TESMUS
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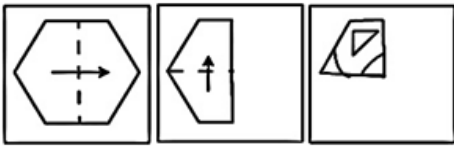| TEST FORM NUMBER	INSTRUCTIONS TO CANDIDATE	**Maximum Marks : 100** **Total Questions : 100** **Time Allowed : 90 Min.**
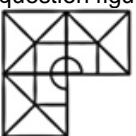
Read the following instructions carefully before you begin to attempt the questions.
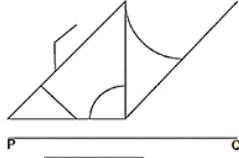
(1) **This booklet contains 100 questions in all comprising the following 5 parts.**

- **Part-(I) : Reasoning Aptitude**　　　　　　　**(25 Questions)**
- **Part-(II) : General Studies**　　　　　　　　**(20 Questions)**
- **Part-(III) : Computer**　　　　　　　　　　**(10 Questions)**
- **Part-(IV) : Quantitative Aptitude**　　　　**(20 Questions)**
- **Part-(V) : English Language**　　　　　　　**(25 Questions)**

(2) All the questions are compulsory and carry equal marks.

(3) Before you start to attempt the questions you must explore this booklet and ensure that it contains all the pages and find that no page is missing or replaced. If you find any flaw in this booklet, you must get it replaced immediately.
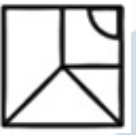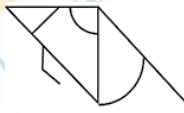
(4) **There will be negative marking of 0.50 marks for each wrong answer.**

(5) You will be supplied the Answer-sheet separately by the invigilator. You must complete the details of Name, Roll number, Test name/Id and name of the examination on the Answer-Sheet carefully before you actually start attempting the questions. You must also put your signature on the Answer-Sheet at the prescribed place. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark.

(6) Answer must be shown by completely blackening the corresponding circles on the Answer-Sheet against the relevant question number by **pencil or Black/Blue ball pen** only.

(7) A machine will read the coded information in the OMR Answer-Sheet. In case the information is incompletely/ different from the information given in the application form, the candidature of such candidate will be treated as cancelled.

(8) The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.

(9) Failure to comply with any of the above Instructions will make a candidate liable to such action/penalty as may be deemed fit.

(10) Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.

(11) Mobile phones and wireless communication device are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature.

(12) No rough work is to be done on the Answer-Sheet.

(13) No candidate can leave the examination hall before completion of the exam.

NAME OF CANDIDATE:...

DATE :.......................... CENTRE CODE :..................

ROLL No :...

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

Reasoning Aptitude

1. Select the related word/letters/numbers from the given alternatives:
   Renminbi : China :: Dirham : ?
   (A) Saudi Arabia   **(B)** Iraq
   (C) U.A.E.   **(D)** Syria

2. A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
   PRT, KMO, FHJ, ?
   (A) EGI   **(B)** BDF
   (C) ACE   **(D)** CEG

3. In the following question, select the related word from the given alternatives.
   Gastrologist : Stomach:: ? : Kidneys
   (A) Pulmonologist   **(B)** Nephrologist
   (C) Neurologist   **(D)** Physiatrist

4. A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

   (A)   **(B)**

   (C)   **(D)**

5. Which answer figure will complete the pattern in the question figure?

   (A)   **(B)**

   (C)   **(D)**

6. A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
   Umbrella, Principle, Train, Friendship, ?
   (A) Hastily   **(B)** Hostile
   (C) Rival   **(D)** Transience

7. Introducing Farah, Iqlaas said- "She is the mother-in-law of the wife of the brother of the only daughter-in-law of my paternal grandmother, who has no daughter". How is Farah related to Iqlaas?
   (A) Maternal Grandmother   **(B)** Paternal grandmother
   (C) Paternal Aunt   **(D)** Maternal Aunt

8. Which of the operators given in the options should replace the "#" (in the same order) in the given expression below:
   6#9# 54#2 # 27
   (A) ×, +, =, =   **(B)** ×, =, =, +
   (C) ×, =, =, ×   **(D)** -, +, =, ×

9. Which is the third word according to dictionary order?
   'Beaucoup',   'Beaujolais',
   'Beaumontia',   'Beaugregory'
   (A) Beaumontia   **(B)** Beaujolais
   (C) Beaugregory   **(D)** Beaucoup

10. If a mirror is placed on the line PQ, then which of the answer figure is the right image of the given figure?

    (A)   **(B)**

    (C)   **(D)**

11. In the following question, two statements are given followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.
    Statements: All stars are lights. All lights are torches.
    Conclusion: I. Some stars are torches.
    II. No lights are stars.
    (A) Only conclusion I follows
    (B) Only conclusion II follows
    (C) Neither conclusion I nor II follows
    (D) Both conclusions I and II follow

12. What will come in place of the question mark (?) in the following series?
    9, 24, 44, 69, 99, ?
    (A) 134   **(B)** 132
    (C) 128   **(D)** 156

13. In the following question, select the missing number from the series.

60	12	5
93	31	3
50	25	?

    (A) 5   **(B)** 8
    (C) 4   **(D)** 2

14. Pointing to B, A said, "He is the only child of my mother-in-law's father-in-law's only child." How is A related to B if B is a male?
    (A) Father   **(B)** Husband
    (C) Wife   **(D)** Daughter

15. A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
    6 18 42 78 ?
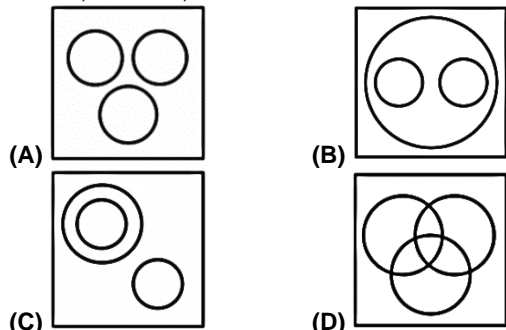   **(A)** 127   **(B)** 116
    (C) 126   **(D)** 130

16. Which of the operators given in the options should replace the "%" (in the same order) in the given expression below:
6%8%4%12
(A) -, =, -   (B) ×, =, +
(C) ×, ÷, =   (D) -, ÷, =

17. Identify the diagram that best represents the relationship among the given classes.
Doctor, Teacher, Mother

(A)   (B)

(C)   (D)

18. In a certain code language, 'ADRENALINE' is written as '@%?#*@+&*#'. How is 'DINNER' written in that code language?
(A) #&**#?   (B) %&**#?
(C) @&++#&   (D) ?&**#?

19. In the following question, two statements are given followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.
Statements: All reds are blues. Some pinks are red.
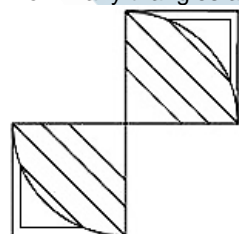**Conclusion: i.** Some blues are pink. **ii.** No pink is blue.
(A) Conclusion I follows
(B) Conclusion II follows
(C) Neither I and II follows
(D) Both conclusion I and II follow

20. Select the related word/letters/number from the given alternatives.
HIN:31::PES: ?
(A) 48   (B) 40
(C) 36   (D) 44

21. How many triangles are there in the given figure?

(A) 10   (B) 8
(C) 12   (D) 6

22. Select the word which will come at fourth position according to dictionary.
(A) fibroblast   (B) fibrinolysin
(C) fibrillate   (D) fiascoes

23. If in a certain language, DEPARTMENT is coded as "7312458365". How is 'PATTERNED' coded in that code?
(A) 122536347   (B) 125511438
(C) 125534637   (D) 125531347

24. A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
Q N K H E ?
(A) D   (B) C
(C) A   (D) B

25. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its column and next by its row, for example, 'L' can be represented by 10, etc., and 'T' can be represented by 89, etc. Similarly you have to identify the set for the word 'RANGE'.

Matrix I

	0	1	2	3	4
0	K	L	G	N	D
1	O	T	V	J	R
2	F	R	B	Y	H
3	A	W	A	U	M
4	C	P	I	S	E

Matrix II

	5	6	7	8	9
5	B	N	G	L	D
6	I	P	U	S	J
7	F	W	A	P	Z
8	K	Z	R	V	O
9	C	M	H	T	E

(A) 78, 23, 56, 20, 99   (B) 14, 32, 03, 02, 44
(C) 41, 03, 30, 75, 98   (D) 12, 23, 30, 20, 44

General Studies

26. Which of the following planet is also known as "Earth's Twin"?
(A) Mars   (B) Venus
(C) Jupiter   (D) Mercury

27. BOD is the amount of dissolved oxygen needed (i.e. demanded) by aerobic biological organisms to break down organic material present in a given water sample. What does "O" stand for in the abbreviation BOD?
(A) Oxidation   (B) Oxygen
(C) Oxidized   (D) Ozone

28. Which of the following state does NOT share boundary with Bangladesh?
(A) Assam   (B) Arunachal Pradesh
(C) Tripura   (D) West Bengal

29. 'Fundamental Duties' are mentioned in which part of Constitution?
(A) Part III   (B) Part IV
(C) Part IVA   (D) Part IIIA

30. What is the minimum escape velocity of rocket to be launched into space?
(A) 5.5 Km/s   (B) 6.2 Km/s
(C) 11.2 Km/s   (D) 18 Km/s

31. 'Sarkaria Commission' is associated with which issue of India?
(A) Tribal Rights Issues   (B) Environmental Issues
(C) Centre-State Issues   (D) Minority Issues

32. "Madhav National Park" is located in which state of India?
(A) Rajasthan   (B) Uttar Pradesh
(C) Chhattisgarh   (D) Madhya Pradesh

33. Choose that place where the headquarters of International Financial Services Centres Authority (IFSCA) located as it has become an associate member of International Organization of Securities Commissions (IOSCO)?
(A) Ahmedabad   (B) Surat
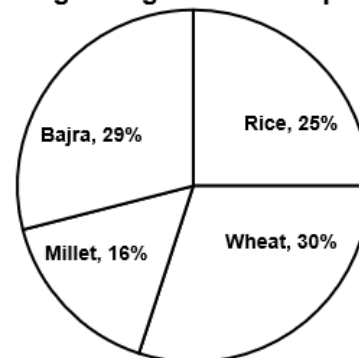(C) Gandhinagar   (D) Rajkot

34. "Chabahar Port" is located in which of the following country?
(A) Afghanistan   (B) Djibouti
(C) Oman   (D) Iran

35. Who has given the post of Home Minister in his cabinet, the new Prime Minister of Britain, Boris Johnson?
(A) Sajid Javid   (B) Preeti Patel
(C) Rahul Sachdeva   (D) Navtej Sarna

36. Which state has inducted India's first all-woman Special Weapons and Tactics (SWAT) team for anti-terrorist operations?
(A) Gujarat   (B) Delhi
(C) Maharashtra   (D) Himachal Pradesh

37. "Satyamev Jayate" is mentioned in which Indian scripture/ Upnishad?
(A) Rig Veda   (B) Arthashastra
(C) Mundaka Upanishad (D) Mahabharat

38. Which of the following is the only Indus Valley site where the remains of a "Horse" have been found?
(A) Dholavira   (B) Lothal
(C) Surkotada   (D) Kalibanga

39. Aspirin, which is commonly used as a pain reliever for minor aches and pains is basically _____.
(A) Methoxy benzoic Acid (B) Methyl Salicilate
(C) Acetyl Salicylic Acid (D) Phenyl Salicilate

40. "Salt Satyagraha" took place in which of the following year?
(A) 1932   (B) 1927
(C) 1929   (D) 1930

41. In which year MSF (Marginal Standing Facility) was introduced?
(A) 2012   (B) 2013
(C) 2011   (D) 2009

42. Onion is a modified form of _____.
(A) Leaf   (B) Stem
(C) Root   (D) Flower

43. "Nongkrem Dance Festival" is celebrated in which state of India?
(A) Nagaland   (B) Manipur
(C) Tripura   (D) Meghalaya

44. "Srisailam Dam" is located in which state of India?
(A) Kerala   (B) Tamil Nadu
(C) Telangana   (D) Andhra Pradesh

45. "Grand Canyon", one of the largest canyons/ gorge in world is situated on which river?
(A) Danube   (B) Eri
(C) Colorado   (D) Michigan

Computer

46. Which of the following is the collection of related records?
(A) Data   (B) File
(C) Multiple record (D) Table

47. A typical university or corporate LAN that includes one or more servers and clients is called a_____
(A) Master slave network (B) Peer-to-peer
(C) Client server network (D) LAN

48. Which of these is not a means of personal communication in Internet?
(A) Chat   (B) Hangout
(C) Instant messaging (D) Instanotes

49. A detailed written description of the programming cycle and the program, along with the test results and a printout of the program is called_____
(A) Reporting   (B) Documentation
(C) Output   (D) Special sheet

50. To navigate to a new web page for which you know the URL, type that URL in the browser's _____ and press Enter
(A) Name button   (B) Home
(C) Address bar   (D) Domain bar

51. Computers use the _____ number system to store data and perform calculations
(A) Binary   (B) Hexadecimal
(C) Octal   (D) Decimal

52. A directory within a directory is called _____
(A) Small directory (B) Sub directory
(C) Grand directory (D) Junior directory

53. _____ are specially designed computer chips that reside inside other devices, such as yourcar or your electronic thermostat
(A) Server   (B) Embedded system
(C) Client system   (D) Robotic application

54. A(n) _____ allows you to access your e-mail from anywhere
(A) forum   (B) weblog
(C) webmail interface (D) message board

55. Which of the following document means the file is transferred from another computer to your computer?
(A) Uploading
(B) Downloading
(C) Accessing
(D) Really Simple Syndication

Quantitative Aptitude

Directions (56-57): Answer the questions based on the information given below.

The given pie chart shows the percentage distribution of the number of farmers growing different crops. Total number of farmers is 800, and each farmer is growing only one crop.

**Percentage distribution of number of farmers growing different crops**

56. Find the ratio of number of farmers growing Rice to the number of farmers growing Wheat.
(A) 2:3   (B) 3:4
(C) 4:5   (D) 5:6

57. What is the average number of farmers growing Millet and Bajra taken together?
(A) 150　　　　　　　　(B) 180
(C) 210　　　　　　　　(D) 240

58. A number becomes 48 times of its reciprocal if 2 is added to the number. Find the positive number.
(A) 12　　　　　　　　(B) 8
(C) 6　　　　　　　　(D) 4

59. Vishal goes from Shastri Nagar to Inderlok at a speed of 45 km/hr in 5 minutes. If he returns from Inderlok to Shastri Nagar at the speed of 15 km/hr, then find his average speed.
(A) 25 km/hr　　　　　(B) 22.5 km/hr
(C) 20 km/hr　　　　　(D) 24 km/hr

60. Which of the given equations has the sum of its roots as -6?
(A) $x^2 - 6x - 8$　　　　(B) $3x^2 - 6x + 6$
(C) $x^2 + 6x + 8$　　　　(D) $2x^2 + 6x - 6$

61. Find the value of tan (-9π/3)
(A) -1　　　　　　　　(B) $\sqrt{3}$
(C) $-\sqrt{3}$　　　　　　(D) 0

62. If $2^{3x} = 8$ and $3^{y+3} = 81$, then find the value of $(x + y)^2 - (x - y)^2$.
(A) 2　　　　　　　　(B) 3
(C) 6　　　　　　　　(D) None of these

63. Find the value of tan175°+ tan165° + ………. + tan35°+ tan25°+ tan15° + tan5°
(A) 0　　　　　　　　(B) 1
(C) $\sqrt{3}$　　　　　　(D) None of these

64. A mixture of milk and water is mixed in the ratio of 4:3, respectively. If 4 litres of water is added to the mixture, then the ratio of milk to water becomes 6:5, respectively. Find the initial quantity of milk in the mixture.
(A) 40 litres　　　　　(B) 48 litres
(C) 44 litres　　　　　(D) 36 litres

65. A man sold an article for Rs. 720 at the profit of 20%. If the article is marked 33.33% up by its cost price, then find the marked price of the article.
(A) Rs. 780　　　　　(B) Rs. 900
(C) Rs. 800　　　　　(D) Rs. 720

66. If $(\sqrt{x} + 1/\sqrt{x}) = 2$, then find the value of $(x + 1/x)$.
(A) 2　　　　　　　　(B) 0
(C) 6　　　　　　　　(D) 4

67. A and B alone can complete a work in 18 days and 24 days, respectively. If they work alternate days with A starting first, then in how many days will the work be completed?
(A) 20.5 days　　　　(B) 18.5 days
(C) 22.75 days　　　　(D) 24 days

68. Average run scored by a batsman in his first 20 innings was 46. In next two innings, he had scored runs in the ratio 10:7, respectively. After 22nd inning, his average run per inning in 22 innings was increased by 2. Find the run scored by him in 21st inning.
(A) 96　　　　　　　　(B) 88
(C) 64　　　　　　　　(D) 80

69. Anil has Rs. 8000 with him initially. He spent 24% in shopping and 35% of the remaining in club. If he also gave Rs. 2000 to Mohit, then find the amount left with him.
(A) Rs. 2024　　　　　(B) Rs. 1952
(C) Rs. 1836　　　　　(D) Rs. 1922

70. Find the value of $(x^2 + y^2)$, if $(x + y)^2/(x^2 - y^2) = -x/y$.
(A) 0　　　　　　　　(B) 1
(C) -1　　　　　　　　(D) None of these

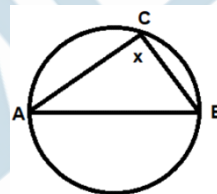**71.** In the given figure, O is the centre of the circle with radius 8 cm. Find the length of BC.
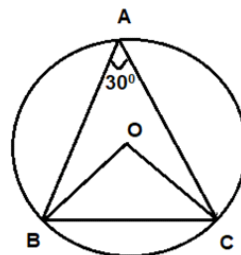
(A) 12 cm　　　　　　(B) 9 cm
(C) 8 cm　　　　　　(D) None of these

72. If $x^2 + x + 1 = 0$, then find the value of $x^{12} + x^6 + 1$.
(A) 0　　　　　　　　(B) -1
(C) 1　　　　　　　　(D) 3

73. If sec A – tan A = 12, then find the value of sec A + tan A + cos 60° + tan 45°.
(A) 19/12　　　　　　(B) 7/12
(C) 13/6　　　　　　(D) 11/4

74. In the given figure, AB is the diameter. Find the value of 'x'.

(A) 45°　　　　　　　(B) 60°
(C) 75°　　　　　　　(D) 90°

75. If a + 1/b = 1 and b + 1/c = 1 then find the value of c + 1/a if it is known that a, b and c can't be zero or infinity.
(A) -1　　　　　　　　(B) 1/2
(C) 1　　　　　　　　(D) 2

English Language

Direction (76-80): In the following passage, some of the words have been left out and replaced by a blank represented by an alphabet. First read the passage and try to understand what it is about. Then fill in the blanks as per the questions given.

For a few moments the terrified occupants of Avonlea school did not know whether it was an earthquake or a volcanic explosion that had occurred. The innocent looking parcel which Anne had ____(76)_____ supposed to contain Mrs. Hiram's nut cakes really held a/ an _____(77)_____ of firecrackers and pinwheels for which Warren Sloane had sent to town by St. Clair Donnell's father the day before, _____(78)_____ to have a birthday celebration that evening. The crackers went off in a thunderclap of noise and the pinwheels bursting out of the door spun madly around the room, hissing and spluttering. Anne dropped into her chair white with _____(79)_____ and all the girls climbed shrieking upon their desks. Joe Sloane stood as one transfixed in the midst of the _____(80)_____ and St. Clair, helpless with laughter, rocked to and fro in the aisle. Prillie Rogerson fainted and Annetta Bell went into hysterics.

76. (A) recklessly　　　　(B) brashly
(C) cautious　　　　(D) audaciously

77. **(A)** myriads **(B)** assortment
   (C) cacophony **(D)** diverse

78. **(A)** intending **(B)** yearning
   (C) contemplating **(D)** embarking

79. **(A)** dismay **(B)** alarmed
   (C) solace **(D)** alleviation

80. **(A)** chaotic **(B)** premonition
   (C) jubilation **(D)** commotion

Direction (81-85): In the following question, a sentence is given with a phrase or idiom in brackets. Select the option given below that can replace the bracketed phrase and mark that as your answer.

81. None of the Murrays were disposed to attend church in the afternoon, except Rosalie: she was **(bent down)** going as usual.
   (A) bent upon **(B)** bend on
   (C) bent out **(D)** No Improvement

82. Mrs. Fairfax **(turned down)** to be what she appeared, a placid-tempered, kind-natured woman, of competent education and average intelligence.
   (A) turned up **(B)** turned out
   (C) turned around **(D)** No Improvement

83. I **(parted from)** her finally at the door of the Brocklehurst Arms there: each went her separate way.
   (A) parted with **(B)** parted out
   (C) departed of **(D)** No Improvement

84. She **(set up)** for the bus station to meet the conveyance which was to take her back to Gateshead.
   (A) set down **(B)** set about
   (C) set off **(D)** No Improvement

85. Her husband had been **(cheated from of)** ten dollars by an employer for whom he had once worked in Boston and neither angels nor principalities could have convinced Mrs. Rachel that the whole United States was not responsible for it.
   (A) cheated out of **(B)** cheated down of
   (C) cheated out off **(D)** No Improvement

Direction (86-90): In the question given below, rearrange the sentences in the correct order, and choose the correct option.

86. **P.** She sent them to their seats with a sharper tone than she had ever used before.
   Q. Anne went to school in no angelic mood.
   R. Her cheek was swollen and her face ached.
   S. The schoolroom was cold and smoky, for the fire refused to burn and the children were huddled about it in shivering groups.
   (A) PQRS **(B)** SQRP
   (C) RSPQ **(D)** QRSP

87. **P.** The stock market crash of October 1929 shocked the United States, but at first it seemed like the country might recover.
   Q. That was anything but true.
   R. Business felt the effects of the spiral, but its most devastating effects were felt in family homes.
   S. A combination of deflation, Midwestern drought and public doubt about the economy sent the country into a financial freefall.
   (A) SRQP **(B)** PQSR
   (C) SPRQ **(D)** PRSQ

88. **P.** But the situation was dire for people who could no longer afford shelter or food due to unemployment.
   Q. During the Depression, finding a new job wasn't as easy as sending out a resume.
   R. With so many men unemployed, and unwilling to perform tasks traditionally coded as feminine, competition for the few jobs that existed was fierce.
   S. People tried to come up with creative ways to make ends meet.
   (A) RQPS **(B)** RSQP
   (C) QRSP **(D)** QPRS

89. **P.** However, research shows a mass extinction event among other animals is now underway.
   Q. Technology may aid human survival.
   R. With dinosaurs now long gone, humans are in the top spot among larger-sized animals.
   S. Dinosaur history indicates how vulnerable this position can be.
   (A) RSQP **(B)** QPRS
   (C) RPSQ **(D)** SRPQ

90. **P.** A century ago, Centralia, Pennsylvania was a busy small town filled with shops, residents and a brisk mining business.
   Q. Today couldn't be more different.
   R. Coal from local mines fuelled its homes and its economy, and its 1,200 residents worked, played and lived as tight-knit neighbours.
   S. Centralia's streets are abandoned and most of its buildings are gone.
   (A) PQRS **(B)** PRQS
   (C) RSQP **(D)** RPQS

Direction (91-95): In the following question, a sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice

91. The mission needs to be rethought by the carmakers.
   (A) The carmakers need to rethink the mission.
   (B) The carmakers needed to rethink the mission.
   (C) The mission needs to rethink the carmakers.
   (D) The carmakers need to rethought the mission.

92. The violent events would stir anger against enforcement of Prohibition.
   (A) Anger will be stirred against enforcement of Prohibition by the violent events.
   (B) Anger would be stirred against enforcement of Prohibition by the violent events.
   (C) Enforcement of Prohibition would stir anger against the violent events.
   (D) The violent events would stir against enforcement of Prohibition, anger.

93. Joseph Sicker gave boxes of apples to unemployed men in New York.
   (A) Boxes of apples were given by Joseph Sicker to unemployed men in New York.
   (B) Boxes of apples are given by Joseph Sicker to unemployed men in New York.
   (C) To unemployed men in New York, Joseph Sicker gave boxes of apples.
   (D) Boxes of apples have been given by Joseph Sicker to unemployed men in New York.

94. How could they keep the product relevant?
   (A) Could the product be kept relevant by them?
   (B) How would the product be kept relevant by them?
   (C) How could the product be kept relevant by them?
   (D) How could the product being kept relevant by them?

95. Bystanders donate clothing to the orphans.
(A) Clothing was being donated to the orphans by bystanders.
(B) Clothing is being donated to the orphans by bystanders.
(C) Clothing has been donated to the orphans by bystanders.
(D) Clothing is donated to the orphans by bystanders.

Directions (96-100): Read the following passage carefully and answer the questions.

Recently, Amazon announced it had bought PillPack, an online pharmacy for about $1 billion, a source briefed on the deal told The New York Times. The news caused waves in the $560 billion prescription drug industry; shares of publicly-owned drug companies like Walgreens, Rite-Aid, and CVS dropped by 9.4 percent, 13 percent, and 9.2 percent, respectively. Unlike its competitors, it has no brick-and-mortar stores — the company only delivers medications in the mail. Instead of packaging user medications by the prescription (with a month's worth of one drug in one bottle and another drug in another bottle, for example), PillPack packages medications by the dose. This service could be tremendously useful for people who take multiple medications. Amazon's takeover could help PillPack scale up (it currently boasts just 1,000 employees). PillPack, meanwhile, is already licensed to deliver medications to all 50 U.S. states, helping Amazon clear the regulatory hurdles that might have complicated its foray into the prescription drug industry.

96. According to the passage, shares of which of the publicly-owned drug companies DID NOT drop after Amazon bought Pill pack?
(A) Walgreens　　　　**(B)** CVS
(C) Rite-Aid　　　　**(D)** Novartis

97. According to the passage, Amazon bought Pill Pack for about _____.
(A) $2 billion dollars　　**(B)** $1 billion dollars
(C) $5 billion dollars　　**(D)** $1.8 billion dollars

98. According to the passage, Pillpack's packaging by dose could be helpful for people who _____
(A) take fewer doses
(B) have to take only one medication
(C) take multiple medications
(D) have to take medication only for a short period of time

99. According to the passage, how is Pill pack different from its competitors?
(A) It packages medicines by dose, rather than by prescription.
(B) It has no brick and mortar store, and only delivers medicines in mail.
(C) It only has a brick and mortar store, and does not deliver medicines in mail.
(D) It is licensed to deliver medicines to all 50 U.S. States.

100. According to the passage, the prescription drug industry is worth _____.
(A) $560 billion　　　**(B)** $580 billion
(C) $660 billion　　　**(D)** $600 billion

Space for rough work

Reasoning Aptitude

Ans.1(C) As Renminbi is the official currency of China, similarly Dirham is the official currency of United Arab Emirates.
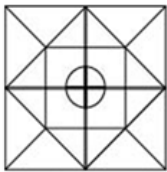
Ans.2(C) The given series can be analyzed as follows-
1 (A) + 2 = 3 (C), 3 (C) + 2 = 5 (E);
6 (F) + 2 = 8 (H), 8 (H) + 2 = 10 (J);
11 (K) + 2 = 13 (M), 13 (M) + 2 = 15 (O);
16 (P) + 2 = 18 (R); 18 (R) + 2 = 20 (T)

Ans.3(B) Problems in the digestive system including the stomach are dealt with by a gastrologist. Similarly, the nephrologist deals with the diagnosis and management of kidney disease.

Ans.4(B)

Ans.5(B)

Ans.6(A) The given series can be analyzed as follows-
Umbrell<u>a</u>, Principl<u>e</u>, Trai<u>n</u>, Friendshi<u>p</u>, Hastil<u>y</u> (As per order in the dictionary)

Ans.7(A) Iqlaas' paternal grandmother has only one daughter-in-law. Thus, Iqlaas' mother is the only daughter-in-law of his grandmother and her brother is Iqlaas' maternal uncle, whose wife's mother-in-law is the maternal grandmother of Iqlaas.

Ans.8(C) The correct use of operators would be ×, =, and × respectively.
$6 × 9 = 54 = 2 × 27$.

Ans.9(B) The words in order of dictionary are 'Beaucoup', 'Beaugregory', 'Beaujolais', 'Beaumontia'.
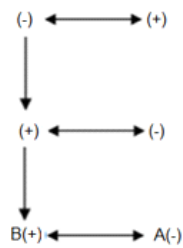
Ans.10(C)
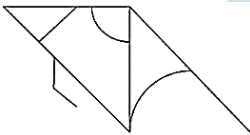
Ans.11(A)

So, only conclusion I follow.

Ans.12(A) 9 + 15 = 24
24 + 20 = 44
44 + 25 = 69
69 + 30 = 99
99 + 35 = 134

Ans.13(D) The pattern followed here is,
The number in [Row 1, Column 3]
= Quotient of 60/12 = 5
The number in [Row 2, Column 3]
= Quotient of 93/31 = 3
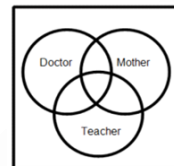The number in [Row 3, Column 3]
= Quotient of 50/25 = 2

Ans.14(C) The family tree would be-

Ans.15(C) The pattern followed here is,
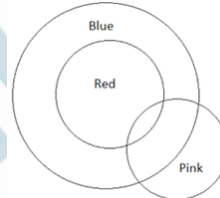6 + 12 = 18
18 + 24 = 42
42 + 36 = 78
78 + 48 = 126

Ans.16(C) The correct use of operators would be ×, ÷ and = respectively.
$6 × 8 ÷ 4 = 12$.

Ans.17(D)

Ans.18(B) The code for 'DINNER' would be '%&**#?'.

Ans.19(A)

So, only conclusion I follow.

Ans.20(B) As the sum of the numbers representing H, I and N is 31. Similarly, the sum of numbers representing P, E and S is 40.

Ans.21(A)
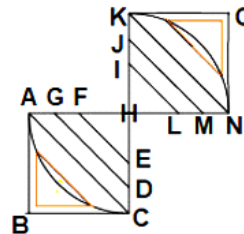
Besides two highlighted triangles, there are eight triangles in the given figure- HFE, HGD, HAC, ABC, OKN, HIL, HJM, HKN.
Thus, there are ten triangles in the given figure.

Ans.22(A) Fibroblast comes in fourth place in the dictionary.

Ans.23(C) In DEPARTMENT, D represents 7, E represents 3, P represents 1, A represents 2, R represents 4, T represents 5, M represents 8,N represents 6,T represents 5. So, 'PATTERNED' would be coded as '125534637'.

Ans.24(D) Here, the gap between consecutive letters is two. So, the next letter would be B.

Ans.25(D) From matrices 1 and 2,
R can be coded as 41, 12, 78;
A can be coded as 03, 23, 77;
N can be coded as 30, 65;
G can be coded as 20, 75; and
E can be coded as 44, 99.

General Studies

Ans.26(B) Venus is sometimes called Earth's twin because Venus and Earth are almost the same size, have about the same mass (they weigh about the

same), and have a very similar composition (are made of the same material). They are also neighboring planets.

Ans.27(B) Biochemical Oxygen Demand (BOD, also called Biological Oxygen Demand) is the amount of dissolved oxygen needed (i.e. demanded) by aerobic biological organisms to break down organic material present in a given water sample. A low BOD is an indicator of good quality water, while a high BOD indicates polluted water.

Ans.28(B) Bangladesh and India share a 4,096-kilometers long international border, the fifth-longest land border in the world. West Bengal with 2,217 km shares longest border with Bangladesh. Other states include 262 km in Assam, 856 km in Tripura, 180 km in Mizoram, 443 km in Meghalaya.

Ans.29(C) Fundamental Duties (Part IVA, Article 51A) were added by 42nd constitutional amendment act. As of now there are 11 Fundamental duties. Citizens are morally obligated by the Constitution to perform these duties.

Ans.30(C) The escape velocity is the minimum velocity required to leave a planet or moon. On the surface of the Earth, the escape velocity is about 11.2 km/s.

Ans.31(C) Sarkaria Commission was set up in 1983 by the central government of India. The Sarkaria Commission's mandate was to examine the central-state relationship and suggest changes within the framework of Constitution of India. The Commission was so named as it was headed by Justice Ranjit Singh Sarkaria (Chairman of the commission).

Ans.32(D) Madhav National Park is situated in Shivpuri district of Madhya Pradesh, India.

Ans.33(C) The Central Government has notified that the IFSCA is a unified body to regulate all financial services in International Financial Services Centres (IFSCs) with its headquarters in Gandhinagar, Gujarat.

Ans.34(D) Chabahar port project located in Tehran, Iran.

Ans.35(B) Priti Patel became the first Home Minister of Indian origin in Britain. Preeti Patel led a 'Vote Leave Campaign', leading the June 2016 referendum in favor of Britain's exit from the European Union (EU). She considers former British Prime Minister Margaret Thatcher as her ideal leader.

Ans.36(B) India's first all-woman Special Weapons and Tactics (SWAT) team for anti-terrorist operations inducted in Delhi Police. The team consists of 36 women commandos from the northeastern states.

Ans.37(C) "Satyameva Jayate" ("Truth alone triumphs") is a mantra from the ancient Indian scripture Mundaka Upanishad. After independence of India, it was adopted as the national motto of India in 26 January 1950.

Ans.38(C) Surkotada (Gujarat) site contains horse remains dated to ca. 2000 BCE, which is considered a significant observation with respect to Indus Valley Civilization.

Ans.39(C) Aspirin, or acetylsalicylic acid (ASA), is commonly used as a pain reliever for minor aches and pains and to reduce fever.

Ans.40(D) On 12 March 1930, Gandhiji and his followers began their 24-day march to Dandi (Coastal town in Gujarat). This was the campaign against the British salt monopoly.

Ans.41(C) Marginal standing facility (MSF) is a window for banks to borrow from the Reserve Bank of India in an emergency situation when inter-bank liquidity dries up completely. MSF came into effect from 9th May 2011.

Ans.42(B) The onion plant has a fan of hollow, bluish-green leaves and its bulb at the base of the plant begins to swell when a certain day-length is reached. The bulbs are composed of shortened, compressed, underground stems.

Ans.43(D) Recently, Nongkrem dance festival, was celebrated by the people of the Khasi Hills, in Meghalaya. This festival is celebrated annually. People pray for good harvest, peace, and prosperity of the community. A unique dance named "Ka Shad Mastieh" is performed by the male members of Hima Khyrim, a sub-tribe of the indigenous Khasi tribe.

Ans.44(D) The Srisailam Dam is constructed across the Krishna River in Kurnool district, Andhra Pradesh near and is the 2nd largest capacity working hydroelectric station in the country.

Ans.45(C) The Grand Canyon is a steep-sided canyon carved by the Colorado River in Arizona, United States.

Computer

Ans.46(D) Table is the collection of related record.

Ans.47(C) A typical university or corporate LAN that includes one or more servers and clients is called a Client server network.

Ans.48(D) Instanote is not a means of personal communication in Internet.

Ans.49(B) A detailed written description of the programming cycle and the program, along with the testresults and a printout of the program is called Documentation.

Ans.50(C) To navigate to a new web page for which you know the URL, type that URL in the browser's Address barand press Enter

Ans.51(A) Computers use the Binary number system to store data and perform calculations

Ans.52(B) A directory within a directory is called Sub directory.

Ans.53(B) Embedded system are specially designed computer chips that reside inside other devices, such as yourcar or your electronic thermostat

Ans.54(C) A(n) webmail interface allows you to access your e-mail from anywhere

Ans.55(D) Really Simple Syndication means the file is transferred from another computer to your computer

Quantitative Aptitude

Ans.(56-57):

Crop	Number of Farmers
Rice	0.25 × 800 = 200
Wheat	0.30 × 800 = 240
Millet	0.16 × 800 = 128
Bajra	0.29 × 800 = 232

Ans.56(D) Therefore, required ratio = 200: 240 = 5: 6

Ans.57(B) Therefore, required average = (128 + 232)/2 = 360/2 = 180

Ans.58(C) Let the number be 'x'.
Then, $x + 2 = 48/x$
$x^2 + 2x - 48 = 0$
$x^2 + 8x - 6x - 48 = 0$
$x(x + 8) - 6(x + 8) = 0$
$(x - 6)(x + 8) = 0$
$x = 6, -8$
Therefore, the positive number is 6.
Hence, option c.

Ans.59(B) Distance between Shastri Nagar and Inderlok

= 45 × (5/60) = 3.75 km

Total distance covered by Vishal = 2 × 45 × (5/60) = 7.5 km

Total time taken by Vishal = (5/60) + (3.75/15) = 1/3 hours

Required average = 7.5/(1/3) = 22.5 km/hr

Hence, option b.

Ans.60(C) Comparing the equation with $ax^2 + bx + c = 0$

Sum of roots = -b/a

So, option (c) satisfies the desired answer.

Ans.61(D)

Ans.62(D) $2^{3x} = 8$

$2^{3x} = 2^3$

$3x = 3$

So, x = 1

Now, $3^{y+3} = 81$

y + 3 = 4

So, y = 1

Now, $(x + y)^2 – (x – y)^2 = 4$

Ans.63(A) tan 175° + tan165° + ………. + tan35° + tan25° + tan15° + tan5°

-tan5° - tan15° –tan25° ………. + tan35° + tan25° + tan15° + tan5° = 0

Ans.64(B) Let the initial quantity of milk and water be 4x litres and 3x litres respectively.

According to question,

4x/ (3x + 4) = 6/5

20x = 18x + 24

2x = 24, x = 12

So, the initial quantity of milk in the mixture = 4x = 48 litres

Ans.65(C) Cost price of the article = 720/1.2 = Rs. 600

Marked price of the article = (4/3) × 600 = Rs. 800

Ans.66(A) $(\sqrt{x} + 1/\sqrt{x}) = 2$

Squaring both sides, we get

$x + 1/x + 2 × \sqrt{x} × 1/\sqrt{x} = 4$

$x + 1/x = 2$

Ans.67(A) Total work = LCM of 18 and 24 = 72 units

Unit per day of A = 72/18 = 4 units

Unit per day of B = 72/24 = 3 units

Units of work done in 2 days = 4 + 3 = 7 units

So, 70 units of work will be completed in 20 days.

Remaining 2 units of work is done by A in 2/4 = 0.5 days

Required number of days = 20.5 days

Ans.68(D) Total run in 20 innings = 20 × 46 = 920

Let, run scored in 21st and 22nd inning be 10x and 7x respectively.

So, 920 + 10x + 7x = 48 × 22

17x = 136, x = 8

Run scored by him in 21st inning = 10x = 80

Ans.69(B) Amount spent on shopping = 24% of 8000 = Rs. 1920

Amount spent in club = 35% of (8000 – 1920) = Rs. 2128

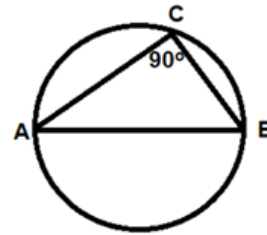Amount left with him = 8000 – (1920 + 2128 + 2000) = Rs. 1952

Ans.70(A) $(x + y)^2/(x^2 – y^2) = -x/y$

$(x + y)/(x – y) = -x/y$

$xy + y^2 = -x^2 + xy$

$x^2 + y^2 = 0$

Ans.71(C) Angle BOC = 2 × angle BAC

Angle BOC = 2 × 30° = 60°

Since, OB = OC = 8 cm (radius)

Each angle of triangle BOC is 60°

So, triangle BOC is equilateral triangle.

Therefore, BC = 8 cm

Ans.72(D) $x^2 + x + 1 = 0$

$(x – 1)(x^2 + x + 1) = 0$

$x^3 – 1 = 0$

$x^3 = 1$

$x^{12} + x^6 + 1 = (x^3)^4 + (x^3)^2 + 1 = 1 + 1 + 1 = 3$

Ans.73(A) $sec^2A – tan^2A = 1$

(sec A + tan A)(sec A – tan A) = 1

(secA + tanA) × 12 = 1

(secA + tanA) = 1/12

So, sec A + tan A + cos 60° + tan 45° = 1/12 + 1/2 + 1 = (1 + 6 + 12)/12 = 19/12

Ans.74(D)

Since AB is the diameter of the circle.

So, x = 90°

Ans.75(C) Let a = −1

So −1 + (1/b) = 1

1/b = 2

So b = 1/2

Also b + (1/c) = 1

1/2 + 1/c = 1

1/c = 1/2

c = 2

So c + 1/a = 2 + 1/(−1) = 2 − 1 = 1

English Language

Ans.76(A) We need an adverb here to modify the verb (supposed). The context implies that we need a synonym of careless or rash, as the passage gives us the consequence of this carelessness. Recklessly - carelessly. Brashly – self-assertive in a rude or noisy way. Cautious - careful. Audaciously - in a bold or daring manner. C is incorrect as it is an adjective.

Ans.77(B) We need a noun here, in singular form, as denoted by the use of the article 'a/an'. Myriad/ assortment - a large variety. Cacophony - a harsh mixture of different sounds. Diverse - very different. A is incorrect as it is in plural form. C does not lend any meaning to the context. D is incorrect as it is an adjective.

Ans.78(A) We need a present participle of a verb here. Yearning - wanting. Contemplate - think deeply. Embark - to depart on a journey. B is incorrect as 'yearning' does not take the preposition 'to' after it. Among the remaining words, A holds greatest meaning in the context of the passage.

Ans.79(A) We need a noun here which carries a negative meaning, as the context talks about a frightening incident.

Dismay - concern or distress. Alarmed - scared. Solace - comfort. Alleviation - ease or relief from pain or suffering. B is incorrect as it is an adjective. C and D carry positive meanings.

Ans.80(D) We need a noun here as denoted by the use of the article 'the'. Articles are used only before nouns.

Chaotic - disorderly. Premonition - a strong feeling that something is about to happen, especially something unpleasant. Jubilation - excitement and joy. Commotion - disorder. A is incorrect as it is an adjective. C carries a positive meaning which does not suit the context as the passage describes an alarming incident. B does not lend meaning to the context.

Ans.81(A) Replace BENT DOWN with BENT UPON. We need a phrase that means determined as conveyed by the sentence.

Bent upon - determined. Bent down - incline the body downwards. Bent out (of shape) - to become distorted. B will be incorrect as we need the past participle here as it is acting as an adjective modifying the proper noun 'Rosalie'. 'Bend' is the first form of the verb.

Ans.82(B) Replace TURNED DOWN with TURNED OUT. We need a phrase that means to be known or discovered to be.
Turn up - appear or arrive somewhere. Turn out - to be known to be. Turn down - reject. Turn around - to spin around in a circular motion.

Ans.83(D) The phrase fits grammatically and contextually in the sentence. We need a phrase that means to be separated from someone.
Part with - to be separated from a possession (money, valuables, etc.). Part from - to be separated from a close friend or family member. 'Part out' is grammatically incorrect. 'Departed' will take the preposition 'from' after it instead of 'of'.

Ans.84(C) Replace SET UP with SET OFF. We need a phrase here that means left or departed.
Set down - to put something down from one's hands onto a surface such as a table or shelf. Set about - to start doing something. Set up - to arrange or organize something. Set off - to leave for somewhere.

Ans.85(A) Replace CHEATED FROM OF with CHEATED OUT OF. 'Cheated out of' means to be deceived and deprived of money or valuables. The other phrases are grammatically incorrect.

Ans.86(D) The correct order is QRSP. Clearly, the passage must begin with Q, as it introduces the character who is discussed in the rest of the passage. Q tells us that Anne was not in a pleasant mood. R follows by giving the reason for this - she was in pain. S continues by telling us about the schoolroom and the schoolchildren. P concludes the passage by telling us how she (Anne) was stricter with them (schoolchildren mentioned in S).

Ans.87(B) The correct order is PQSR. P begins the passage by introducing the event that is to be discussed in the passage – the stock market crash of 1929. Q follows by referring to the idea mentioned in P that it was possible for US to recover, and tells us that it was untrue. S continues by telling us why it was untrue, and the factors that made it difficult for US to recover. R tells us the effects of the factors mentioned in S.

Ans.88(C) The correct order is QRSP. Q begins the passage by introducing the event which is discussed in the subsequent lines – the Depression. R tells us why it was difficult finding a new job during the Depression, as mentioned in Q. S follows by telling us how people tries to recover from this. P builds further on this and tells us that despite the attempts, the situation remained grave for many.

Ans.89(A) The correct order is RSQP. RS begin the passage as a pair: R tells us how humans occupy the top spot among animals now that dinosaurs are extinct, and S follows by commenting on the vulnerability of this top spot. Q follows by giving us a hope about how technology might help protect us from the vulnerability that this spot brings. P counters this by telling us that despite our having technology, research shows that a mass extinction event is soon to come.

Ans.90(B) Following chronological order of events, PR begin the passage as a pair: P introduces the town to be discussed and the timeline. R follows by referring to the town and building further on its description. QS follow as a pair: Q tells us that this is in stark contrast to today. S gives us the reason for this and tells us the present scenario.

Ans.91(A) The sentence is in indicative mood, passive voice and simple present tense (needs). Follow the rules below to convert a sentence in indicative mood to active voice:
1. The subject clause will become the object clause. Here, the subject (THE MISSION) will change to the object of the verb, and the object (THE CARMAKERS) will change into the subject and begin the sentence.
2. Replace NEEDS with NEED as the subject CARMAKERS is in plural form.
3. Replace BE RETHOUGHT with TO RETHINK as the passive voice construction TO + BE + VERB will not be used in a sentence with active voice.

Ans.92(B) The sentence is in indicative mood, active voice and future conditional tense (would). Follow the rules below to convert a sentence in indicative mood to passive voice:
1. The subject clause will become the object clause. Here, the subject (THE VIOLENT EVENTS) will change to the object of the verb, and the object (ANGER) will change into the subject and begin the sentence.
2. Replace WOULD STIR with WOULD BE STIRRED as the passive voice construction for future conditional tense is WOULD + BE + SUBJECT.
3. Add the conjunction BY before THE VIOLENT EVENTS to link the verb with its object.
C and D do not change the sentence to passive voice, rather they alter the placement of clauses in the sentence.

Ans.93(A) The sentence is in indicative mood, active voice and simple past tense (gave). Follow the rules below to convert a sentence in indicative mood to passive voice:
1. The subject clause will become the object clause. Here, the subject (JOSEPH SICKER) will change to the object of the verb, and the object (BOXES OF APPLES) will change into the subject and begin the sentence.
2. Replace GAVE with WERE GIVEN as the passive voice construction for simple past tense is WERE + GIVEN.
3. Add the conjunction BY before JOSEPH SICKER to link the verb with its object.
C does not change the sentence to passive voice, rather it alters the placement of clauses in the sentence.

Ans.94(C) The sentence is in interrogative mood and active voice. Follow the rules below to convert a sentence in interrogative mood to passive voice:
1. The subject clause will become the object clause. Here, the subject (THEY) will change to the object of the verb, and the object (THE PRODUCT) will change into the subject.
2. Replace THEY with THEM, as the subject is changing to object so the objective pronoun is to be used.
3. The modal verb COULD will remain unchanged. Replace KEEP with BE KEPT. The passive voice construction for a sentence in interrogative mood is "Interrogative pronoun (HOW) + subject (COULD THE PRODUCT) +

verb clause (BE KEPT RELEVANT) + object (BY THEM)".

4. Add the conjunction BY before THEM to link the verb with its object.

Ans.95(D) The sentence is in indicative mood and active voice. Follow the rules below to convert a sentence in indicative mood to passive voice:

1. The subject clause will become the object clause. Here, the subject (BYSTANDERS) will change to the object of the verb, and the object (CLOTHING) will change into the subject and begin the sentence.

2. Replace DONATE with IS DONATED as the passive voice construction for simple present tense is IS + VERB.

3. Add the conjunction BY before BYSTANDERS to link the verb with its object.
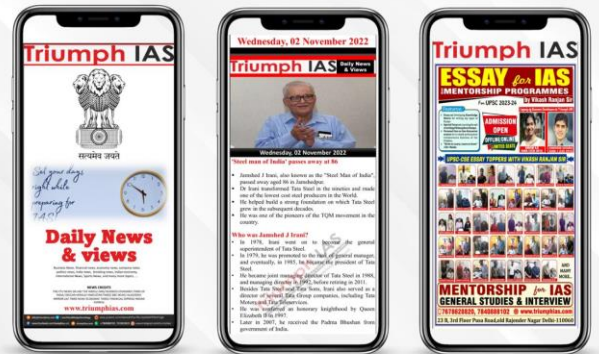
Ans.96(D)
Ans.97(B)
Ans.98(C)
Ans.99(B)
Ans.100(A)

TESMUS
...keeps you ahead

<table>
<tr><td>टेस्ट फॉर्म नंबर</td><td>अधिकतम अंक : 100
कुल प्रश्न : 100
निर्धारित समय : 90 मि.</td></tr>
</table>

उम्मीदवारों को निर्देश

प्रश्नों को हल करने से पहले निम्नलिखित निर्देशों को ध्यान से पढ़ें।

(1) इस पुस्तिका में **100 प्रश्न** हैं, जो कि कुल **5 भागों** में विभाजित हैं।

　　भाग -(I)　: Reasoning Aptitude　　　　　　　　**(25 प्रश्न)**

　　भाग -(II)　: General Studies　　　　　　　　　**(20 प्रश्न)**

　　भाग -(III) : Computer　　　　　　　　　　　　**(10 प्रश्न)**

　　भाग -(IV) : Quantitative Aptitude　　　　　　　**(20 प्रश्न)**

　　भाग -(IV) : English Language　　　　　　　　　**(25 प्रश्न)**

(2) सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं।

(3) प्रश्नों को हल करना प्रारम्भ करने से पहले आपको इस पुस्तिका की जांच करनी चाहिए और यह सुनिश्चित करना चाहिए कि इसमें सभी पृष्ठ उपस्थित हैं और कोई पृष्ठ कम या बदला हुआ नहीं है। अगर आपको इस पुस्तिका में कोई दोष मिलता है, तो आपको तुरंत इसे बदलना होगा।

(4) **प्रत्येक गलत उत्तर के लिए 0.50 अंकों की नकारात्मक अंकन होगी।**

(5) आपको निरीक्षक द्वारा उत्तर पुस्तिका अलग से दी जाएगी। आपको प्रश्नों को हल करना प्रारम्भ करने से पहले अपना नाम, रोल नंबर, टेस्ट नाम /आईडी और/परीक्षा का नाम उत्तर-पुस्तिका पर सावधानीपूर्वक पूरा करना होगा। आपको उत्तर-पुस्तिका में निर्धारित स्थान पर अपना हस्ताक्षर भी करना होगा। इन निर्देशों का पूरी तरह से पालन किया जाना चाहिए, जिसको न करने पर आपकी उत्तर-पुस्तिका का मूल्यांकन नहीं किया जाएगा और आपको 'शून्य 'अंक दिया जाएगा।

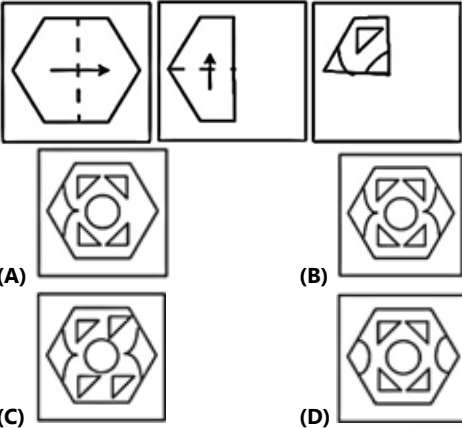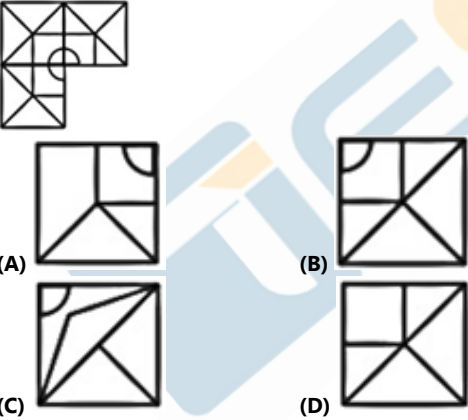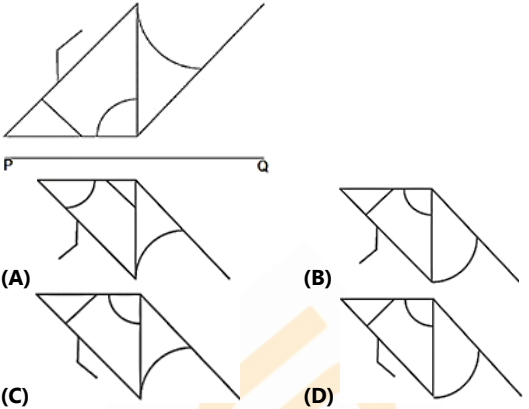**(6)** उत्तर केवल **पेंसिल या ब्लैकब्लू बॉल पेन/** द्वारा उत्तरपुस्तिका प्रासंगिक प्रश्न संख्या के सम्बंधित गोले को पूरी तरह से ब्लैक करके - दिखाया जाना चाहिए।

(7) OMR उत्तर पुस्तिका को एक मशीन द्वारा जांचा जायेगा। यदि किसी स्थिति में उपलब्ध जानकारी, आवेदन पत्र में दी गयी जानकारी से अलग पायी गयी, तो आवेदक का आवेदन निरस्त कर दिया जायेगा।

(8) निरीक्षक की अनुमति मिलने के बाद ही कोई परीक्षा कक्ष छोड़ सकता है।

(9) उपरोक्त में से किसी भी निर्देश का अनुपालन करने में विफल उम्मीदवार को उपयुक्त कार्यवाही/जुर्माना के लिए उत्तरदायी समझा जा सकता है।

(10) जितनी जल्दी हो सके उतनी जल्दी और सावधानी से प्रश्नों का उत्तर दें। कुछ सवाल कठिन हो सकते हैं और दूसरे आसान हो सकते हैं। किसी भी प्रश्न पर ज्यादा समय नहीं बिताएं।

(11) मोबाइल फोन और वायरलेस संचार उपकरण, परीक्षा कक्ष कमरे में पूरी तरह से प्रतिबंधित/हैं। कोई भी आवेदक अपने मोबाइल का या किसी वायरलेस संचार उपकरण को बंद करके भी अपने पास नहीं रख सकता। नियम का उल्लंघन करने पर आवेदक के विरूद्ध उचित कार्यवाही की जायेगी और उसका आवेदन भी निरस्त किया जा सकता है।

(12) उत्तर-पत्र पर कोई रफ काम नहीं किया जाना चाहिए।

(13) कोई भी उम्मीदवार परीक्षा पूरा होने से पहले परीक्षा कक्ष नहीं छोड़ सकता है।

<table>
<tr><td>परीक्षार्थी का नामः...
दिनाँकः.............. परीक्षा कोड ....
अनुक्रमांकः...</td><td></td></tr>
</table>

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें ।

Reasoning Aptitude

1. दिए गए विकल्पों में से संबंधित शब्द/अक्षर/संख्या का चुनाव करें|
रॉन्मिन्बी : चीन :: दिरहम: ?
(A) सऊदी अरब
(B) इराक
(C) यू.ए.ई.
(D) सीरिया

2. एक श्रृंखला दी गई है जिसमे एक पद लुप्त है| दिए गए विकल्प में से उस विकल्प का चुनाव करें जो दी गई श्रृंखला को पूर्ण करेगा|
PRT, KMO, FHJ, ?
(A) EGI
(B) BDF
(C) ACE
(D) CEG

3. निम्नलिखित प्रश्न में दिए गए विकल्पों में से सम्बंधित शब्द का चुनाव करें|
गैस्ट्रोलॉजिस्ट: पेट ::? : किडनी
(A) पल्मोनोलॉजिस्ट
(B) नेफ्रोलॉजिस्ट
(C) न्यूरोलॉजिस्ट
(D) फिजिशियन

4. प्रश्न चित्र में दिखाए गए अनुसार कागज़ का एक टुकड़ा मुड़ा हुआ है और फिर उसमें छेद किया गया है, कागज़ को खोलने के बाद वह कैसा दिखाई देगा|

(A)
(B)
(C)
(D)

5. कौन सा उत्तर आकृति प्रश्न आकृति में पैटर्न को पूरा करेगा?

(A)
(B)
(C)
(D)

6. एक श्रृंखला दी गई है जिसमे एक पद लुप्त है|दिए गए विकल्प में से उस विकल्प का चुनाव करें जो दी गई श्रृंखला को पूर्ण करेगा|
Umbrella, Principle, Train, Friendship, ?
(A) Hastily
(B) Hostile
(C) Rival
(D) Transience

7. फराह का परिचय देते हुए, इक्लास कहता है – "वह मेरी दादी, जिसकी कोई पुत्री नहीं है, की इकलौती बहु के भाई की पत्नी की सास है|"फराह इक्लास से कैसे सम्बंधित है?
(A) नानी
(B) दादी
(C) चाची
(D) मामी

8. नीचे दिए गए अभिव्यक्ति में विकल्पों में दिए गए ऑपरेटरों में से "#" (उसी क्रम में) को कैसे प्रतिस्थापित करना चाहिए?
6#9# 54#2 # 27
(A) +, +, =, =
(B) ×, =, =, +
(C) ×, =, =, ×
(D) -, +, =, ×

9. शब्दकोश के अनुसार तीसरा शब्द कौन सा है?
'Beaucoup', 'Beaujolais', 'Beaumontia', 'Beaugregory'
(A) Beaumontia
(B) Beaujolais
(C) Beaugregory
(D) Beaucoup

10. उत्तर आकृतियों में कौन सी आकृति प्रश्न आकृति का सही प्रतिबिम्ब होगी जब दर्पण PQ रेखा पर रखा हो?

(A)
(B)
(C)
(D)

11. निम्नलिखित प्रश्न में, प्रत्येक के दो निष्कर्ष I और II के बाद दो कथन दिए जाते हैं। आपको कथनों को सही होने पर विचार करना होगा, भले ही वे आम तौर पर ज्ञात तथ्यों से भिन्न हों| आपको यह तय करना होगा कि दिए गए निष्कर्षों में से कौन सा निष्कर्ष, यदि कोई है, तो दिए गए कथनों से मिलता है।
कथन : सभी सितारों, रोशनी है| सभी रोशनी, टॉर्च है|
निष्कर्ष: I. कुछ सितारों, टॉर्च है| **II.** कोई रोशनी, सितारों नहीं है|
(A) केवल निष्कर्ष I अनुसरण करता है
(B) केवल निष्कर्ष II अनुसरण करता है
(C) न तो निष्कर्ष I और न ही II अनुसरण करता है
(D) निष्कर्ष I और II दोनों अनुसरण करते हैं

12. निम्नलिखित श्रृंखला में प्रश्न चिन्ह (?) के स्थान पर क्या आएगा?
9, 24, 44, 69, 99,?
(A) 134
(B) 132
(C) 128
(D) 156

13. निम्न प्रश्न में, श्रृंखला से लुप्त संख्या का चयन करें।

60	12	5
93	31	3
50	25	?

(A) 5
(B) 8
(C) 4
(D) 2

14. B को इंगित करते हुए, A ने कहा, "वह मेरी सास के ससुर का इकलौता बच्चे का इकलौता बच्चा है।" यदि B पुरुष है A, B से कैसे संबंधित है?
(A) पिता
(B) पति
(C) पत्नी
(D) पुत्री

15. एक श्रृंखला दी गई है जिसमे एक पद लुप्त है| दिए गए विकल्पों में सही चुनें जो श्रृंखला को पूरा करेंगे।
6   18   42   78   ?
(A) 127
(B) 116
(C) 126
(D) 130

16. नीचे दिए गए अभिव्यक्ति में विकल्पों में दिए गए ऑपरेटरों में से "%" (उसी क्रम में) को कैसे प्रतिस्थापित करना चाहिए
6%8%4%12
(A) -, =, -
(B) ×, =, +
(C) ×, ÷, =
(D) -, ÷, =

17. दिए गए श्रेणी के बीच संबंधों का सबसे अच्छा प्रतिनिधित्व करने वाले आरेख की पहचान करें।

डॉक्टर, शिक्षक, माँ

(A)   **(B)**

(C)   **(D)**
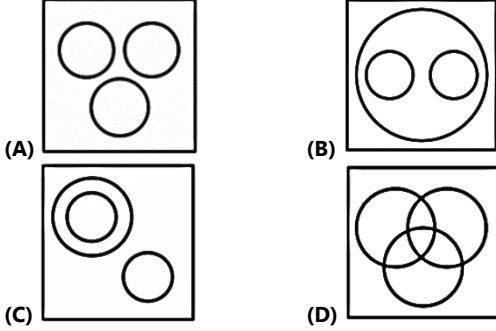
18. एक निश्चित कोड भाषा में, 'ADRENALINE' को '@%?#*@+&*#' के रूप में लिखा जाता है। इस कोड भाषा में 'DINNER' कैसे लिखा जाएगा ?

**(A)** #&**#?   **(B)** %&**#?
(C) @&++#&   **(D)** ?&**#?

19. निम्नलिखित प्रश्न में, प्रत्येक के दो निष्कर्ष I और II के बाद दो कथन दिए जाते हैं। आपको कथनों को सही होने पर विचार करना होगा, भले ही वे आम तौर पर ज्ञात तथ्यों से भिन्न हों। आपको यह तय करना होगा कि दिए गए निष्कर्षों में से कौन सा निष्कर्ष, यदि कोई है, तो दिए गए कथनों से मिलता है।

कथन: सभी लाल, नीला है| कुछ गुलाबी, लाल है|
निष्कर्ष: I. कुछ नीला, गुलाबी है| II. कोई भी गुलाबी, नीला नहीं है|

(A) निष्कर्ष I अनुसरण करता है
(B) निष्कर्ष II निम्नानुसार है
(C) न तो I और II अनुसरण करता है
(D) निष्कर्ष I और II दोनों अनुसरण करते हैं

20. दिए गए विकल्पों से संबंधित शब्द/अक्षर/संख्या का चयन करें।
HIN:31::PES: ?
(A) 48   **(B)** 40
(C) 36   **(D)** 44

21. निम्नलिखित आकृति में कितने त्रिकोण हैं?
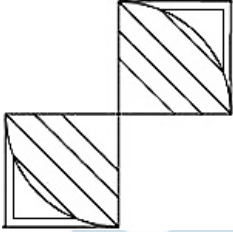
(A) 10   **(B)** 8
(C) 12   **(D)** 6

22. उस शब्द का चयन करें जो शब्दकोश के अनुसार चौथे स्थान पर आएगा?
(A) fibroblast   **(B)** fibrinolysin
(C) fibrillate   **(D)** fiascoes

23. यदि किसी निश्चित भाषा में, DEPARTMENT को "7312458365" के रूप में कोडित किया गया है। उस कोड में 'PATTERNED' कोड कैसे कोड़ित करेंगे?
(A) 122536347   **(B)** 125511438
(C) 125534637   **(D)** 125531347

24. एक श्रृंखला दी गई है जिसमे एक पद लुप्त है, उस विकल्प का चुनाव करें जो श्रृंखला को पूरा करेगी|
Q N K H E ?
(A) D   **(B)** C
(C) A   **(D)** B

25. एक शब्द केवल एक संख्या समूह द्वारा दर्शाया गया है, जैसा की विकल्पों में से किसी एक में दिया गया है| विकल्प में दिए गए संख्या समूह अक्षरों के दो वर्गों द्वारा दर्शाए गए हैं, जैसा की निचे दिए गए दो स्तम्भ में हैं| मैट्रिक्स I के स्तम्भ और पंक्ति की संख्या 0 से 4 दी गयी है और मैट्रिक्स II की 5 से 9| इन स्तम्भ से एक अक्षर को पहले उसकी पंक्ति और बाद में स्तम्भ द्वारा दर्शाया

जा सकता है| उदाहरण के लिए L को 10 द्वारा दर्शा सकते हैं तथा T को 89 आदि द्वारा दर्शाया जा सकता है| इसी तरह से आपको प्रश्न में दिए शब्द 'RANGE' के लिए समूह को पहचानना है|

मैट्रिक्स I

	0	1	2	3	4
0	K	L	G	N	D
1	O	T	V	J	R
2	F	R	B	Y	H
3	A	W	A	U	M
4	C	P	I	S	E

मैट्रिक्स II

	5	6	7	8	9
5	B	N	G	L	D
6	I	P	U	S	J
7	F	W	A	P	Z
8	K	Z	R	V	O
9	C	M	H	T	E

(A) 78, 23, 56, 20, 99   **(B)** 14, 32, 03, 02, 44
(C) 41, 03, 30, 75, 98   **(D)** 12, 23, 30, 20, 44

General Studies

26. निम्नलिखित में से कौन सा ग्रह "पृथ्वी का जुड़वां" के नाम से भी जाना जाता है?
(A) मंगल   **(B)** शुक्र
(C) बृहस्पति   **(D)** बुध

27. BOD एक दिए गए पानी के नमूने में कार्बनिक पदार्थों को तोड़ने के लिए एरोबिक जैविक जीव द्वारा आवश्यक ऑक्सीजन तोड़ने की मात्रा है (यानी मांग की गई)। संक्षिप्त नाम BOD में "O" का क्या है?
(A) ऑक्सीकरण   **(B)** ऑक्सीजन
(C) ऑक्सीकृत   **(D)** ओजोन

28. निम्नलिखित में से कौन सा राज्य बांग्लादेश के साथ सीमा साझा नहीं करता है?
(A) असम   **(B)** अरुणाचल प्रदेश
(C) त्रिपुरा   **(D)** पश्चिम बंगाल

29. संविधान के किस भाग में 'मौलिक कर्तव्यों' का उल्लेख किया गया है?
(A) भाग III   **(B)** भाग IV
(C) भाग IVA   **(D)** भाग IIIA

30. अंतरिक्ष में लॉन्च होने के लिए रॉकेट की न्यूनतम पलायन वेग क्या है?
(A) 5.5 किमी/से   **(B)** 6.2 किमी/से
(C) 11.2 किमी/से   **(D)** 18 किमी/से

31. 'सरकारिया आयोग' भारत के किस मुद्दे से जुड़ा हुआ है?
(A) जनजातीय अधिकार मुद्दे   **(B)** पर्यावरण के मुद्दे
(C) केंद्र-राज्य के मुद्दे   **(D)** अल्पसंख्यक मुद्दे

32. "माधव राष्ट्रीय उद्यान" भारत के किस राज्य में स्थित है?
(A) राजस्थान   **(B)** उत्तर प्रदेश
(C) छत्तीसगढ़   **(D)** मध्य प्रदेश

33. उस स्थान को चुनें जहां अंतर्राष्ट्रीय वित्तीय सेवा केंद्र प्राधिकरण (IFSCA) का मुख्यालय स्थित है, जैसेकि यह अंतर्राष्ट्रीय प्रतिभूति संगठन (IOSCO) का एक सहयोगी सदस्य बन गया है?
(A) अहमदाबाद   **(B)** सूरत
(C) गांधीनगर   **(D)** राजकोट

34. "चाबहार बंदरगाह" निम्नलिखित में से किस देश में स्थित है?
(A) अफगानिस्तान   **(B)** जिबूती
(C) ओमान   **(D)** ईरान

35. ब्रिटेन के नए प्रधानमंत्री बॉरिस जॉनसन ने अपनी कैबिनेट में किसे गृह मंत्री का पद दिया है?
(A) साजिद जाविद   **(B)** प्रीति पटेल
(C) राहुल सचदेवा   **(D)** नवतेज सरना

36. भारत की पहली महिला सभी महिला विशेष हथियार और युक्ति (SWAT) आतंकवाद विरोधी रणनीति समूह को किस राज्य ने शामिल किया?
(A) गुजरात   **(B)** दिल्ली
(C) महाराष्ट्र   **(D)** हिमाचल प्रदेश

37. "सत्यमेव जयते" किस भारतीय शास्त्र/उपनिषद में उल्लेख किया गया है?
(A) ऋग्वेद   **(B)** अर्थशास्त्र
(C) मुंडका उपनिषद   **(D)** महाभारत

38. इनमें से कौन सी सिंधु घाटी साइट है जहां "घोड़े" के अवशेष पाए गए हैं?

(A) धोलावीरा   (B) लोथल
(C) सुरकोटदा   (D) कालीबंगा

39. एस्पिरिन, जिसका प्रयोग आमतौर पर मामूली दर्द और पीड़ा के लिए दर्द राहत के रूप में होता है मूल रूप से ___ है।
(A) मेथोक्सी बेंजोइक एसिड   (B) मिथाइल सैलिसिलेट
(C) एसिटाइल सैलिसिलिक एसिड   (D) फेनिल सैलिसिलेट

40. "नमक सत्याग्रह" निम्नलिखित में से किस वर्ष किया गया था?
(A) 1932   (B) 1927
(C) 1929   (D) 1930

41. सीमांत स्थायी सुविधा (MSF) किस वर्ष में आरम्भ हुआ था?
(A) 2012   (B) 2013
(C) 2011   (D) 2009

42. प्याज ____ का एक संशोधित रूप है।
(A) पत्ती   (B) तना
(C) जड़   (D) फूल

43. "नोंगक्रेम नृत्य महोत्सव" भारत के किस राज्य में मनाया जाता है?
(A) नागालैंड   (B) मणिपुर
(C) त्रिपुरा   (D) मेघालय

44. "श्रीशैलम बांध" भारत के किस राज्य में स्थित है?
(A) केरल   (B) तमिलनाडु
(C) तेलंगाना   (D) आंध्र प्रदेश

45. "ग्रैंड कैनियन", दुनिया में सबसे बड़ी घाटी किस नदी पर स्थित है?
(A) डेन्यूब   (B) एरी
(C) कोलोराडो   (D) मिशिगन

Computer

46. निम्नलिखित में से कौन सा संबंधित रिकॉर्ड संग्रह है?
(A) डेटा   (B) फाइल
(C) एकाधिक रिकॉर्ड   (D) टेबल (तालिका)

47. एक विशिष्ट विश्वविद्यालय या कॉर्पोरेट लैन जिसमें एक या अधिक सर्वर और क्लाइंट शामिल हैं उसे एक___ कहा जाता है
(A) मास्टर स्लेव नेटवर्क   (B) पीयर-टू-पीयर
(C) ग्राहक सर्वर नेटवर्क   (D) लैन

48. इनमें से कौन सा इंटरनेट में व्यक्तिगत संचार का साधन नहीं है?
(A) चैट   (B) हैंगआउट
(C) त्वरित संदेश   (D) इंस्टानोटस

49. प्रोग्रामिंग चक्र और कार्यक्रम के विस्तृत विवरण, परीक्षण के साथ-साथ कार्यक्रम के प्रिंटआउट को_____ कहा जाता है।
(A) रिपोर्टिंग   (B) दस्तावेज़ीकरण
(C) आउटपुट   (D) विशेष पत्रक

50. एक नए वेब पेज पर नेविगेट करने के लिए जिसके लिए आप यूआरएल जानते हैं, उस यूआरएल को ब्राउज़र के _____ में टाइप करें और एंटर दबाएं?
(A) नाम बटन   (B) घर
(C) पता(एड्रेस) बार   (D) डोमेन बार

51. कंप्यूटर्स डेटा स्टोर करने और गणना करने के लिए _____ संख्या प्रणाली का उपयोग करते हैं?
(A) बाइनरी   (B) हेक्साडेसिमल
(C) ऑक्टल   (D) दशमलव

52. निर्देशिका में निर्देशिका को _____ कहा जाता है
(A) छोटी निर्देशिका   (B) उप निर्देशिका
(C) ग्रैंड निर्देशिका   (D) जूनियर निर्देशिका

53. _____ विशेष रूप से डिजाइन किए गए कंप्यूटर चिप्स हैं जो आपके डिवाइस या आपके इलेक्ट्रॉनिक थर्मोस्टेट जैसे अन्य उपकरणों के अंदर रहते हैं

(A) सर्वर   (B) एम्बेडेड सिस्टम
(C) ग्राहक प्रणाली   (D) रोबोटिक आवेदन

54. ____ आपको कहीं से भी अपने ई-मेल तक पहुंचने की अनुमति देता है
(A) मंच   (B) वेबलॉग
(C) वेबमेल इंटरफ़ेस   (D) संदेश बोर्ड

55. निम्न में से कौन सा दस्तावेज़ है कि फ़ाइल किसी अन्य कंप्यूटर से आपके कंप्यूटर पर स्थानांतरित की जाती है?
(A) अपलोडिंग   (B) डाउनलोडिंग
(C) एक्सेसिंग   (D) रियली सिंपल सिंडिकेशन

Quantitative Aptitude

निर्देश (56-57): नीचे दी गई जानकारी के आधार पर प्रश्नों का उत्तर दें।

दिया गया पाई चार्ट विभिन्न फसलों को उगाने वाले किसानों की संख्या का प्रतिशत वितरण दिखाता है। किसानों की कुल संख्या 800 है, और प्रत्येक किसान केवल एक फसल उगा रहा है।

Percentage distribution of number of farmers growing different crops

बाजरा 29% | चावल 25% | गेहूं 30% | जौ 16%
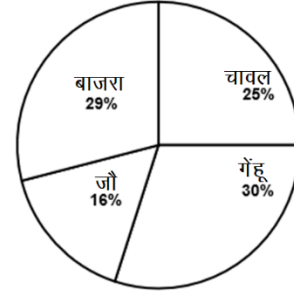
56. धान को उगाने वाले किसानों की संख्या और गेहूं को उगाने वाले किसानों की संख्या का अनुपात ज्ञात करें?
(A) 2:3   (B) 3:4
(C) 4:5   (D) 5:6

57. जौ और बाजरा उगाने वाले किसानों की संख्या का औसत ज्ञात करें?
(A) 150   (B) 180
(C) 210   (D) 240

58. यदि एक संख्या में 2 को जोड़ दिया जाए तो वह अपने वह पारस्परिक (reciprocal) का 48 गुना हो जाएगा| घनात्मक संख्या ज्ञात करें?
(A) 12   (B) 8
(C) 6   (D) 4

59. विशाल शास्त्री नगर से इंद्रलोक तक 5 मिनट में 45 किमी/घंटे की गति से चलता है| यदि वह 15 किमी/घंटे की गति से इंद्रलोक से शास्त्री नगर वापिस आता है तो उसकी औसत गति ज्ञात करें?
(A) 25 किमी/घं   (B) 22.5 किमी/घं
(C) 20 किमी/घं   (D) 24 किमी/घं

60. दिए गए समीकरणों में से किसके मूलों का योग -6 के बराबर हैं?
(A) $x^2 - 6x - 8$ (B) $3x^2 - 6x + 6$
(C) $x^2 + 6x + 8$ (D) $2x^2 + 6x - 6$

61. $\tan(-9\pi/3)$ का मान ज्ञात करें?
(A) -1   (B) $\sqrt{3}$
(C) $-\sqrt{3}$ (D) 0

62. यदि $2^{3x} = 8$ और $3^{y+3} = 81$, तो $(x + y)^2 - (x - y)^2$ मान ज्ञात करें ?
(A) 2   (B) 3
(C) 6   (D) इनमे से कोई नहीं

63. $\tan175° + \tan165° + \ldots + \tan35° + \tan25° + \tan15° + \tan5°$ का मान ज्ञात करें?
(A) 0   (B) 1
(C) $\sqrt{3}$ (D) इनमे से कोई नहीं

64. दूध और पानी का मिश्रण को क्रमशः 4:3, के अनुपात में मिश्रित किया जाता है। यदि मिश्रण में 4 लीटर पानी को जोड़ दिया जाए, तो दूध और पानी का अनुपात क्रमशः 6: 5 हो जाता है। मिश्रण में दूध की प्रारंभिक मात्रा ज्ञात करें ?
(A) 40 लीटर   (B) 48 लीटर
(C) 44 लीटर   (D) 36 लीटर

65. एक व्यक्ति ने रु. 720 की वस्तू को 20% के लाभ पर बेचा। यदि वस्तू को उसके क्रय मूल्य 33.33% के ऊपर अंकित किया, तो वस्तू का अंकित मूल्य ज्ञात करें ?
(A) रु. 780   (B) रु. 900
(C) रु. 800   (D) रु. 720

66. यदि $(\sqrt{x} + 1/\sqrt{x}) = 2$, तो $(x + 1/x)$ का मान ज्ञात करें?
(A) 2   (B) 0
(C) 6   (D) 4

67. A और B अकेले काम को करने में क्रमशः 18 दिन और 24 दिन लगाते है। यदि वे एक के बाद एक दिन छोड़ कर काम करते हैं, जिसमे शुरुआत A करता है, तो काम कितने दिन पूरा हो जाएगा?
(A) 20.5 दिन   (B) 18.5 दिन
(C) 22.75 दिन   (D) 24 दिन

68. एक बल्लेबाज द्वारा पहली 20 पारी के रनों का औसत 46 है। अगली दो पारी में, उसने क्रमशः 10:7 के अनुपात में रन बनाये, 22nd पारी के बाद, 22 पारी में प्रति पारी उसकी औसत दो रन बढ़ी। 21st पारी में उसके द्वारा बनाए गए रन ज्ञात करें?
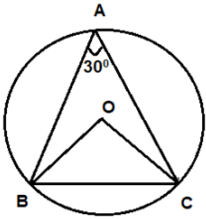(A) 96   (B) 88
(C) 64   (D) 80

69. अनिल के पास शुरुआत में 8000 रु. थे। उसने शॉपिंग में 24% और शेष में से 35% क्लब में खर्च किया। यदि उसने मोहित को भी 2000 रु. दिए, तो उसके पास शेष राशि ज्ञात करें?
(A) 2024 रु.   (B) 1952 रु.
(C) 1836 रु.   (D) 1922 रु.

70. यदि $(x + y)^2/(x^2 – y^2) = -x/y$ है तो $(x^2 + y^2)$ का मान ज्ञात करें ?
(A) 0   (B) 1
(C) -1   (D) इनमे से कोई नहीं

71. दिए गए आकृति में, O, त्रिज्या 8 cm के साथ वृत्त का केंद्र है। BC की लंबाई ज्ञात करें?

(A) 12 cm   (B) 9 cm
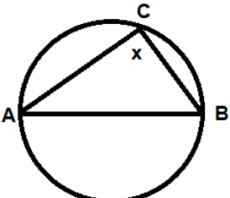(C) 8 cm   (D) इनमे से कोई नहीं

72. यदि $x^2 + x + 1 = 0$ है, तो $x^{12} + x^6 + 1$ का मान ज्ञात करें?
(A) 0   (B) -1
(C) 1   (D) 3

73. यदि sec A – tan A = 12, तो sec A + tan A + cos 60° + tan 45° का मान ज्ञात करें?
(A) 19/12   (B) 7/12
(C) 13/6   (D) 11/4

74. दिए गए आकृति में, AB व्यास है। 'x' का मान ज्ञात करें?

75. यदि a + 1/b = 1 और b + 1/c = 1 है तो मान ज्ञात करें: c + 1/a यदि यह ज्ञात है कि a, b और c शून्य या अनंत संख्या नहीं है।
(A) -1   (B) 1/2
(C) 1   (D) 2

(A) 45°   (B) 60°
(C) 75°   (D) 90°

English Language

Direction (76-80): In the following passage, some of the words have been left out and replaced by a blank represented by an alphabet. First read the passage and try to understand what it is about. Then fill in the blanks as per the questions given.

For a few moments the terrified occupants of Avonlea school did not know whether it was an earthquake or a volcanic explosion that had occurred. The innocent looking parcel which Anne had _____(76)_____ supposed to contain Mrs. Hiram's nut cakes really held a/ an _____(77)_____ of firecrackers and pinwheels for which Warren Sloane had sent to town by St. Clair Donnell's father the day before, _____(78)_____ to have a birthday celebration that evening. The crackers went off in a thunderclap of noise and the pinwheels bursting out of the door spun madly around the room, hissing and spluttering. Anne dropped into her chair white with _____(79)_____ and all the girls climbed shrieking upon their desks. Joe Sloane stood as one transfixed in the midst of the _____(80)_____ and St. Clair, helpless with laughter, rocked to and fro in the aisle. Prillie Rogerson fainted and Annetta Bell went into hysterics.

76. (A) recklessly   (B) brashly
(C) cautious   (D) audaciously

77. (A) myriads   (B) assortment
(C) cacophony   (D) diverse

78. (A) intending   (B) yearning
(C) contemplating   (D) embarking

79. (A) dismay   (B) alarmed
(C) solace   (D) alleviation

80. (A) chaotic   (B) premonition
(C) jubilation   (D) commotion

Direction (81-85): In the following question, a sentence is given with a phrase or idiom in brackets. Select the option given below that can replace the bracketed phrase and mark that as your answer.

81. None of the Murrays were disposed to attend church in the afternoon, except Rosalie: she was **(bent down)** going as usual.
(A) bent upon   (B) bend on
(C) bent out   (D) No Improvement

82. Mrs. Fairfax **(turned down)** to be what she appeared, a placid-tempered, kind-natured woman, of competent education and average intelligence.
(A) turned up   (B) turned out
(C) turned around   (D) No Improvement

83. I **(parted from)** her finally at the door of the Brocklehurst Arms there: each went her separate way.
(A) parted with   (B) parted out
(C) departed of   (D) No Improvement

84. She **(set up)** for the bus station to meet the conveyance which was to take her back to Gateshead.
(A) set down
(B) set about
(C) set off
(D) No Improvement

85. Her husband had been **(cheated from of)** ten dollars by an employer for whom he had once worked in Boston and neither angels nor principalities could have convinced Mrs. Rachel that the whole United States was not responsible for it.
(A) cheated out of
(B) cheated down of
(C) cheated out off
(D) No Improvement

Direction (86-90): In the question given below, rearrange the sentences in the correct order, and choose the correct option.

86. **P.** She sent them to their seats with a sharper tone than she had ever used before.
Q. Anne went to school in no angelic mood.
R. Her cheek was swollen and her face ached.
S. The schoolroom was cold and smoky, for the fire refused to burn and the children were huddled about it in shivering groups.
(A) PQRS
(B) SQRP
(C) RSPQ
(D) QRSP

87. **P.** The stock market crash of October 1929 shocked the United States, but at first it seemed like the country might recover.
Q. That was anything but true.
R. Business felt the effects of the spiral, but its most devastating effects were felt in family homes.
S. A combination of deflation, Midwestern drought and public doubt about the economy sent the country into a financial freefall.
(A) SRQP
(B) PQSR
(C) SPRQ
(D) PRSQ

88. **P.** But the situation was dire for people who could no longer afford shelter or food due to unemployment.
Q. During the Depression, finding a new job wasn't as easy as sending out a resume.
R. With so many men unemployed, and unwilling to perform tasks traditionally coded as feminine, competition for the few jobs that existed was fierce.
S. People tried to come up with creative ways to make ends meet.
(A) RQPS
(B) RSQP
(C) QRSP
(D) QPRS

89. **P.** However, research shows a mass extinction event among other animals is now underway.
Q. Technology may aid human survival.
R. With dinosaurs now long gone, humans are in the top spot among larger-sized animals.
S. Dinosaur history indicates how vulnerable this position can be.
(A) RSQP
(B) QPRS
(C) RPSQ
(D) SRPQ

90. **P.** A century ago, Centralia, Pennsylvania was a busy small town filled with shops, residents and a brisk mining business.
Q. Today couldn't be more different.
R. Coal from local mines fuelled its homes and its economy, and its 1,200 residents worked, played and lived as tight-knit neighbours.
S. Centralia's streets are abandoned and most of its buildings are gone.
(A) PQRS
(B) PRQS
(C) RSQP
(D) RPQS

Direction (91-95): In the following question, a sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice

91. The mission needs to be rethought by the carmakers.
(A) The carmakers need to rethink the mission.
(B) The carmakers needed to rethink the mission.
(C) The mission needs to rethink the carmakers.
(D) The carmakers need to rethought the mission.

92. The violent events would stir anger against enforcement of Prohibition.
(A) Anger will be stirred against enforcement of Prohibition by the violent events.
(B) Anger would be stirred against enforcement of Prohibition by the violent events.
(C) Enforcement of Prohibition would stir anger against the violent events.
(D) The violent events would stir against enforcement of Prohibition, anger.

93. Joseph Sicker gave boxes of apples to unemployed men in New York.
(A) Boxes of apples were given by Joseph Sicker to unemployed men in New York.
(B) Boxes of apples are given by Joseph Sicker to unemployed men in New York.
(C) To unemployed men in New York, Joseph Sicker gave boxes of apples.
(D) Boxes of apples have been given by Joseph Sicker to unemployed men in New York.

94. How could they keep the product relevant?
(A) Could the product be kept relevant by them?
(B) How would the product be kept relevant by them?
(C) How could the product be kept relevant by them?
(D) How could the product being kept relevant by them?

95. Bystanders donate clothing to the orphans.
(A) Clothing was being donated to the orphans by bystanders.
(B) Clothing is being donated to the orphans by bystanders.
(C) Clothing has been donated to the orphans by bystanders.
(D) Clothing is donated to the orphans by bystanders.

Directions (96-100): Read the following passage carefully and answer the questions.

Recently, Amazon announced it had bought PillPack, an online pharmacy for about $1 billion, a source briefed on the deal told The New York Times. The news caused waves in the $560 billion prescription drug industry; shares of publicly-owned drug companies like Walgreens, Rite-Aid, and CVS dropped by 9.4 percent, 13 percent, and 9.2 percent, respectively. Unlike its competitors, it has no brick-and-mortar stores — the company only delivers medications in the mail. Instead of packaging user medications by the prescription (with a month's worth of one drug in one bottle and another drug in another bottle, for example), PillPack packages medications by the dose. This service could be tremendously useful for people who take multiple medications. Amazon's takeover could help PillPack scale up (it currently boasts just 1,000 employees). PillPack, meanwhile, is already licensed to deliver medications to all 50 U.S. states, helping Amazon clear the regulatory hurdles that might have complicated its foray into the prescription drug industry.

96. According to the passage, shares of which of the publicly-owned drug companies DID NOT drop after Amazon bought Pill pack?
(A) Walgreens   **(B)** CVS
(C) Rite-Aid   **(D)** Novartis

97. According to the passage, Amazon bought Pill Pack for about _____.
(A) $2 billion dollars   **(B)** $1 billion dollars
(C) $5 billion dollars   **(D)** $1.8 billion dollars

98. According to the passage, Pillpack's packaging by dose could be helpful for people who _____
(A) take fewer doses
(B) have to take only one medication
(C) take multiple medications
(D) have to take medication only for a short period of time

99. According to the passage, how is Pill pack different from its competitors?
(A) It packages medicines by dose, rather than by prescription.
(B) It has no brick and mortar store, and only delivers medicines in mail.
(C) It only has a brick and mortar store, and does not deliver medicines in mail.
(D) It is licensed to deliver medicines to all 50 U.S. States.

100. According to the passage, the prescription drug industry is worth _____.
(A) $560 billion   **(B)** $580 billion
(C) $660 billion   **(D)** $600 billion

<u>Space for rough work</u>

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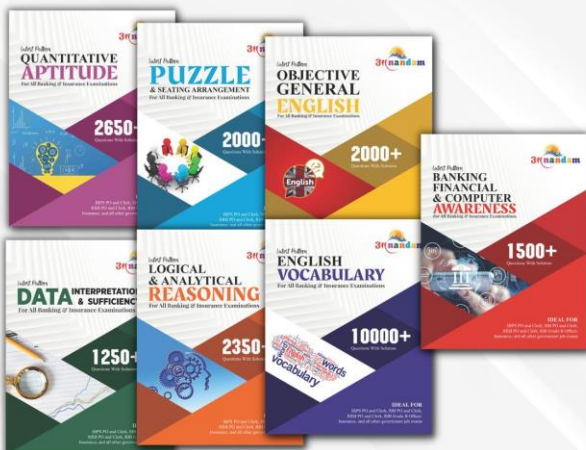# MONTHLY CURRENT AFFAIRS BOOSTER

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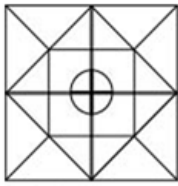
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Reasoning Aptitude

Ans.1(C) जैसे रेनमिनबी चीन की आधिकारिक मुद्रा है, वैसे ही दिरहम संयुक्त अरब अमीरात की आधिकारिक मुद्रा है।

Ans.2(C) दी गई श्रृंखला का विश्लेषण निम्नानुसार किया जा सकता है -
1 (A) + 2 = 3 (C), 3 (C) + 2 = 5 (E);
6 (F) + 2 = 8 (H), 8 (H) + 2 = 10 (J);
11 (K) + 2 = 13 (M), 13 (M) + 2 = 15 (O);
16 (P) + 2 = 18 (R); 18 (R) + 2 = 20 (T)

Ans.3(B) पेट सहित पाचन तंत्र की समस्याओं को एक गैस्ट्रोलॉजिस्ट द्वारा निपटा जाता है।
इसी तरह, नेफ्रोलॉजिस्ट गुर्दे की बीमारी के निदान और प्रबंधन से संबंधित है।

Ans.4(B)

Ans.5(B)

Ans.6(A) दी गई श्रृंखला का विश्लेषण निम्नानुसार किया जा सकता है -
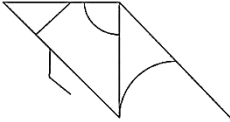Umbrella, Principle, Train, Friendship, Hastily (शब्दकोश में क्रम के अनुसार)

Ans.7(A) इकलास की नानी की केवल एक बहू है। इस प्रकार, इकलास की मां उसकी दादी की एकमात्र बहू है और उसका भाई इकलास का मामा है, जिसकी पत्नी की सास इकलास की नानी है।

Ans.8(C) चिन्हों का सही उपयोग क्रमशः ×, =, = और × होगा।
6 × 9 = 54 = 2 × 27.

Ans.9(B) शब्दकोश के क्रम में शब्द हैं
'Beaucoup', 'Beaugregory',
'Beaujolais', 'Beaumontia'.

Ans.10(C)

Ans.11(A)

इसलिए, केवल निष्कर्ष। अनुसरण करता है।

Ans.12(A) 9 + 15 = 24
24 + 20 = 44
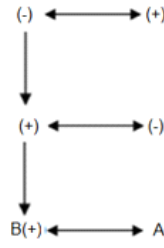44 + 25 = 69
69 + 30 = 99
99 + 35 = 134

Ans.13(D) पैटर्न यहाँ है,
[पंक्ति 1, कॉलम 3] में संख्या = 60/12 का भागफल = 5
[पंक्ति 2, कॉलम 3] में संख्या = 93/31 का भागफल = 3
[पंक्ति 3, कॉलम 3] में संख्या = 50/25 का भागफल = 2

Ans.14(C) परिवार वृक्ष निम्न प्रकार होगा-

Ans.15(C) यहाँ अनुसरण किया गया पैटर्न है,
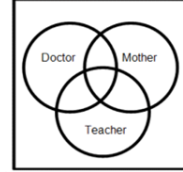6 + 12 = 18
18 + 24 = 42
42 + 36 = 78
78 + 48 = 126
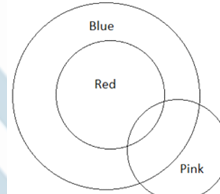
Ans.16(C) चिन्हों का सही उपयोग क्रमशः ×, ÷ और = होगा।
6 × 8 ÷ 4 = 12.

Ans.17(D)

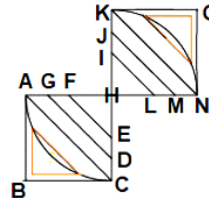**Ans.18(B)** 'DINNER' के लिए कोड होगा '%&**#?'.

Ans.19(A)

इसलिए, केवल निष्कर्ष। अनुसरण करता है।

Ans.20(B) जैसे कि H, I और N का प्रतिनिधित्व करने वाली संख्याओं का योग 31 है। इसी प्रकार, P, E और S का प्रतिनिधित्व करने वाली संख्याओं का योग 40 है।

Ans.21(A)

दो हाइलाइट किए गए त्रिभुज के अलावा, दिए गए आंकड़े में आठ त्रिभुज हैं - HFE, HGD, HAC, ABC, OKN, HIL, HJM, HKN.
इस प्रकार, दिए गए आंकड़े में दस त्रिभुज हैं।

Ans.22(A) Fibroblast शब्दकोश में चौथे स्थान पर आएगा।

Ans.23(C) DEPARTMENT में, D 7 का प्रतिनिधित्व करता है,
E, 3 का प्रतिनिधित्व करता है,
P,1 का प्रतिनिधित्व करता है, A, 2 का प्रतिनिधित्व करता है, R, 4 का प्रतिनिधित्व करता है, T, 5 का प्रतिनिधित्व करता है, M, 8 का प्रतिनिधित्व करता है, N, 6 का प्रतिनिधित्व करता है, T, 5 का प्रतिनिधित्व करता है। इसलिए, 'PATTERNED' को 125534637 के रूप में कोडित किया जाएगा।

Ans.24(D) यहां, लगातार अक्षरों के बीच का अंतर दो है। तो, अगला अक्षर B होगा।

Ans.25(D) मैट्रिसेस 1 और 2 से,
R को 41, 12, 78 के रूप में कोडित किया जा सकता है;
A को 03, 23, 77 के रूप में कोडित किया जा सकता है;
N को 30, 65 के रूप में कोडित किया जा सकता है;
G को 20, 75 के रूप में कोडित किया जा सकता है; तथा
E को 44, 99 के रूप में कोडित किया जा सकता है।

General Studies

Ans.26(B) वीनस को कभी-कभी पृथ्वी का जुड़वां कहा जाता है क्योंकि शुक्र और पृथ्वी लगभग एक ही आकार के होते हैं, व एक ही द्रव्यमान के हैं और एक समान संरचना (समान सामग्री से बने हैं)। वे पड़ोसी ग्रह भी हैं।

Ans.27(B) बायोकैमिकल ऑक्सीजन डिमांड (बीओडी, जिसे बायोलॉजिकल ऑक्सीजन डिमांड भी कहा जाता है) एक दिए गए पानी के नमूने में मौजूद कार्बनिक पदार्थों को तोड़ने के लिए एरोबिक जैविक जीवों द्वारा आवश्यक ऑक्सीजन की मात्रा (यानी मांग) है। कम बीओडी अच्छी गुणवत्ता वाले पानी का एक संकेतक है, जबकि उच्च बीओडी प्रदूषित पानी को इंगित करता है।

Ans.28(B) बांग्लादेश और भारत 4,096 किलोमीटर लंबी अंतरराष्ट्रीय सीमा, दुनिया की पांचवीं सबसे लंबी भूमि सीमा साझा करते हैं। 2,217 किलोमीटर के साथ पश्चिम बंगाल बांग्लादेश के साथ सबसे लंबी सीमा साझा करता है। अन्य राज्यों में असम में 262 किमी, त्रिपुरा में 856 किमी, मिजोरम में 180 किमी, मेघालय में 443 किमी शामिल हैं।

Ans.29(C) मौलिक कर्तव्यों (भाग IVA, अनुच्छेद 51 ए) को 42 वें संवैधानिक संशोधन अधिनियम द्वारा जोड़ा गया था। अब तक 11 मौलिक कर्तव्य हैं। इन कर्तव्यों को करने के लिए नागरिकों को संविधान द्वारा नैतिक रूप से बाध्य किया जाता है।

Ans.30(C) पलायन वेग एक ग्रह या चंद्रमा को छोड़ने के लिए आवश्यक न्यूनतम वेग है। पृथ्वी की सतह पर, पलायन वेग लगभग 11.2 किमी / सेकंड है।

Ans.31(C) सरकारिया आयोग की स्थापना 1983 में भारत की केंद्र सरकार द्वारा की गई थी। सरकारिया आयोग का जनादेश केंद्र-राज्य संबंधों की जांच करने और भारत के संविधान के ढांचे में बदलाव का सुझाव देने के लिए था। आयोग का नाम इसलिए रखा गया क्योंकि इसकी अध्यक्षता न्यायमूर्ति रंजीत सिंह सरकारिया (आयोग के अध्यक्ष) ने की थी।

Ans.32(D) माधव राष्ट्रीय उद्यान भारत के मध्य प्रदेश के शिवपुरी जिले में स्थित है।

Ans.33(C) केंद्र सरकार ने अधिसूचित किया है कि IFSCA गुजरात के गांधीनगर में अपने मुख्यालय के साथ अंतरराष्ट्रीय वित्तीय सेवा केंद्रों (IFSCs) में सभी वित्तीय सेवाओं को विनियमित करने के लिए एक एकीकृत निकाय है।

Ans.34(D) चाबहार बंदरगाह परियोजना ईरान में स्थित है।

Ans.35(B) प्रीति पटेल ब्रिटेन में भारतीय मूल की पहली गृह मंत्री बनीं है। प्रीति पटेल ने ब्रिटेन के यूरोपीय संघ (ईयू) से बाहर होने के पक्ष में जून 2016 के जनमत संग्रह की अगुआई में 'वोट लीव अभियान' शुरू किया था। वे ब्रिटेन की पूर्व प्रधानमंत्री मार्गरेट थैचर को अपना आदर्श नेता मानती हैं।

Ans.36(B) दिल्ली पुलिस में शामिल आतंकवाद-रोधी अभियानों के लिए भारत की पहली सर्व-महिला विशेष हथियार और रणनीति (स्वाट) टीम। टीम में पूर्वोत्तर राज्यों के 36 महिला कमांडो शामिल हैं।

Ans.37(C) "सत्यमेव जयते" ("सत्य अकेला विजय") प्राचीन भारतीय शास्त्र मुंडका उपनिषद का एक मंत्र है। भारत की स्वतंत्रता के बाद, इसे 26 जनवरी 1950 में भारत के राष्ट्रीय आदर्श वाक्य के रूप में अपनाया गया था।

Ans.38(C) सुरकोटदा (गुजरात) साइट में घोड़े के अवशेष मिले हैं जिन्हे 2000 ईसा पूर्व, जिसे सिंधु घाटी सभ्यता के संबंध में एक महत्वपूर्ण अवलोकन माना जाता है।

Ans.39(C) एस्पिरिन, या एसिटाइलसैलिसिलिक एसिड (एएसए), आमतौर पर मामूली दर्द और दर्द के लिए दर्द निवारक के रूप में और बुखार को कम करने के लिए उपयोग किया जाता है।

Ans.40(D) 12 मार्च 1930 को, गांधीजी और उनके अनुयायियों ने अपना 24-दिवसीय मार्च दांडी (गुजरात के तटीय शहर) से शुरू किया। यह ब्रिटिश नमक एकाधिकार के खिलाफ अभियान था।

Ans.41(C) सीमांत स्थायी सुविधा (MSF) बैंकों के लिए एक आपातकालीन स्थिति में भारतीय रिज़र्व बैंक से उधार लेने के लिए एक खिड़की है जब अंतर-बैंक तरलता पूरी तरह से खत्म हो जाती है। 9 मई 2011 से MSF लागू हुआ।

Ans.42(B) प्याज के पौधे में खोखले, नीले-हरे रंग के पत्तों का एक प्रशंसक होता है और पौधे के आधार पर उसका बल्ब एक निश्चित दिन की लंबाई तक पहुंच जाता है। बल्ब छोटे, संकुचित, भूमिगत तनों से बने होते हैं।

Ans.43(D) हाल ही में, मेघालय में खासी हिल्स के लोगों द्वारा नोंग्क्रेम नृत्य उत्सव मनाया गया। यह त्यौहार प्रतिवर्ष मनाया जाता है। लोग समुदाय की अच्छी फसल, शांति और समृद्धि के लिए प्रार्थना करते हैं। देसी खासी जनजाति की उप-जनजाति, हेमा खिरिम के पुरुष सदस्यों द्वारा "का शद मस्तीह" नामक एक अनोखा नृत्य किया जाता है।

Ans.44(D) श्रीशैलम बांध का निर्माण कुर्नूल जिले में कृष्णा नदी के पास, आंध्र प्रदेश के पास किया गया है और यह देश का दूसरा सबसे बड़ा क्षमता वाला पनबिजली स्टेशन है।

Ans.45(C) ग्रांड कैन्यन संयुक्त राज्य अमेरिका के एरिज़ोना में कोलोराडो नदी द्वारा नक्काशीदार खड़ी-किनारे वाली घाटी है।

Computer

Ans.46(D) टेबल (तालिका) संबंधित रिकॉर्ड का संग्रह है।

Ans.47(C) एक विशिष्ट विश्वविद्यालय या कॉर्पोरेट लैन जिसमें एक या अधिक सर्वर और क्लाइंट शामिल हैं, को क्लाइंट सर्वर नेटवर्क कहा जाता है।

Ans.48(D) इंस्टानोटस ,इंटरनेट में व्यक्तिगत संचार का माध्यम नहीं है।

Ans.49(B) प्रोग्रामिंग चक्र और कार्यक्रम का एक विस्तृत लिखित विवरण, टेस्ट्सल्ट्स और कार्यक्रम के प्रिंटआउट के साथ दस्तावेज़ीकरण कहा जाता है।

Ans.50(C) एक नए वेब पेज पर नेविगेट करने के लिए जिसके लिए आप यूआरएल जानते हैं, ब्राउज़र के पता (एड्रेस) बार में यूआरएल टाइप करें और एंटर दबाएं|

Ans.51(A) कंप्यूटर डेटा स्टोर करने और गणना करने के लिए बाइनरी संख्या प्रणाली का उपयोग करते हैं|

Ans.52(B) निर्देशिका में निर्देशिका को उप निर्देशिका कहा जाता है।

Ans.53(B) एम्बेडेड सिस्टम विशेष रूप से डिज़ाइन किए गए कंप्यूटर चिप्स हैं जो आपके डिवाइस या आपके इलेक्ट्रॉनिक थर्मोस्टेट जैसे अन्य उपकरणों के अंदर रहते हैं

Ans.54(C) वेबमेल इंटरफ़ेस आपको कहीं से भी अपने ई-मेल तक पहुंचने की अनुमति देता है|

Ans.55(D) रियली सिंपल सिंडिकेशन का अर्थ है कि फ़ाइल किसी अन्य कंप्यूटर से आपके कंप्यूटर पर स्थानांतरित की जाती है|

Quantitative Aptitude

Ans.(56-57)

फसल	किसानों क संख्या
धान	0.25 × 800 = 200
गेंहू	0.30 × 800 = 240
जौ	0.16 × 800 = 128
बाजरा	0.29 × 800 = 232

Ans.56(D) इसलिए, आवश्यक अनुपात = 200: 240 = 5: 6

Ans.57(B) इसलिए, आवश्यक औसत = (128 + 232)/2 = 360/2 = 180

Ans.58(C) माना, संख्या 'x' है.
तब, $x + 2 = 48/x$
$x^2 + 2x - 48 = 0$
$x^2 + 8x - 6x - 48 = 0$
$x(x + 8) - 6(x + 8) = 0$
$(x - 6)(x + 8) = 0$
$x = 6, -8$
इसलिए, धनात्मक संख्या 6 है।

Ans.59(B) शास्त्री नगर और इंद्रलोक के बीच की दूरी = 45 × (5/60)
= 3.75 किमी
विशाल द्वारा कवर की गई कुल दूरी
= 2 × 45 × (5/60) = 7.5 किमी
विशाल द्वारा लिया गया कुल समय = (5/60) + (3.75 / 15)
= 1/3 घंटे
आवश्यक औसत = 7.5 / (1/3) = 22.5 किमी / घंटा

Ans.60(C) समीकरण की $ax^2 + bx + c = 0$ से तुलना करने पर,
मूलों का योग = -b/a

Ans.61(D)

Ans.62(D) $2^{3x} = 8$
$2^{3x} = 2^3$
$3x = 3$
अतः, $x = 1$
अब, $3^{y+3} = 81$
$y + 3 = 4$
अतः, $y = 1$
अब, $(x + y)^2 - (x - y)^2 = 4$

Ans.63(A) $\tan 175° + \tan 165° + ... + \tan 35° + \tan 25° + \tan 15° + \tan 5°$
$-\tan 5° - \tan 15° - \tan 25° .... + \tan 35° + \tan 25° + \tan 15° + \tan 5°$
$= 0$

Ans.64(B) यदि, दूध और पानी की प्रारंभिक मात्रा क्रमशः 4x लीटर और 3x लीटर हो।

प्रश्न के अनुसार,

$4x/ (3x + 4) = 6/5$

$20x = 18x + 24$

$2x = 24, x = 12$

तो, मिश्रण में दूध की प्रारंभिक मात्रा = $4x$ = 48 लीटर

Ans.65(C) वस्तु की क्रय मूल्य = $720 / 1.2$ = रु. 600

वस्तु का अंकित मूल्य = $(4/3) × 600$ = रु. 800

Ans.66(A) $(\sqrt{x} + 1/\sqrt{x}) = 2$

दोनों ओर का वर्ग करने पर,

$x + 1/x + 2 × \sqrt{x} × 1/\sqrt{x} = 4$

$x + 1/x = 2$

Ans.67(A) कुल काम = 18 और 24 का एलसीएम = 72 यूनिट

A के प्रति दिन यूनिट = $72/18$ = 4 इकाइयाँ

B के प्रति दिन यूनिट = $72/24$ = 3 यूनिट

2 दिनों में किए गए कार्यों की इकाइयाँ = 4 + 3 = 7 इकाइयाँ

तो, 70 इकाइयों का काम 20 दिनों में पूरा हो जाएगा।

शेष 2 इकाइयों का काम ए द्वारा $2/4$ = 0.5 दिनों में किया जाता है

दिनों की आवश्यक संख्या = 20.5 दिन

Ans.68(D) 20 पारियों में कुल रन = 20 × 46 = 920

यदि, 21 वें और 22 वें इनिंग में रन क्रमशः $10x$ और $7x$ हैं।

इसलिए, $920 + 10x + 7x = 48 × 22$

$17x = 136, x = 8$

21 वीं पारी में उनके द्वारा बनाए गए रन = $10x$ = 80

Ans.69(B) खरीदारी पर खर्च हुई राशि = 8000 का 24% = रु. 1920

क्लब में खर्च की गई राशि = 35% (8000 - 1920) = रु. 2128

राशि उसके पास बची

= 8000 - (1920 + 2128 + 2000) = रु. 1952

Ans.70(A) $(x + y)^2/(x^2 - y^2) = -x/y$

$(x + y)/(x - y) = -x/y$

$xy + y^2 = -x^2 + xy$

$x^2 + y^2 = 0$

Ans.71(C) $\angle BOC = 2 × \angle BAC$

$\angle BOC = 2 × 30° = 60°$

चूकि, $OB = OC = 8$ सेमी (radius)

$\triangle BOC$ का सभी कोण 60° है

अतः, $\triangle BOC$ एक समबाहु $\triangle$ है.

इसलिए, BC = 8 सेमी

Ans.72(D) $x^2 + x + 1 = 0$

$(x - 1)(x^2 + x + 1) = 0$

$x^3 - 1 = 0$

$x^3 = 1$

$x^{12} + x^6 + 1 = (x^3)^4 + (x^3)^2 + 1 = 1 + 1 + 1 = 3$

Ans.73(A) $\sec^2 A - \tan^2 A = 1$

$(\sec A + \tan A)(\sec A - \tan A) = 1$

$(\sec A + \tan A) × 12 = 1$

$(\sec A + \tan A) = 1/12$

अतः, $\sec A + \tan A + \cos 60° + \tan 45°$

$= 1/12 + 1/2 + 1 = (1 + 6 + 12)/12 = 19/12$

Ans.74(D)
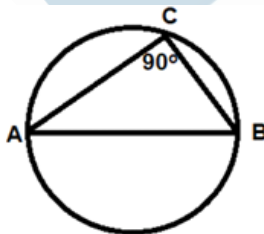
चूंकि AB वृत्त का व्यास है।

इसलिए, x = 90°

Ans.75(C) माना, $a = -1$

तो, $-1 + (1/b) = 1$

$1/b = 2$

अतः $b = 1/2$

और $b + (1/c) = 1$

$1/2 + 1/c = 1$

$1/c = 1/2$

$c = 2$

अतः $c + 1/a = 2 + 1/(-1) = 2 - 1 = 1$

English Language

Ans.76(A) We need an adverb here to modify the verb (supposed). The context implies that we need a synonym of careless or rash, as the passage gives us the consequence of this carelessness. Recklessly - carelessly. Brashly – self-assertive in a rude or noisy way. Cautious - careful. Audaciously - in a bold or daring manner. C is incorrect as it is an adjective.

Ans.77(B) We need a noun here, in singular form, as denoted by the use of the article 'a/an'. Myriad/ assortment - a large variety. Cacophony - a harsh mixture of different sounds. Diverse - very different. A is incorrect as it is in plural form. C does not lend any meaning to the context. D is incorrect as it is an adjective.

Ans.78(A) We need a present participle of a verb here. Yearning - wanting. Contemplate - think deeply. Embark - to depart on a journey. B is incorrect as 'yearning' does not take the preposition 'to' after it. Among the remaining words, A holds greatest meaning in the context of the passage.

Ans.79(A) We need a noun here which carries a negative meaning, as the context talks about a frightening incident.

Dismay - concern or distress. Alarmed - scared. Solace - comfort. Alleviation - ease or relief from pain or suffering. B is incorrect as it is an adjective. C and D carry positive meanings.

Ans.80(D) We need a noun here as denoted by the use of the article 'the'. Articles are used only before nouns.

Chaotic - disorderly. Premonition - a strong feeling that something is about to happen, especially something unpleasant. Jubilation - excitement and joy. Commotion - disorder. A is incorrect as it is an adjective. C carries a positive meaning which does not suit the context as the passage describes an alarming incident. B does not lend meaning to the context.

Ans.81(A) Replace BENT DOWN with BENT UPON. We need a phrase that means determined as conveyed by the sentence.

Bent upon - determined. Bent down - incline the body downwards. Bent out (of shape) - to become distorted. B will be incorrect as we need the past participle here as it is acting as an adjective modifying the proper noun 'Rosalie'. 'Bend' is the first form of the verb.

Ans.82(B) Replace TURNED DOWN with TURNED OUT. We need a phrase that means to be known or discovered to be.

Turn up - appear or arrive somewhere. Turn out - to be known to be. Turn down - reject. Turn around - to spin around in a circular motion.

Ans.83(D) The phrase fits grammatically and contextually in the sentence. We need a phrase that means to be separated from someone.

Part with - to be separated from a possession (money, valuables, etc.). Part from - to be separated from a close friend or family member. 'Part out' is grammatically incorrect. 'Departed' will take the preposition 'from' after it instead of 'of'.

Ans.84(C) Replace SET UP with SET OFF. We need a phrase here that means left or departed.

Set down - to put something down from one's hands onto a surface such as a table or shelf. Set about - to start doing something. Set up - to arrange or organize something. Set off - to leave for somewhere.

Ans.85(A) Replace CHEATED FROM OF with CHEATED OUT OF. 'Cheated out of' means to be deceived and deprived of money or valuables. The other phrases are grammatically incorrect.

Ans.86(D) The correct order is QRSP. Clearly, the passage must begin with Q, as it introduces the character who is discussed in the rest of the passage. Q tells us that Anne was not in a pleasant mood. R follows by giving the reason for this - she was in pain. S continues by telling us about the schoolroom and the schoolchildren. P concludes the passage by telling us how she (Anne) was stricter with them (schoolchildren mentioned in S).

Ans.87(B) The correct order is PQSR. P begins the passage by introducing the event that is to be discussed in the passage – the stock market crash of 1929. Q follows by referring to the idea mentioned in P that it was possible for US to recover, and tells us that it was untrue. S continues by telling us why it was untrue, and the factors that made it difficult for US to recover. R tells us the effects of the factors mentioned in S.

Ans.88(C) The correct order is QRSP. Q begins the passage by introducing the event which is discussed in the subsequent lines – the Depression. R tells us why it was difficult finding a new job during the Depression, as mentioned in Q. S follows by telling us how people tries to recover from this. P builds further on this and tells us that despite the attempts, the situation remained grave for many.

Ans.89(A) The correct order is RSQP. RS begin the passage as a pair: R tells us how humans occupy the top spot among animals now that dinosaurs are extinct, and S follows by commenting on the vulnerability of this top spot. Q follows by giving us a hope about how technology might help protect us from the vulnerability that this spot brings. P counters this by telling us that despite our having technology, research shows that a mass extinction event is soon to come.

Ans.90(B) Following chronological order of events, PR begin the passage as a pair: P introduces the town to be discussed and the timeline. R follows by referring to the town and building further on its description. QS follow as a pair: Q tells us that this is in stark contrast to today. S gives us the reason for this and tells us the present scenario.

Ans.91(A) The sentence is in indicative mood, passive voice and simple present tense (needs). Follow the rules below to convert a sentence in indicative mood to active voice:
1. The subject clause will become the object clause. Here, the subject (THE MISSION) will change to the object of the verb, and the object (THE CARMAKERS) will change into the subject and begin the sentence.
2. Replace NEEDS with NEED as the subject CARMAKERS is in plural form.
3. Replace BE RETHOUGHT with TO RETHINK as the passive voice construction TO + BE + VERB will not be used in a sentence with active voice.

Ans.92(B) The sentence is in indicative mood, active voice and future conditional tense (would). Follow the rules below to convert a sentence in indicative mood to passive voice:
1. The subject clause will become the object clause. Here, the subject (THE VIOLENT EVENTS) will change to the object of the verb, and the object (ANGER) will change into the subject and begin the sentence.
2. Replace WOULD STIR with WOULD BE STIRRED as the passive voice construction for future conditional tense is WOULD + BE + SUBJECT.
3. Add the conjunction BY before THE VIOLENT EVENTS to link the verb with its object.
C and D do not change the sentence to passive voice, rather they alter the placement of clauses in the sentence.

Ans.93(A) The sentence is in indicative mood, active voice and simple past tense (gave). Follow the rules below to convert a sentence in indicative mood to passive voice:
1. The subject clause will become the object clause. Here, the subject (JOSEPH SICKER) will change to the object of the verb, and the object (BOXES OF APPLES) will change into the subject and begin the sentence.
2. Replace GAVE with WERE GIVEN as the passive voice construction for simple past tense is WERE + GIVEN.
3. Add the conjunction BY before JOSEPH SICKER to link the verb with its object.
C does not change the sentence to passive voice, rather it alters the placement of clauses in the sentence.

Ans.94(C) The sentence is in interrogative mood and active voice. Follow the rules below to convert a sentence in interrogative mood to passive voice:
1. The subject clause will become the object clause. Here, the subject (THEY) will change to the object of the verb, and the object (THE PRODUCT) will change into the subject.
2. Replace THEY with THEM, as the subject is changing to object so the objective pronoun is to be used.
3. The modal verb COULD will remain unchanged. Replace KEEP with BE KEPT. The passive voice construction for a sentence in interrogative mood is "Interrogative pronoun (HOW) + subject (COULD THE PRODUCT) + verb clause (BE KEPT RELEVANT) + object (BY THEM)".
4. Add the conjunction BY before THEM to link the verb with its object.

Ans.95(D) The sentence is in indicative mood and active voice. Follow the rules below to convert a sentence in indicative mood to passive voice:
1. The subject clause will become the object clause. Here, the subject (BYSTANDERS) will change to the object of the verb, and the object (CLOTHING) will change into the subject and begin the sentence.
2. Replace DONATE with IS DONATED as the passive voice construction for simple present tense is IS + VERB.
3. Add the conjunction BY before BYSTANDERS to link the verb with its object.

Ans.96(D)
Ans.97(B)
Ans.98(C)
Ans.99(B)
Ans.100(A)