to humans as a source for tinder, medicine, food and entheogens, as well as their dangers, such as toxicity or infection.

136. Which of the following rivers is not South-flowing?
   (a) Damodar   (b) Chambal
   (c) Kosi   (d) Gadadhar

Sol. (b) Chambal river is not a South-flowing river. Hence, option (b) is the correct answer.

Chambal river flows through Madhya Pradesh, Rajasthan and Uttar Pradesh. It originates at Janapav hills, South of Mhow (Madhya Pradesh) and drains into the Yamuna river at Jalaun (Uttar Pradesh).

Damodar river is a South flowing river that originates in Jharkhand and drains into Hooghly river at Howrah (West Bengal). It is also referred as 'Sorrow of Bengal'.

The Kosi river originates at Triveni (Nepal) and flows southwards to drain into Ganga near Kursela (Bihar). It is known as 'Sorrow of Bihar'.

137. Which of the following is an air to ground missile?
(a) Prithvi (b) Bofors (c) Agni (d) Akash

Sol. (d) Akash is an air to ground missile. Hence, option (d) is the correct answer.

Akash missile was built by Defense Research and Development Organisation (DRDO) under the Integrated Guided-Missile Development Programme (1983). It has a range of 50.80 km.

138. Where is the headquarters of INTERPOL?
(a) Paris   (b) London
(c) G eva   (d) Lyon

Sol. (d) Tne headquarters of INTERPOL is located in Lyon, France. Hence, option (d) is the correct answer.

INTERPOL (International Criminal Police Organisation) is an international organisation which supports police and law enforcement agencies and controls crime in the world. It was founded in 1923 by Johannes Schober, former Chancellor of Austria.

139. 'Petroleum' can be categorised under which one of the following terms?
(a) Elements   (b) Hydrocarbons
(c) Polymers   (d) Salts

Sol. (b) Petroleum, a complex mixture of hydrocarbons that occur in Earth in liquid, gaseous or solid form. Hence, option (b) is correct. The term is often restricted to the liquid form, commonly called crude oil, but, as a technical term, petroleum also includes natural gas and the viscous or solid form known as bitumen, which is found in tar sands.

140. Which of the following is also used as a dry lubricant?
(a) Graphite
(b) Diamond
(c) Alpha sulphur
(d) Beta Sulphur

Sol. (a) Graphite is also used as a dry lubricant. Hence, option (a) is correct. Dry lubricants are those materials that despite being in the solid phase, are able to reduce friction between two surfaces sliding against each other without the need for a liquid oil medium.

141. What is the effect on apparent frequency when the distance between the source of the sound and listener is decreased?
(a) It increases   (b) It decreases
(c) It remains same   (d) None of these

Sol. (a) As per the Doppler's effect, when the distance between the source and the listener decreases, the apparent frequency increases. Hence, option (a) is correct. It means the apparent frequency is more than the actual frequency of sound.

142. Which of the following is the first state to have been formed on linguistic basis?
(a) Gujarat   (b) Andhra Pradesh
(c) Punjab   (d) Karnataka

Sol. (b) Andhra Pradesh is the first state to have been formed on linguistic basis to safeguard the rights of the Telugu people of Madras state. Hence, option (b) is the correct answer.

After the creation of Andhra Pradesh, the Fazl Ali Commission (1953) was formed under the chairmanship of Fazl Ali. The Commission's recommendations were focused on the reorganisation of the state on the basis of linguistic criteria.

The state, Andhra Pradesh was formed on 1st November, 1956. It is the seventh largest state in India. The official language of Andhra Pradesh is Telegu. It borders Odisha to the North-East, Telangana to the North-West, Karnataka to the West, Chhattisgarh to the North, Bay of Bengal to the East and Tamil Nadu to the South.

143. Equality before law and equal protection of law is dealt with/in Article
(a) 13 of the Constitution (b) 14 of the Constitution
(c) 15 of the Constitution (d) 16 of the Constitution

Sol. (b) Equality before law and equal protection of law is dealt with/in Article 14 of the Indian Constitution. Hence, option (b) is the correct answer.

Article 14 provides that the State shall not deny to any person equality before the law or the equal protection of the laws within the Territory of India.

Article 13 states that laws which are consistent with or in derogation of the Fundamental Rights shall be void.

Article 15 prohibits discrimination on grounds of religion, race, caste, sex or place of birth.

Article 16 provides equal opportunity in matters of public employment.

144. The Mahadeo hills is located in which part of India?
(a) Central India   (b) Eastern India
(c) Eastern Ghats   (d) Western Ghats

Sol. (a) The Mahadeo hills are a range of sandstone hills located in Central India. Hence, option (a) is correct. These hills are located in the Northern part of Satpura range. Hence, option (a) is the correct answer.

The cave shelters found in the Mahadeo hills contains some of the earliest evidence of rock paintings in India. Dhupgarh is the highest point in the Mahadeo hills with a height of 1352 meters.

145. Asia's longest high-speed track for automobiles has been inaugurated in which Indian city?
(a) Delhi (b) Ahmedabad
(c) Telangana (d) Indore

Sol. (d) Union Minister of Heavy Industries and Public Enterprises Prakash Javadekar on 29th June, 2021 inaugurated NATRAX- the High-Speed Track (HST) for automobiles in Indore. Hence, option (d) is correct. The track is the longest such track in Asia and the world's fifth-longest.

146. Who has become the first woman of colour to win the Oscar for Best Director?
(a) Thomas Vinterberg (b) Lee Isaac Chung
(c) Chloe Zhao (d) Emerald Fennell

Sol. (c) Chloe Zhao won the Oscar for Best Director for the film Nomadland at the 93rd Annual Academy Awards on 25th April, 2021. Hence, option (c) is correct. She became the first woman of colour, first Chinese woman and second woman-ever to win the award.

147. Which country has become the first country to complete the official ratification process of RCEP agreement?
(a) Thailand (b) Vietnam
(c) Singapore (d) Philippines

Sol. (c) Singapore has become the first country to complete the official process for ratification of the Regional Comprehensive Economic Partnership (RCEP) agreement. Hence, option (c) is correct.

148. The largest fish-exporting region of the world is
(a) North-East Pacific Region
(b) North-East Atlantic Region
(c) North-West Pacific Region
(d) South-East Asian Region

Sol. (c) The largest fish-exporting region of the world is North-West Pacific Region. Hence, option (c) is the correct answer.

This region is also called as Cascadia. It is a geographic region in Western North America bounded by the Pacific Ocean to the West and Rocky Mountains on the East.

149. Which of the following is the use of Aspirin drug?
(a) Reduces fever
(b) Helps in skeletal pain
(c) Helps in preventing heart attacks
(d) All of the above

Sol. (a) Aspirin is effective in relieving skeletal pain such as that due to arthritis and in reducing fever (antipyretic). Hence, option (a) is correct. Because of its anti-blood clotting action, aspirin finds use in the prevention of heart attacks.

150. Which of the following electromagnetic waves in the EM spectrum has the highest wavelength?
(a) X-rays
(b) Visible
(c) Infrared
(d) UV-rays

Sol. (c) The electromagnetic spectrum when arranged from longest wavelength to shortest includes radio waves, microwaves, infrared, optical, ultraviolet, X-rays and gamma-rays. Hence, option (c) is correct.

Section E- Aptitude for Service Sector

151. If you want to start with something new and you have little saving and few employees, what will be your first priority?
(a) Generate cash flow
(b) Figure out what business to be in
(c) Launch products
(d) Develop customers

Sol. (b) If any one starts a new business and has little savings and few employees then she/he has to figure out what business/activity they should start.

152. A football match is going on and you like one team but your group favours the other one, then
(a) you will become neutral
(b) you will try to persuade other members to like your team better
(c) you will cheer for the team the group favours
(d) you will stick to your own favourite

Sol. (d) A football match is going on and a person likes one team but his group favours the other one. In this scenario, that person should stick to his/her favourite team.

153. While returning home from a far away place you find that your pocket has been picked. You would
(a) try to hitch-hike till home
(b) hire a taxi and pay on reaching home
(c) go to the nearest police station and lodge an FIR
(d) call home and ask someone to pick you from the place you make the phone call

Sol. (b) While returing home from a far away place if anyone's pocket has been picked. Then, they should hire a taxi and pay on reaching home.

154. The newspaper hawker comes late in the morning and therefore, you go to work without reading the newspaper. You would

(a) give him a piece of your mind and tell him to deliver the newspaper early in the morning

(b) stop taking newspaper from the very next day

(c) not pay him in time

(d) apprise him about your problem

Sol. *(d)* The newspaper hawker comes late in the morning and therefore, a person has to go to work without reading the newspaper. In this case, a person should apprise him about his/her problem.

155. You want respect and reputation in the society. Then, what would you consider the right action to be?

(a) Develop friendly relationships with all the persons

(b) Keep on interacting with all the respected persons

(c) Develop strong relationships with anti-social people so that all the people give you respect and treat you as a reputed person

(d) For sake your personal selfish interests and work for the benefit of the masses

Sol. *(a)* In order to get respect and reputation in the society, a person need to develop friendly relationship with all the persons.

156. You get up late in the morning and your neighbour utilises this opportunity to read your newspaper. You would

(a) try to get up early in the morning so that you yourself read the newspaper

(b) tell him that he should foot-half of the bill of newspapers

(c) tell him to quickly read the newspaper and return it to you

(d) tell him that he himself should buy the newspaper and read it

Sol. *(c)* As I get up late in the morning and my neighbour utilises this opportunity to read newspaper. Then, I would tell him that he should read the newspaper and return it me.

157. If one of your close friends does not look after his old parents who stay with him, you would

(a) feel that old people have got to live on their own

(b) feel that it may not be possible for your friend to do the needful for his parents due to certain problem

(c) tell your friend strongly that what he is doing is not quite correct

(d) like to tell your friend casually about this issue

Sol. *(c)* If one of my close friends does not look after his old parents who stay with him. Then, I will tell my friend that what he is doing is not quite correct.

158. When a new person joins your department in the office, you fell

(a) your boss should call you and introduce him to you

(b) you should go and meet him and help him, if he needs any help

(c) you must ignore him totally

(d) he must come and introduce himself to you

Sol. *(b)* When a new person joins my department in the office, in this condition, I should go and meet him and help him, if he needs any help.

159. When you are having a walk along the sea-shore, you notice a man drowning and shouting for help. You will

(a) draw the attention of others and keep on walking

(b) not like to get involved and continue your walk

(c) go into the water to help him, as you know swimming

(d) raise an alarm and request some other swimmer to help him

Sol. *(c)* While having a walk along the sea-shore, if I notice a man drowning and shouting for help, then I will go immediately into the water, as I know swimming.

160. While walking on the road, you find an envelope which contains an Aadhar Card. You will

(a) leave the envelope there only and move on

(b) post the Aadhar Card to the address of its owner

(c) give the envelope to your friend and ask him to deal with it

(d) curse the owner of the card and call him extremely careless

Sol. *(b)* While walking on the road, I found an envelope which contains an Aadhar Card. Then, I will post the Aadhar Card to the address of its owner as it does not involve expenditure of very high amount.

161. For efficient guest relations executive must have

(a) a pleasant personality and skills of courteous behaviour

(b) good controlling ability

(c) good planning skills

(d) None of the above

Sol. *(a)* For efficient guest relations executive must have a pleasant personality and skills of courteus behaviour.

162. If someone involves you in an argument. Then what is your (expected) behaviour towards him?
(a) You will not hesitate in arguing with him
(b) You will try to get rid of him
(c) You will try to learn a lesson or two from the person who is arguing
(d) You will not take interest in the person who is arguing

Sol. *(c)* If someone involves me in an argument. Then, I will try to learn a lesson or two from the person who is arguing.

163. While expressing your views on an important subject, you
(a) want to avoid expressing in a diplomatic way
(b) convey a truthful answer, but in a diplomatic way
(c) express what comes to your mind at the spur of the moment
(d) look for opinions expressed by other people and then speak

Sol. *(d)* While expressing my views on an important subject, I will look for opinions expressed by other people, then speak.

164. When you are not capable of taking a decision, then whose suggestion or advice you would like to take?
(a) Of your close relatives
(b) Of your parents
(c) Of your friends
(d) Of all those mentioned above

Sol. *(d)* If a person is not capable of taking his/her decision, then one should take suggestion or advice from parents, friends and close relatives.

165. You are a member of the sports- team of your college. One day due to misunderstanding other members stop talking to you. You would
(a) wait till they come and start talking again
(b) go forward, sort out the misunderstanding
(c) keep to yourself and let things take their time for improving
(d) ask someone to mediate

Sol. *(b)* Being a member of the sports team of my college, if due to some misunderstanding other players of team have stopped talking with me, then I will go forward and try to find out the problem and sort out it.

166. You got less marks than expected in the examination, which has jeopardised your chances for further studies. You would
(a) doubt the evaluation of the papers
(b) forget about further studies and take up a job
(c) try to take up a job and go for further studies through correspondence course
(d) change your discipline and go for some easier courses

Sol. *(c)* If a person gets less marks than expected in the examination, which has jeopardised his/her chances for further studies. Then, one should try to take up a job and go for further studies through correspondence course.

167. A friend of yours, who stays along with you, has the habit of remaining awake late in the night. Due to this habit of your friend, your sleep is disturbed. You will
(a) motivate him to sleep early
(b) tell him that he should take care of his health and sleep on time
(c) apprise him of the diseases that can arise by being awake late in the night
(d) give him information about the rules that lead to good to health

Sol. *(a)* A friend of mine, who stays along with me, has the habit of remaining awake late in the night. Due to his habit, my sleep is disturbed. In this situation, I will motivate him to sleep early.

168. The responsibility of hospitality of the guest or looking after their smooth and enjoyable stay in a hotel lies on the shoulders of
(a) General Manager
(b) Guest Relations Executive
(c) Floor Supervisor
(d) None of the above

Sol. *(b)* The responsibility of hospitality of the guest or looking after their smooth and enjoyable stay in a hotel lies on the shoulder of guest relations executive.

169. In an interview you are asked to describe yourself. You
(a) use monosyllables to do so
(b) go ahead full steam
(c) fumble as it is embarrassing to talk about yourself
(d) paint an unrealistic positive picture

Sol. *(b)* In an interview if a person is asked to describe him/herself. Then one should go ahead with full steam and give all the relevant information.

170. Whenever I join a new group. Then
(a) I am not able to understand them
(b) I take some time to understand people
(c) I feel pretty soon that I have known all of them
(d) I take some time to identify and understand them

Sol. *(b)* Whenever anyone joins a group. Then, it will take some time to understand people.

171. What would you as a manager do to improve employees' communication skills?
  (a) Training workshop by an outside consultant
  (b) Writing organisational documents at a reading level that matches the reading level of most employees
  (c) Engage in 2-way communication with stress on feedback
  (d) All of the above

Sol. (c) As a manager I will engage in 2 way communication with stress on feedback.

172. You are away from your home and studying in another city. Due to an urgent piece of work, your father is not able to send you money in time. Then, you
  (a) fly into a rage
  (b) try to understand his handicaps
  (c) enquire from him by making phone calls
  (d) arrange money from another source and carry on you work

Sol. (d) Due to urgent piece of work, if my father is not able to send money on time. Then, I will arrange money from another source and carry on my work.

173. If someone tries to obstruct your work time and again. You will
  (a) take these events seriously
  (b) take these events in your stride
  (c) try to stop him from obstructing in your affairs
  (d) ask him the reason for obstructing/interfering and give him a suitable reply

Sol. (d) If any person tries to obstruct my work time and again then I will ask him the reason for obstructing and give him suitable reply.

174. If your favourite player is found to be guilty of match fixing, you would
  (a) like a ban to be imposed on this player
  (b) meet highly placed officials in order to save his neck
  (c) like strict punitive measure to be incorporated with respect to such blunders in the rules of the game
  (d) like him to be banned from playing for a period of 5 years

Sol. (a) If my favourite player is found to be guilty of match fixing, then I would like a ban to be imposed on him.

175. In the examination hall, you find that your question paper is too tough to be answered satisfactorily by you. The best thing you can do is
  (a) try cheating from your neighbouring candidate
  (b) leave the paper and walk out.
  (c) try attempting those questions first of which you know something
  (d) force everyone in the hall to boycott the paper

Sol. (c) In the examination hall if I found that question paper is too tough to be answered satisfactorily by me. Then, I will attempt those questions about which I know something.

176. In case of breaking out of a fire in your neighbourhood, you would
  (a) remain apathetic and unconcerned
  (b) immediately call the fire brigade
  (c) try to find out the causes of the fire
  (d) reach the site and do your best to help the victims

Sol. (d) In case of breaking out of a fire in my neighbourhood then I will reach the site and do my best to help the victims.

177. An infectious or contagious disease has been break out spreading in your city you would
  (a) inform the health centres to take necessary action
  (b) help the suffering people
  (c) leave that place and go somewhere else for sometime
  (d) do nothing

Sol. (a) An infection or contagious disease has been break out spread in my city then, I will inform the health centres to take necessary action.

178. While working as a primary school teacher you find a poor student is not able to pay his tuition fee. You will
  (a) take him to the Principal for strict action
  (b) speak to his parents and ask them to pay fee
  (c) find reason for non-payment of fee and then personally help the boy, if needed
  (d) punish him severely in front of the whole class

Sol. (c) While working as a primary school teacher, I found a student is not able to pay his tuition fee. In this scenario, I will find out the reason for non-payment of fee and then personally help the boy, if needed.

179. You see some smoke coming out of the building of your office and come to know that there is fire somewhere. First of all you would
  (a) go out of the building without considering the consequences thereof
  (b) make a noise and inform all
  (c) inform fire brigade in no time
  (d) first use the fire-fighting equipment or do something else to extinguish the fire