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Paper I

Section I : General Awareness

1. Worship of mother Goddess was associated with
 - (a) Aryan Civilisation
 - (b) Mediterranean Civilisation
 - (c) Indus Valley Civilisation
 - (d) Later Vedic Civilisation
2. The Dilwara Jain temple at Mount Abu in Rajasthan were built by the followers of
 - (a) Buddhism
 - (b) Jainism
 - (c) Hinduism
 - (d) Sikhism
3. Who was the author of Gita Govinda?
 - (a) Jayadeva
 - (b) Kalhana
 - (c) Kalidasa
 - (d) Raja Rao
4. Coronation of Shivaji took place in
 - (a) AD 1627
 - (b) AD 1674
 - (c) AD 1680
 - (d) AD 1670
5. The Akal Takht was built by
 - (a) Guru Ramdas
 - (b) Guru Teg Bahadur
 - (c) Guru Hargobind
 - (d) Guru Nanak
6. Who discovered the sea route to India?
 - (a) Vasco da Gama
 - (b) Columbus
 - (c) Magellan
 - (d) Henry the Navigator
7. The English established their first factory in India at
 - (a) Bombay
 - (b) Surat
 - (c) Sutanti
 - (d) Madras
8. Begum Hazrat Mahal led the 1857 Revolt from
 - (a) Lucknow
 - (b) Kanpur
 - (c) Banaras
 - (d) Allahabad
9. The first satyagraha of Gandhiji for the cause of indigo farmers was observed at
 - (a) Champaran
 - (b) Chauri-Chaura
 - (c) Bardoli
 - (d) Sabarmati
10. Kesari, the newspaper was started by
 - (a) GK Gokhale
 - (b) B G Tilak
 - (c) Sardar Patel
 - (d) Raja Ram Mohan Roy
11. Mahatma Gandhiji started his Dandi March from
 - (a) Dandi
 - (b) Porbandar
 - (c) Ahmedabad
 - (d) Sabarmati Ashram
12. Which planet in our solar system is nearly as big as the Earth?
 - (a) Mercury
 - (b) Mars
 - (c) Venus
 - (d) Jupiter
13. Tundras are
 - (a) deciduous forests
 - (b) tropical rain forests
 - (c) cold deserts
 - (d) hot deserts
14. The lowest layer of the atmosphere is
 - (a) stratosphere
 - (b) thermosphere
 - (c) troposphere
 - (d) mesosphere
15. Which is the highest plateau in India?
 - (a) Deccan plateau
 - (b) Chotanagpur plateau
 - (c) Ladakh plateau
 - (d) Baghelkhand plateau
16. The longest river of peninsular India is
 - (a) Cauvery
 - (b) Narmada
 - (c) Krishna
 - (d) Godavari
17. The Northern part of the West coast is known as
 - (a) Coromandal coast
 - (b) Malabar coast
 - (c) Konkan coast
 - (d) Northern circars

18. That program which can be read by human, is called?
(a) Program code (b) Human code
(c) Source code (d) System code
19. Which of the following is not a cause of low productivity in Indian agriculture?
(a) Co-operative farming
(b) Inadequate inputs availability
(c) Sub-division and fragmentation of land holdings
(d) Poor finance and marketing facilities
20. Which one of the following is not a port along the Western coast of India?
(a) Nhava Sheva (b) Marmugao
(c) Tuticorin (d) Kochi
21. Delhi gets winter rainfall due to
(a) South-West monsoons (b) North-East monsoon
(c) Conventional rain (d) Western disturbance
22. Collective consumption means
(a) household consumption
(b) individual consumption
(c) self consumption
(d) consumption by the citizens of the country
23. National income is also called as
(a) GNP at factor cost (b) GNP at market price
(c) NNP at factor cost (d) NNP at market price
24. The main source of revenue for a state Government in India is
(a) sale tax (b) excise duty
(c) income tax (d) property tax
25. In which of the following year will India host the G-20 Summit?
(a) 2019 (b) 2020
(c) 2021 (d) 2022
26. Which one of the following is an example of optional money?
(a) Currency note (b) Coins
(c) Cheque (d) Bond
27. Which of the following plans had not actual growth rate higher than the targetted growth rate?
(a) Eighth Five Year Plan
(b) Fourth Five Year Plan
(c) Fifth Five Year Plan
(d) Seventh Five Year Plan
28. The Drafting of the Constitution was completed on
(a) 26th January, 1950 (b) 26th December, 1949
(c) 26th November, 1949 (d) 30th November, 1950
29. What is the main source of political power in India?
(a) The People
(b) The Constitution
(c) The Parliament
(d) The Parliament and the State Legislatures
30. The term 'education' belongs to the
(a) Union list (b) State list
(c) Concurrent list (d) Residuary subject
31. Under which article of the Constitution of India can the Fundamental Rights of the members of the armed forces be specifically restricted?
(a) Article 19 (b) Article 21 (c) Article 25 (d) Article 33
32. What is the status of the Right to Property now?
(a) Legal Right (b) Human Right
(c) Fundamental Right (d) Natural Right
33. The main purpose of including the Directive Principles of State Policy (DPSP) in the Indian Constitution
(a) establish a welfare state
(b) establish a secular state
(c) check the arbitrary action of the government
(d) provide best opportunities of development by the government
34. The winning candidate in the Election of President of India should secure
(a) majority, number of votes polled
(b) 66% of votes polled
(c) 50% of votes polled
(d) more than 50% and majority of the total votes polled
35. Non-alignment basically implies
(a) choosing its own policy
(b) neutrality towards power blocks
(c) bringing peace and unity to the world
(d) being a third world power
36. When did India join the United Nations?
(a) 1945 (b) 1947
(c) 1950 (d) 1954
37. The main objective of the World Trade Organisation (WTO) is to
(a) establish a harmonious atmosphere in the world market
(b) encourage international trade
(c) increase the volume of international trade through the removal of restrictions on trade gradually
(d) establish a center for trading

- 38.** Which of the following awards is given for excellence in sports coaching?
(a) Sahitya Academy Award
(b) Dronacharya Award
(c) Arjuna Award
(d) Dada Saheb Phalke Award
- 39.** The Nobel Prize for Economics was instituted by
(a) Alfred Noble
(b) Sweden's Central Bank
(c) The Nobel Committee
(d) World Bank
- 40.** The book entitled 'Spell of the Tiger' is written by
(a) Jim Corbett
(b) Valmik Thapar
(c) Sy Montgomery
(d) Atul Sethi
- 41.** Veer Savarkar International Airport located in has been declared as an Authorised Immigration check post?
(a) Guwahati, Assam (b) Cuttack, Odisha
(c) Port Blair, Andaman and Nicobar Islands
(d) Itanagar, Arunachal Pradesh
- 42.** The Shanghai Cooperation Organisation (SCO) consists of
(a) China, Russia, Kazakhstan, Uzbekistan, Tajikistan and Kyrgyzstan
(b) China, Russia, Mongolia, Kazakhstan, Uzbekistan and Tajikistan
(c) China, Russia, Mongolia, Iran, Kazakhstan and Uzbekistan
(d) China, Russia, Iran, Uzbekistan, Tajikistan and Kyrgyzstan
- 43.** Highest unit to measure distance is
(a) Light year
(b) Astronomical unit
(c) Parsec
(d) None of these
- 44.** Chemical name of Vitamin B₆ is
(a) Niacin
(b) Pyridoxine
(c) Cyanocobalamin
(d) Riboflavin
- 45.** Who is the propounder of 'Laws of Motion'?
(a) Newton
(b) Einstein
(c) Ferrell
(d) Copernicus
- 46.** DTP stands for
(a) Desktop Publishing
(b) Delhi Top Publisher
(c) Disk Top Per Second
(d) Development Publish
- 47.** Which one of the following acid is used to preserve the medicine and food?
(a) Citric acid
(b) Benzoic acid
(c) Formic acid
(d) Acetic acid
- 48.** Which one of the following make up Central Nervous System together with brain?
(a) Neuron
(b) Brain
(c) Spinal Cord
(d) Central Nervous System
- 49.** Colour blindness is caused by
(a) contagious
(b) acquire
(c) genetic
(d) congenital
- 50.** Fahein came to India in which of the following reign of emperor?
(a) Harshvardhan
(b) Mahmud Ghazni
(c) Chandragupta II
(d) Chandragupta I

Section II : English Language

Directions (Q. Nos. 51-55) *In the following questions, sentences given with blanks to be filled in with the appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.*

51. I purposely meet you during my visit to Kashmir.
(a) won't (b) hadn't
(c) wouldn't (d) didn't
52. The waiter hasn't bought the coffee I have been here an hour already.
(a) still (b) yet
(c) up (d) till
53. This is a comfortable house to live
(a) in (b) on
(c) out (d) into
54. He didn't pass the exam. That was he didn't study hard.
(a) so (b) because (c) and (d) but
55. He shows great ability Mathematics.
(a) at (b) for (c) about (d) in

Directions (Q. Nos. 56-58) *In these questions, out of four alternatives choose the word opposite in meaning of the given word.*

56. **INSULT**
(a) Humiliation (b) Credibility
(c) Degradation (d) Honour
57. **CRUDE**
(a) Classical (b) Graceful
(c) Natural (d) Polished
58. **LIBERTY**
(a) Freedom (b) Liberation
(c) Bondage (d) Crowded
- Directions** (Q. Nos. 59-61) *In these questions, out of four alternatives choose the one which best expresses the same meaning of the given word.*
59. **OBTAIN**
(a) Salubrious (b) Elated
(c) Spirited (d) Procure
60. **INDOLENT**
(a) Urgent (b) Menacing
(c) Lazy (d) Active

61. FRAGRANCE

- (a) Taste (b) Aroma (c) Sight (d) Touch

Directions (Q. Nos. 62-64) *In these questions, four alternatives are given for the idiom / phrase. Choose the alternative which best expresses the meaning of the given idiom / phrase.*

62. Over the moon
(a) To land at moon (b) Very happy
(c) Lost (d) Beyond expectations
63. White elephant
(a) Rare thing (b) Useful thing
(c) Costly possession (d) Proud possession
64. Her mother saw through the excuse she gave.
(a) revealed (b) detected
(c) viewed (d) hacked

Directions (Q. Nos. 65-69) *In the questions below the sentences have been given in Active / Passive voice. From the given alternatives, choose the one which best expresses the given sentence in Passive / Active voice.*

65. The invigilator was reading out the instructions.
(a) The instructions were read by the invigilator.
(b) The instructions were being read out by the invigilator.
(c) The instructions had been read out by the invigilator.
(d) The instructions had been read by the invigilator.
66. A child could not have done this mischief.
(a) This mischief could not be done by a child.
(b) This mischief could not been done by a child.
(c) This mischief could not have been done by a child.
(d) This mischief a child could not have been done.
67. She makes cakes every Sunday.
(a) Every Sunday cakes made by her.
(b) Cakes are made by her every Sunday.
(c) Cakes make her every Sunday.
(d) Cakes were made by her every Sunday.
68. She spoke to the official on duty.
(a) The official on duty was spoken to by her.
(b) The official was spoken to by her on duty.
(c) She was spoken to by the official on duty.
(d) She was the official to be spoken to on duty.

69. The doctor advised the patient not to eat rice.
- The patient was advised by the doctor not to eat rice.
 - The patient was advised by the doctor that he should not eat rice.
 - The patient was being advised by the doctor that he should not eat rice.
 - The patient has been advised not to eat rice by the doctor.

Directions (Q. Nos. 70-76) Which of phrases given below each sentence should replace the phrase printed in bold type to make the sentence grammatically correct? If the sentence is correct as it is, mark (d) No improvement as the answer.

70. Do you know **who he is going to marry**?
- whom he is going to marry
 - who he is married
 - who is he going to marry
 - No improvement
71. Gopi was urgently in need to **get his leg operation**.
- to get his leg operated on
 - for operation on leg
 - for leg to be operated
 - No improvement
72. I suggest that she **study** engineering.
- studies
 - studied
 - will study
 - No improvement
73. He prefers coffee **to** tea.
- than
 - over
 - for
 - No improvement
74. He has a passion **of** music.
- for
 - with
 - in
 - No improvement
75. Our team lost the cricket match although the boys **put in** a very good performance.
- put up
 - put on
 - put off
 - No improvement
76. The world has seen **little** real attempt at population and resource planning.
- few
 - small
 - less
 - No improvement

Directions (Q. Nos. 77-81) In these questions, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct speech.

77. The teacher said to Rahul, "Congratulations! Wish you success in life."
- The teacher congratulated Rahul and said wish you success in life.
 - The teacher wished congratulations and success in life to Rahul.
 - The teacher wished congratulations to Rahul and wished him success in life.
 - The teacher congratulated Rahul and wished him success in life.
78. "Where will you be tomorrow", I said, "in case I have to ring you?"
- I asked where you will be the next day in case I will ring him.
 - I asked where he would be the next day in case I had to ring him.
 - I said to him where he will be in case I have to ring him.
 - I enquired about his whereabouts the next day in case I would have to ring up.
79. Sita said to me, "Can you give me your pen?"
- Sita asked me can I give her my pen.
 - Sita asked me if I can give me your pen.
 - Sita asked me if I could give her my pen.
 - Sita asked me if I could give her my pen.
80. My mother says to me, "You are not hard working."
- My mother says to me that I am not hard working.
 - My mother says to me that I was not hard working.
 - My mother says to me that you are not hard working.
 - My mother says to me that you were not hard working.
81. Sheela said, "Will you help me?"
- Sheela asked me I would help her.
 - Sheela said to me would I help her.
 - Sheela asked me whether I would help her.
 - Sheela asked me whether I will help her.

Directions (Q. Nos. 82-84) Find out the correct degree in the given options.

82. In India May is hotter than June.

- (a) Comparative degree
(b) Positive degree
(c) Superlative degree
(d) None of them

83. Which is the most precious of all metals?

- (a) Positive degree
(b) Comparative degree
(c) Superlative degree
(d) None of them

84. Martin speaks English well.

- (a) Superlative degree (b) Positive degree
(c) Comparative degree (d) None of them

Directions (Q. Nos. 85-87) Which figure of speech is used in the following sentence?

85. Variety is the spice of life.

- (a) Simile (b) Personification
(c) Metaphor (d) Apostrophe

86. Death lays this icy hands on kings.

- (a) Epigram (b) Apostrophe
(c) Personification (d) Hyperbole

87. Life is as tedious as twice-told tale.

- (a) Simile (b) Metaphor
(c) Personification (d) Apostrophe

Directions (Q. Nos. 88 and 89) Four words are given in each question, out of which one word is wrongly spelt. Find the wrongly spelt word.

88. (a) Variety (b) Anxiety
(c) Gaitey (d) Society

89. (a) Receive (b) Conceive
(c) Perceive (d) Decieve

Directions (Q. Nos. 90-94) Sentences are given with blanks to be filled in with an appropriate word (s). Four alternatives are suggested for each question. Choose the correct alternative out of the four alternatives.

90. Let me give you

- (a) an advise (b) any advice
(c) some advice (d) some advises

91. I have known him a long time.

- (a) since (b) for
(c) before (d) from

92. My friend's father died cancer.

- (a) by (b) of
(c) from (d) with

93. I am not angry you, Paul.

- (a) at (b) on
(c) with (d) against

94. Australian and European are there among the tourists.

- (a) An, an (b) The, the
(c) An, a (d) A, an

Directions (Q. Nos. 95-97) Out of the four alternatives, choose the one which can be substituted for the given words / sentences.

95. Completing a period of hundred years.

- (a) Centennial (b) Centurion
(c) Centaury (d) Centenarian

96. Animals that can live on land and water.

- (a) Terrestrial (b) Aquatic
(c) Amphibians (d) Parasitic

97. A game in which no one wins.

- (a) Draw (b) Obsolete
(c) Legal (d) Illegal

98. Mark the word which is different in meaning in the group?

- (a) Bold (b) Daring
(c) Fearful (d) Adventurous

99. Mark the correct meaning of the word. Granary

- (a) A place for bees
(b) A place for housing aeroplanes
(c) A place for grains
(d) A place for luggage at railway station

100. Choose the correct option from the following.

'Damp Squib' means

- (a) Rainy weather
(b) A disappointing result
(c) A skirt in a laundry
(d) None of the above

Paper II

Section I : Reasoning and Teaching Aptitude

Directions (Q. Nos. 1-3) *Select the related letter / word / number from the given alternatives.*

1. SRPQ : ONLM :: KJHI
(a) GEDF (b) GFED (c) GFDC (d) GFDE
2. 11 : 121 : 110 :: 15 : 225 : 210 :: ?
(a) 9 : 81 : 70 (b) 18 : 324 : 306
(c) 17 : 288 : 272 (d) 16 : 255 : 239
3. Dream : Reality :: Rational : ?
(a) Untruth (b) Logical
(c) Sensible (d) Correctness

Directions (Q. Nos. 4 and 5) *In the following questions, each question has a number series, out of which one number in the series is not in order. You have to identify that number.*

4. 2, 6, 18, 32, 50, 72, 98
(a) 6 (b) 18 (c) 32 (d) 50
5. 541, 514, 312, 743, 945, 816
(a) 312 (b) 945 (c) 816 (d) 541

Directions (Q. Nos. 6-7) *Select the one, which is different from the other three responses.*

6. (a) Sports : Ground (b) Cinema : Screen
(c) Drama : Stage (d) Rubber : Erase
7. (a) 32-41 (b) 62-44 (c) 46-28 (d) 33-56
8. M is the son of P. Q is the grand-daughter of O, who is the husband of P. How is M related to O?
(a) Son (b) Daughter
(c) Mother (d) Father
9. In a row of boys, Amar is 7th from the left and Vivek is 12th from the right. If they interchange their positions, Amar becomes 22nd from the left. How many boys are there in the row?
(a) 19 (b) 31
(c) 33 (d) 34
10. From the given alternatives select the word which cannot be formed by using the letters of the given word.
IMPASSIONABLE
(a) IMPASSABLE (b) IMPOSSIBLE
(c) IMPASSIVE (d) IMPASSION

11. In this question, which one of the given responses would be a meaningful order of the following words.

1. Act
 2. Listen
 3. Analyse
 4. Observe
 5. Judge
- (a) 3, 1, 4, 5, 2 (b) 4, 2, 3, 5, 1
(c) 5, 4, 1, 3, 2 (d) 1, 5, 4, 2, 3

12. Find the missing number from the given responses.

1	2	3
4	5	6
7	8	9
27	38	?

- (a) 52 (b) 51 (c) 50 (d) 49

13. If $3 * 5 * 6 = 92536$ and $2 * 4 * 9 = 41681$, then $7 * 8 * 10$ is equal to

- (a) 6410049 (b) 813625 (c) 98164 (d) 4964100

14. If white is called 'blue', blue is called 'red', red is called 'yellow', yellow is called 'green', green is called 'black', black is called 'violet' and violet is called 'orange', then what would be the colour of human blood?

- (a) Red (b) Green (c) Yellow (d) Violet

15. In a certain code language, BAT is written YZG. How will SICK be written in that same code?

- (a) HRYV (b) HRZP (c) HRXP (d) RHPX

16. Ajay went 15 km to the West from his house, then turned left and walked 20 km. He, then turned East and walked 25 km and finally turning left he covered 20 km. How far is he now from his house?

- (a) 15 km (b) 20 km (c) 25 km (d) 10 km

17. If in a certain code, 'DAUGHTER' is written as 'TERDAUGH', then how will 'APTITUDE' be written in that code?

- (a) DEUAPTIT (b) UDEAPTIT
(c) DUEAPTIT (d) DAUEPTIT

18. If in a certain code language 'PICK' is written as 'OQHJBDJL', then how will 'FLAT' be written in that language?

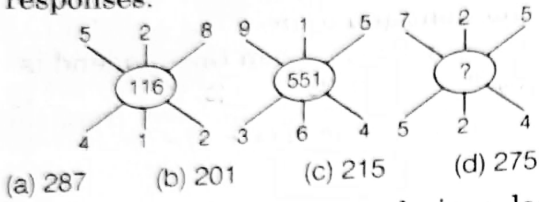
- (a) EGKMZBSU (b) EGKMZBUS
(c) EGKMBZSU (d) EKGMZBSU

Directions (Q.Nos. 19-21) Choose the correct alternative from the given one that will complete the series.

19. 2, 8, 18, 32, 50, ?
 (a) 64 (b) 72 (c) 70 (d) 68

20. 5, 11, 23, 47, 95, ?
 (a) 190 (b) 161 (c) 169 (d) 191

21. Find the missing term from the given responses.



(a) 287 (b) 201 (c) 215 (d) 275

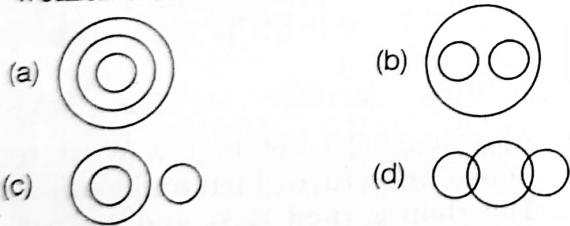
22. Arrange the following words in a logical sequence.

- 1. Country
 - 2. Furniture
 - 3. Forest
 - 4. Wood
 - 5. Trees
- (a) 1, 3, 5, 4, 2 (b) 1, 4, 3, 2, 5
 (c) 2, 4, 3, 1, 5 (d) 5, 2, 3, 1, 4

23. Pointing towards a boy, Veena said, "He is the son of only son of my grandfather". How is that boy related to Veena?

- (a) Uncle
- (b) Brother
- (c) Cousin
- (d) Data inadequate

24. Which of the following figure represents the correct relationship among lawyers, women and doctors.



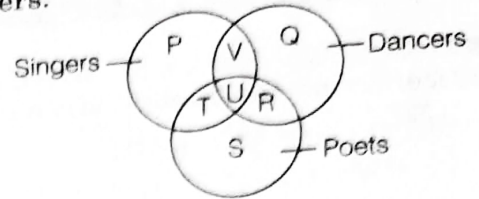
25. Rachit starts walking towards North. After walking 15 m he turns towards South and walks 20 m. He then turns towards East and walks 10 m. Then, again he walks 5 m towards North. How far is he from his starting point and in which direction?

- (a) 10 m, West
- (b) 5 m, East
- (c) 5 m, North
- (d) 10 m, East

26. Five friends P, Q, R, S and T are sitting in a row facing North. Here, S is between T and Q and Q is to the immediate left of R. P is to the immediate left of T. Who is in the middle?

- (a) S
- (b) T
- (c) Q
- (d) R

27. Study the following diagram and identify the region which represents the students who are both poets and singers but not dancers.



- (a) P + T + S
- (b) T
- (c) T + U + R + S
- (d) T + U + S + P

28. If $5 \times 3 \times 9 = 395$, $9 \times 7 \times 5 = 759$, then $7 \times 6 \times 4 = ?$

- (a) 674
- (b) 476
- (c) 647
- (d) 764

29. If $9 * 7 = 32$, $13 * 7 = 120$, $17 * 9 = 208$, then $19 * 11 = ?$

- (a) 64
- (b) 160
- (c) 240
- (d) 210

30. Nitin correctly remembers that Nidhi's birthday is before Friday but after Tuesday. Deepak correctly remembers that Nidhi's birthday is after Wednesday but before Saturday. On which of the following day does Nidhi's birthday definitely fall?

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

31. Rahim started from point X and walked straight 5 km in West, then turned left and walked straight 2 km and again turned left and walked straight 7 km. In which direction is he from the point X?

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

32. If January 1 is a Friday, what is the first day of the month of March in a leap year?

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

33. Barun is taller than Sanjay. Bipul is taller than Barun. Krishna is also not as tall as Bipul, but is taller than Barun. Who is the tallest?

- (a) Barun
- (b) Bipul
- (c) Krishna
- (d) Sanjay

34. Rajan is younger than his father by 20 yr. 5 yr ago his father was 3 times elder than him. Find the present age of his father.

- (a) 25 yr
- (b) 30 yr
- (c) 35 yr
- (d) 36 yr

- 35.** A man said to a woman, "The only son of your brother, is the brother of my wife." How is that woman related to the wife of that man?
 (a) Aunt (b) Sister
 (c) Mother (d) Grandmother
- 36.** If $2463 = 36$ and $5552 = 30$, then, $6732 = ?$
 (a) 32 (b) 36 (c) 34 (d) 39
- 37.** If '+' means '+', 'x' means '-' then $(15 \times 9) + (12 \times 4) \times (4 + 4)$ is equal to
 (a) 96 (b) 6 (c) $\frac{143}{8}$ (d) $\frac{3}{128}$
- 38.** One statement is given, followed by two conclusions I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statement. Indicate your answer.
Statement Medals are awards.
Conclusions
 I. All awards are not medals.
 II. All medals received are called awards.
 (a) Only Conclusion I follows
 (b) Only Conclusion II follows
 (c) Both Conclusions I and II follow
 (d) Neither Conclusion I nor II follows
- 39.** If 'MACHINE' is coded as 19-7-9-14-15-20-11, then how will 'DANGER' be coded in the that code?
 (a) 11-7-20-16-11-24
 (b) 13-7-20-9-11-25
 (c) 10-7-20-13-11-24
 (d) 13-7-20-10-11-25
- 40.** If in a certain code language 'TRIVENDRUM' is written as 'VTKXGPFTWO', then how will 'ERNAKULAM' be written in that language?
 (a) GTPCMWNOC (b) GTPCMWNCO
 (c) GTPCMNWCO (d) GTPMCWNCO
- 41.** In the given number series, how many odd numbers are there which are immediately preceded by an even number and immediately followed by an odd number?
 5 1 4 7 3 9 8 5 7 2 6 3 1 5 8 6 3 8 5 2 2 4 3 4 9 6
 (a) 1 (b) 2
 (c) 3 (d) 4
- 42.** If it is possible to make a meaningful word with the 4th, the 6th, the 9th and the 11th letters of the word 'QUALIFICATION', then which of the following will be the 3rd letter of that word? If more than one such word can be formed give 'M' as the answer and if no such word can be formed give 'N' as the answer.
 (a) M (b) I (c) F (d) N
- 43.** In a division sum, the divisor is 3 times the quotient and 6 times the remainder. If the remainder is 2, then the dividend is
 (a) 36 (b) 28 (c) 50 (d) 48
- 44.** Find the value of $(x + y) - (x - y)$
 (a) $2x$ (b) $2y$ (c) $x + y$ (d) $x - y$
- 45.** If 120 is 20% of a number, than 120% of that number will be
 (a) 20 (b) 120 (c) 360 (d) 720
- 46.** The average age of A and B is 20 yr. If A is to be replaced by C, the average would be 19 yr. The average age of C and A is 21 yr. The ages of A, B and C in order (in years) are
 (a) 22, 18, 20 (b) 22, 20, 18
 (c) 18, 22, 20 (d) 18, 20, 22
- 47.** A and B can together finish a work in 30 days. They worked together for 20 days and then B left. After another 20 days, A finished the remaining work. The number of days in which B alone can finish the work is
 (a) 54 (b) 60
 (c) 50 (d) 48
- 48.** Child centred education refers to
 (a) encourage the experience and learning of a child
 (b) communicate the child what to do by the teacher
 (c) encourage the child to adopt the prescribed notice
 (d) teacher centric class
- 49.** In inclusive education which one of the following is least important trait?
 (a) Sensitive regarding students
 (b) Attachment and patience for students
 (c) Knowledge of student's incompetence
 (d) Socio-economic level of teacher
- 50.** In the process of child learning, parent should play a role of
 (a) negative (b) Cooking forward
 (c) sympathy (d) neutral

Section II : Science Group

51. The sum of a numbers and its reciprocal is $\frac{10}{3}$, then the numbers are
 (a) $3, \frac{1}{3}$ (b) $3, -\frac{1}{3}$ (c) $-3, \frac{1}{3}$ (d) $-3, -\frac{1}{3}$
52. If $a + b + c = 9$ and $ab + bc + ca = 40$, then find the value of $a^2 + b^2 + c^2$.
 (a) 81 (b) 1
 (c) 18 (d) 79
53. What is the HCF of $8(x^5 - x^3 + x)$ and $28(x^6 + 1)$?
 (a) $4(x^4 - x^2 + 1)$ (b) $x^3 - x + 4x^2$
 (c) $x^3 - x + 3x^2$ (d) None of these
54. If α and β are the roots of the equation $x^2 - 11x + 24 = 0$, find the equation having the roots $\alpha + 2$ and $\beta + 2$.
 (a) $x^2 + 15x + 24 = 0$ (b) $x^2 - 15x + 24 = 0$
 (c) $x^2 - 15x + 50 = 0$ (d) $x^2 + 15x - 60 = 0$
55. There are 15 marbles in a box in such away that 2 marbles are green, 4 marbles are blue, 6 marbles are red and 3 marbles are black. If four marbles are picked at random, what is the probability that one is green, two are blue and one is red?
 (a) $\frac{24}{455}$ (b) $\frac{13}{35}$ (c) $\frac{11}{15}$ (d) $\frac{7}{91}$
56. The value of $(\tan 1^\circ \tan 2^\circ \tan 3^\circ \dots \tan 89^\circ)$ is
 (a) undefined (b) 0
 (c) 1 (d) 89
57. On a 20% discount sale, an article costs 596. What was the original price of the article?
 (a) ₹ 720 (b) ₹ 735
 (c) ₹ 745 (d) ₹ 775
58. Two circles of same radius 5 cm, intersect each other at A and B. If $AB = 8$ cm, then the distance between the centres is
 (a) 10 cm (b) 4 cm
 (c) 6 cm (d) 8 cm
59. If the speed of a swimmer in still water is 9 km/h. Find the downstream speed of the swimmer, when the river is flowing with the speed of 6 km/h.
 (a) 15 km/h (b) 18 km/h (c) 3 km/h (d) 12 km/h
60. A maximum length of a pencil that can be kept in a rectangular box of dimensions 8 cm \times 6 cm \times 2 cm, is
 (a) $2\sqrt{13}$ cm (b) $2\sqrt{14}$ cm
 (c) $2\sqrt{26}$ cm (d) $10\sqrt{2}$ cm
61. The train running at the speed of 72 km/h goes past a pole in 15 s. What is the length of the train?
 (a) 150 m (b) 200 m
 (c) 300 m (d) 350 m
62. Simplified form of $\frac{x^2 - 5x + 6}{x^2 - 7x + 10} \div \frac{x^2 - 10x + 21}{x^2 - 9x + 20}$
 (a) $\frac{x-4}{x-7}$ (b) $\frac{x-5}{x-3}$ (c) $\frac{x-5}{x-1}$ (d) $\frac{x-4}{x-3}$
63. If the sum of first n terms of an AP is given by $S_n = 6n + 7n^2$, then find the n th term of the AP. Also, find 10th term of the AP.
 (a) 138 (b) 139 (c) 140 (d) 141
64. How many numbers of two digits are divisible by 7?
 (a) 11 (b) 12 (c) 13 (d) 14
65. A and B can do a piece of work in 6 and 12 days, respectively. They (both) will complete the work in how many days?
 (a) 9 (b) 18
 (c) 6 (d) 4
66. The value of 20% of 225 + 64 % of 250 is
 (a) 205 (b) 405
 (c) 210 (d) 250
67. If $x = 1 + \sqrt{2}$, then the value of $(x - \frac{1}{x})^3$ is
 (a) 7 (b) 6
 (c) 8 (d) 10
68. From the circumcentre I of the ΔABC , perpendicular ID is drawn on BC. If $\angle BAC = 60^\circ$, then the value of $\angle BID$ is
 (a) 75° (b) 60°
 (c) 45° (d) 80°
69. The expression $\frac{\tan 57^\circ + \cot 37^\circ}{\tan 33^\circ + \cot 53^\circ}$ is equal to
 (a) $\tan 33^\circ \cot 57^\circ$ (b) $\tan 57^\circ \cot 37^\circ$
 (c) $\tan 33^\circ \cot 53^\circ$ (d) $\tan 53^\circ \cot 37^\circ$

70. If $\alpha + \beta = 90^\circ$ and $\alpha : \beta = 2 : 1$, then the value of $\sin \alpha : \sin \beta$ is
 (a) $\sqrt{3} : 1$ (b) $2 : 1$
 (c) $1 : 1$ (d) $\sqrt{2} : 1$
71. What will be the simple interest on ₹ 4000 at $12\frac{1}{2}\%$ per annum for the period from 4th February, 2005 to 18th April, 2005?
 (a) ₹ 215 (b) ₹ 120
 (c) ₹ 200 (d) ₹ 100
72. The bisectors BI and CI of $\angle B$ and $\angle C$ of a $\triangle ABC$ meet in I . What is $\angle BIC$ equal to?
 (a) $90^\circ - \frac{A}{4}$ (b) $90^\circ + \frac{A}{4}$
 (c) $90^\circ - \frac{A}{2}$ (d) $90^\circ + \frac{A}{2}$
73. A chord AB of a circle C_1 of radius $(\sqrt{3} + 1)$ cm touches a circle C_2 of radius $(\sqrt{3} - 1)$ cm, then the length of AB is
 (a) $8\sqrt{3}$ cm (b) $4\sqrt{3}$ cm
 (c) $4\sqrt{3}$ cm (d) $2\sqrt{3}$ cm
74. The volume of a right circular cone is 100π cm^3 and its height is 12 cm. Find its slant height.
 (a) 13 cm (b) 16 cm
 (c) 9 cm (d) 26 cm
75. If $a = \frac{1}{7 - 4\sqrt{3}}$ and $b = \frac{1}{7 + 4\sqrt{3}}$, then value of $a + b$ is
 (a) 49 (b) 48
 (c) 14 (d) 16
76. In an electrical circuit, three incandescent bulbs A , B and C of rating 40 W, 60 W and 100 W respectively are connected in parallel to an electric source. Which of the following is likely to happen regarding their brightness?
 (a) Brightness of all the bulbs will be the same
 (b) Brightness of bulb A will be the maximum
 (c) Brightness of bulb B will be more than that of A
 (d) Brightness of bulb C will be less than that of B
77. Magnification produced by a rear view mirror fitted in vehicles
 (a) is less than one
 (b) is more than one
 (c) is equal to one
 (d) can be more than or less than one depending upon the position of the object in front of it
78. The strength of magnetic field inside a long current carrying straight solenoid is
 (a) more at the ends than at the centre
 (b) minimum in the middle
 (c) same at all points
 (d) found to increase from one end to the other
79. In a hydroelectric power plant more electrical power can be generated, if water falls from a great height, then
 (a) its temperature increases
 (b) larger amount of potential energy is converted into kinetic energy
 (c) the electricity content of water increases with height
 (d) more water molecules dissociate into ions
80. The resistivity does not change, if
 (a) the material is changed
 (b) the temperature is changed
 (c) the shape of the resistor is changed
 (d) both material and temperature are changed
81. A full length image of a distant tall building can definitely be seen by using
 (a) a concave mirror
 (b) a convex mirror
 (c) a plane mirror
 (d) both concave as well as plane mirror
82. The most important safety method used for protecting home appliances from short-circuiting or overloading is
 (a) earthing (b) use of fuse
 (c) use of stabilizers (d) use of electric meter
83. The clear sky appears blue because
 (a) blue light gets absorbed in the atmosphere
 (b) ultraviolet radiations are absorbed in the atmosphere
 (c) violet and blue lights get scattered more than lights of all other colours by the atmosphere
 (d) light of all other colours is scattered more than the violet and blue colour lights by the atmosphere
84. Twinkling of stars is due to atmospheric
 (a) dispersion of light by water droplets
 (b) refraction of light by different layers of varying refractive indices
 (c) scattering of light by dust particles
 (d) internal reflection of light by clouds
85. The magnetic moment of diamagnetic atom is
 (a) more than one (b) one
 (c) between one and zero (d) zero

- 86.** Gammoxene, DDT and bleaching powder are important compounds of
(a) chlorine (b) nitrogen
(c) sulphur (d) phosphorus
- 87.** Heating rubber with sulphur is known as
(a) galvanisation (b) bessemerisation
(c) Vulcanisation (d) Sulphonation
- 88.** Find the odd one out
(a) Neutral salt : NaCl
(b) Acid salt : $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
(c) Basic salt : $\text{CuCO}_3 \cdot \text{Cu}(\text{OH})_2$
(d) Nonhydrated salt : KNO_3
- 89.** Which of the following is an alloy of cobalt?
(a) Vitallium
(b) Brass
(c) Invar
(d) Solder
- 90.** The rusting iron is
(a) Liquid metal corrosion
(b) Oxidation corrosion
(c) Corrosion by other gases
(d) wet corrosion
- 91.** Blue vitriol is used to test the presence of water. Blue vitriol is
(a) calcium oxide
(b) sulphuric acid
(c) sodium oxide
(d) copper sulphate
- 92.** Which of the following oxide(s) of iron would be obtained on prolonged reaction of iron with steam?
(a) Fe_3O_4 (b) Fe_2O_3
(c) Both (a) and (b) (d) FeO
- 93.** Which of the following is not a physical change?
(a) Boiling of water to give water vapour
(b) Melting of ice to give water
(c) Dissolution of salt in water
(d) Combustion of liquefied petroleum gas (LPG)
- 94.** Which of the following compounds show maximum hydrogen bonding?
(a) HF
(b) H_2O
(c) NH_3
(d) CH_3OH
- 95.** 'Herbivores' in a food chain are
(a) primary producers
(b) primary consumers
(c) secondary consumers
(d) decomposers
- 96.** Which of the following products are formed during light reaction of photosynthesis?
(a) ATP and sugar
(b) Hydrogen, O_2 and sugar
(c) ATP, hydrogen donor and O_2
(d) ATP, hydrogen and O_2 donor
- 97.** The location of nucleus in a typical plant cell is
(a) central
(b) peripheral
(c) basal
(d) anywhere
- 98.** Which one of the following set constitutes female part of a flower?
(a) Stigma, ovary and anther
(b) Stigma, ovary and style
(c) Anther, ovary and style
(d) Filament, petals and calyx
- 99.** The organ system which get affected by AIDS disease is
(a) digestive system
(b) respiratory system
(c) central nervous system
(d) immune system
- 100.** Which of the following pair is incorrect?
(a) Thiamine-Beri beri
(b) Vitamin-K-Sterility
(c) Niacin-Pellagra
(d) Vitamin-D-rickets

Answers

Paper I

1	(c)	2	(b)	3	(a)	4	(b)	5	(c)	6	(a)	7	(b)	8	(a)	9	(a)	10	(b)
11	(d)	12	(c)	13	(c)	14	(c)	15	(c)	16	(d)	17	(c)	18	(b)	19	(a)	20	(c)
21	(d)	22	(a)	23	(c)	24	(a)	25	(d)	26	(c)	27	(b)	28	(c)	29	(a)	30	(c)
31	(d)	32	(a)	33	(a)	34	(d)	35	(b)	36	(a)	37	(c)	38	(b)	39	(b)	40	(c)
41	(c)	42	(a)	43	(c)	44	(b)	45	(a)	46	(a)	47	(b)	48	(c)	49	(c)	50	(c)
51	(d)	52	(b)	53	(a)	54	(b)	55	(d)	56	(d)	57	(b)	58	(c)	59	(b)	60	(c)
61	(b)	62	(b)	63	(c)	64	(b)	65	(b)	66	(c)	67	(b)	68	(a)	69	(a)	70	(a)
71	(a)	72	(a)	73	(d)	74	(a)	75	(a)	76	(d)	77	(d)	78	(b)	79	(c)	80	(a)
81	(c)	82	(a)	83	(c)	84	(b)	85	(c)	86	(c)	87	(a)	88	(c)	89	(d)	90	(c)
91	(b)	92	(b)	93	(c)	94	(c)	95	(d)	96	(c)	97	(a)	98	(c)	99	(c)	100	(b)

Paper II

1	(d)	2	(b)	3	(a)	4	(a)	5	(c)	6	(d)	7	(d)	8	(a)	9	(c)	10	(c)
11	(b)	12	(b)	13	(d)	14	(c)	15	(c)	16	(d)	17	(b)	18	(a)	19	(b)	20	(d)
21	(b)	22	(a)	23	(b)	24	(d)	25	(d)	26	(a)	27	(b)	28	(c)	29	(c)	30	(d)
31	(c)	32	(a)	33	(b)	34	(c)	35	(a)	36	(a)	37	(b)	38	(b)	39	(c)	40	(b)
41	(c)	42	(b)	43	(c)	44	(b)	45	(d)	46	(a)	47	(b)	48	(a)	49	(d)	50	(b)
51	(a)	52	(b)	53	(a)	54	(c)	55	(a)	56	(c)	57	(c)	58	(c)	59	(a)	60	(c)
61	(c)	62	(a)	63	(b)	64	(c)	65	(d)	66	(a)	67	(c)	68	(b)	69	(b)	70	(a)
71	(d)	72	(d)	73	(b)	74	(a)	75	(c)	76	(c)	77	(a)	78	(c)	79	(b)	80	(c)
81	(b)	82	(b)	83	(c)	84	(b)	85	(d)	86	(a)	87	(c)	88	(b)	89	(a)	90	(b)
91	(d)	92	(a)	93	(d)	94	(a)	95	(b)	96	(c)	97	(b)	98	(b)	99	(d)	100	(b)