

ORDERING OF SENTENCES

1. S_1 : I first came to Poland in the autumn of 1986.
 S_2 : Was I still interested ?
 P : I had been keeping an eye on the notice board of the English Department for a prospective job.
 Q : It was my last month as a student at the University of York.
 R : It was at the University of Lo'dz, which I had never heard of.
 S : One day I spotted a little note concerning a lectureship.
 (a) $S - R - Q - P$ (b) $Q - P - S - R$
 (c) $S - P - Q - R$ (d) $Q - R - S - P$
2. S_1 : Avintech is an export oriented unit and an established business group which is seeking expansion.
 S_2 : Dynamic and hard-working graduates alone can join.
 P : It is one of the largest Medical Transcription companies in Western India.
 Q : It is in the city of Ahmedabad itself.
 R : It offers the hottest job opportunities of the 21st century.
 S : It has entered into a technical collaboration with Heartland Information Services, U.S.A.
 (a) $S - Q - R - P$ (b) $R - P - S - Q$
 (c) $S - P - Q - R$ (d) $R - Q - S - P$
3. S_1 : It is perhaps coincidental that the final Booker Prize of the twentieth century should go to a South African writer.
 S_2 : The formal structures of a modern democracy have been put in place.
 P : In political terms, there has been, if not a revolution, but a partial overturning of the old order.
 Q : Apartheid, the dominant reality of South Africa's twentieth century, has been dismantled.
 R : It is not so much that South Africa is poised to enter the new millennium weighed down by its grim oppressed past.
 S : But as you read "Disgrace", J.M. Coetzee's eighth novel, you become aware of a certain bleak appropriateness.
 (a) $S - P - R - Q$ (b) $Q - R - P - S$
 (c) $S - R - P - Q$ (d) $Q - P - R - S$
4. S_1 : For the first time in the last 30 years, the retail prices of essential goods have shown a declining trend.
 S_2 : But they seem to have made an about turn.
 P : The retail prices of essential articles have always been going up.
 Q : This is evident from a comparison between prices in December 1998 and December 1999.
 R : This indicates the inability of inflationary tendencies to move upwards in 1999.
 S : This is a unique phenomenon.
 (a) $P - S - Q - R$ (b) $Q - R - P - S$
 (c) $P - R - Q - S$ (d) $Q - S - P - R$
5. S_1 : There were two poignant farewell last week to two great sports personalities.
 S_2 : This showed how a great player should be recognized by sports authorities.
 P : The great West Indian fast bowler, Malcolm Marshall passed away prematurely.
 Q : This was Steffi Graf's farewell in New York.
 R : The other was a player who dominated her sport like no one else had done before.
 S : This is an age when most sportspersons enjoy the rewards and recognition of their efforts over the years.
 (a) $Q - S - R - P$ (b) $P - R - S - Q$
 (c) $Q - R - S - P$ (d) $P - S - R - Q$
6. S_1 : The north-east of the Caliph's dominions comprised a number of Turkish tribes.
 S_2 : In 1071, the Byzantine army was utterly smashed in the Battle of Melasgird.
 P : In the tenth century, these Turks grew strong and vigorous.
 Q : They had been converted to Islam but they held their faith much more fiercely than the Arabs and the Persians to the south.
 R : They conquered Armenia and struck at the remnants of the Byzantine power.
 S : In the next century a group of Turkish tribes came down to Mesopotamia and made the Caliph their nominal ruler.
 (a) $Q - P - S - R$ (b) $P - Q - S - R$
 (c) $Q - P - R - S$ (d) $P - Q - R - S$
7. S_1 : When there is a disaster, its impact depends on how close you are to the people and the place where it happened.
 S_2 : If I were to make one request to God it would be that I shouldn't die trapped under water.
 P : The train accident that happened in Quilon some days ago is the kind of nightmare I have often imagined.
 Q : It gave me restless sleep for several nights afterwards.
 R : Though I lived in Delhi, I was quite familiar to Quilon.
 S : It is where I spent the first seventeen years of my life.
 (a) $S - R - P - Q$ (b) $R - S - Q - P$
 (c) $R - S - P - Q$ (d) $S - R - Q - P$
8. S_1 : All attempts to discover oxygen in the atmosphere of Mars have been unsuccessful.
 S_2 : The present scanty supply of oxygen does not seem to be adequate to maintain life on Mars.
 P : The red colour is suggestive of rocks that have been completely oxidized.
 Q : It appears probable that Mars may be a planet where weathering of rocks followed by their oxidation has resulted in almost complete depletion of oxygen from the atmosphere.
 R : Indirect evidence of its existence is provided by the red colour of Mars.

- S : It is believed that the amount of oxygen is not more than one-thousandth part of the amount in the Earth's atmosphere.
- (a) P - R - S - Q (b) S - R - P - Q
(c) S - Q - R - P (d) R - S - P - Q
9. S₁ : The cultural programme consisted of different items to suit different tastes.
S₂ : Finally the National Anthem was sung.
P : After the prayer, there was a dance item.
Q : It began with an invocation.
R : When the skit ended there was a group dance.
S : The dance was followed by a skit.
(a) Q - R - S - P (b) S - P - Q - R
(c) Q - P - S - R (d) S - R - Q - P
10. S₁ : Tourism is an area in which Lakshadweep has a bright future.
S₂ : A case has been made out for airstrips in Kavaratti and Minicoy.
P : But one deficiency is that accommodation in Lakshadweep is limited and the Administration Office in Kochi has to be informed in advance for booking accommodation.
Q : Travel between the islands becomes the next hurdle, though private boats ply.
R : The Administration itself runs two vessels from Kochi to Bangaram, making about 10 trips during 'fair season' after the Monsoon.
S : Attempts are underway to develop Bangaram into a world class tourist centre.
(a) S - Q - P - R (b) P - R - S - Q
(c) S - R - P - Q (d) P - Q - S - R

ANTONYMS

11. VOLITION
(a) Pretext (b) Unwillingness
(c) Compliance (d) Interlude
12. COPIOUS
(a) Imitable (b) Unprecedented
(c) Shaky (d) Shortage
13. ARDUOUS
(a) Facile (b) Influential
(c) Deplorable (d) Tenuous
14. DEFERENTIAL
(a) Discount (b) Disrespectful
(c) Preconception (d) Acute
15. FELICITOUS
(a) Unfriendly (b) Uneasy
(c) Unheard of (d) Inappropriate
16. ABSOLVE
(a) To remember someone fondly
(b) To imitate someone
(c) To pretend
(d) To declare someone guilty
17. PAROCHIAL
(a) Open-minded (b) Temporary
(c) Irrelevant (d) Disinclination
18. PLEBEIAN
(a) Dispassionate (b) Tolerant
(c) Elite (d) Pliable
19. FRUGAL
(a) Prodigal (b) Arrogant
(c) Dominating (d) Chronic
20. PREPOSSESSING
(a) Nostalgic (b) Egocentric
(c) Deprived (d) Unattractive
21. IMPERIOUSNESS
(a) Politeness (b) Magnification
(c) Affirmation (d) Fruition

22. EGRESS
(a) Inlet (b) Lack of aggression
(c) Understandable (d) Calm
23. COGENT
(a) Pure (b) Uncommon
(c) Unconvincing (d) Viable
24. RANKLE
(a) To feel free (b) To feel humiliated
(c) To feel delighted (d) To gain independence
25. ANARCHIC
(a) Dependent (b) Covert (c) Lawful (d) Abrupt
26. SPORADIC
(a) Intentional (b) Frightful
(c) Continuous (d) Typical
27. ASCETIC
(a) Congenial (b) Extravagant
(c) Conflicting (d) Ugly
28. INIMICAL
(a) Hypothetical (b) Friendly
(c) Permanent (d) Articulate
29. MENDACIOUS
(a) Truthful (b) Fully explained
(c) Feeble (d) Uncomplicated
30. STARK
(a) Safe (b) Nearby (c) Partial (d) Elegant

COMPREHENSION

Passage I

Finally, there arises the question as to our leadership potential. Although the entire younger generation by the very definition is a potential storehouse of leadership, I feel that our universities provide the richest reservoir from which the future leaders of this country will be forthcoming. I have had occasion to travel fairly extensively and to visit a number of university centres in the country. It is deeply encouraging to see that despite the economic and other difficulties which these young men and women have to face they are full of energy and idealism. The real question is whether we have the ability and imagination to tap this reservoir, to fan the sparks of youthful idealism into bright flames that would illumine the future of India — the India of our dreams for the building of which countless generations have struggled and sacrificed; an India socially emancipated, economically prosperous, politically integrated, militarily strong and spiritually dynamic.

31. Which one of the following is correct?
The writer believes that India is
(a) socially emancipated (b) economically prosperous
(c) spiritually dynamic (d) None of the above
32. What is the author's tone in the passage?
(a) Optimistic (b) Autocratic
(c) Pessimistic (d) Partisan
33. Where will the future leaders of the country mainly come from?
(a) The families of present political leaders
(b) The community of social scientists
(c) The universities
(d) The entire younger generation
34. Which one of the following is correct?
For realizing the India of our dreams,
(a) we should have the imagination to exploit our budding leadership potential
(b) we should admire the sacrifices made by several generations
(c) we should bring about more technological advancements
(d) we should provide better facilities for sports

35. Which one of the following is correct?
What is deeply encouraging about educated young men and women of India is that
- they come from the richest reservoirs of potential leaders
 - they are full of energy and idealism because of quality education
 - they are full of youthful idealism and imagination
 - they are full of energy and idealism in spite of economic and other difficulties they face as students

Passage II

Last year when I suffered a stroke I had to be hospitalized. I was put in a general ward for there was no room in the intensive coronary care unit. Not far from my bed was a patient in obvious indigent circumstances and on hospital diet. For breakfast he used to get two eggs, besides other things. The man was regularly visited by a twelve year old boy, perhaps his son, dressed in worn-out clothes.

The man always kept one egg for that boy when he arrived soon after the doctors had done their rounds. One day there was a shortfall in the supply of eggs to the hospitals and our man got only one egg. He looked at it for a long, long time, turning it over in his hands and then put it away. He thought the boy's need was greater than his perhaps.

36. What does 'indigent circumstances', as used in the passage mean ?
- Miserable condition
 - Miserly personality
 - Very poor condition
 - Rich background
37. Why was the author hospitalized ?
- He wanted a medical check-up
 - He wished to experience hospital life
 - He wanted to interact with other patients from a sociological angle
 - He fell seriously ill
38. Why did the sick man look at the egg for a long time ?
- He thought the egg was bad
 - He could not decide whether he should eat it or keep it for the boy
 - He wished to really enjoy eating it
 - He was annoyed at being given only one egg
39. What does the above passage focus on?
- Poverty of the man
 - Nature of the dirty hospital
 - Paternal affection of the man
 - Poor condition of the boy

Passage III

As epics go, the Ramayana has all the gripping ingredients that make a saga universal and everlasting. With love, loyalty, seduction and greed in their varying shades, with its colourful characters — benign and evil — few stories have seized human imagination through the millennia as the story of Rama, the prince of Ayodhya. In India, of course, the Ramayana continues to evoke reverence, and on occasions, stir up political passions. But such is its fascination that its geographical reach spans south-east Asia, and as we realize now, even Russia. Besides Hinduism, it manifests in Buddhist, Jain and Sikh traditions too.

40. Which two attributes of human nature mainly constitute the Ramayana ?
- Chivalry and cowardice
 - Love and greed
 - Patience and suffering
 - Sex and exploitation
41. What does the term 'saga' used in the passage mean ?
- The social history of a community
 - The biography of a noble man

- Mythology associated with a religion
 - The narrative of a dynasty's heroic exploits
42. Which one of the following is correct?
The story of Rama has indelibly influenced
- a large number of scholars
 - a large number of films
 - a large number of literary works
 - human imagination since ages
43. Which one of the following is correct?
The Ramayana has occasionally generated
- political passions
 - communal riots
 - deep fascination
 - fatalism

Passage IV

My own recollection is that I had not had any high regard for my ability. I used to be astonished whenever I won prizes and scholarships. But, I very assiduously guarded my character. The least little blemish drew tears from my eyes. When I merited, or seemed to the teacher to merit, a rebuke, it was unbearable for me. I remember having once received corporal punishment. I did not so much mind the punishment, as the fact that it was considered my desert. I wept piteously. That was when I was in the first or second standard. There was another such incident during the time when I was in the seventh standard. Dorabji Edulji Gimi was the Headmaster then. He was popular among the boys, though he was a disciplinarian. He was a man of method and a good teacher. He had made gymnastics and cricket compulsory for the boys of the upper standards. I disliked both. I never took part in any exercise, cricket or football, before they were made compulsory. My shyness was one of the reasons for this aloofness, which I now see as wrong. I then had the false notion that gymnastics had nothing to do with education. Today I know that physical training should have as much place in the curriculum as mental training.

44. Why did the author say that he did not have any high regard for his ability ?
- He was a dunce
 - He always used to miss his classes
 - He never did well in studies or sports
 - He was full of humility
45. The author's idea that character is a treasure is revealed in which of the statements ?
- "I won prizes and scholarships"
 - "When I merited, or seemed to the teacher to merit, a rebuke, it was unbearable for me"
 - "I very assiduously guarded my character"
 - "I wept piteously"
46. Why did the author weep piteously ?
- He felt insulted
 - Punishment was considered his due
 - He felt the physical pain
 - He took the punishment to heart
47. Why did the author dislike gymnastics and cricket ?
- They cut into his study time
 - He had to spend money in buying bats, etc.
 - He felt that physical education could cause injury
 - He was shy

Passage V

Psychologists studying race prejudice have many times made an interesting experiment. They seat a few people in a row, show a picture to the first in line, and ask him to whisper a description of it in a few words to the next person who will whisper the information to the third and so on. The picture is of a policeman and a badly dressed,

uncouth Negro. The policeman is holding a knife in his hand; the Negro is unarmed. Almost never is the correct description transmitted to more than two or three individuals in succession. The information transmitted describes that the knife is being held in a threatening manner by the Negro. In other words, the picture is transformed until it fits the pre-existing concept in the mind, which is that an open knife is far more likely to be held by a Negro than by a policeman.

48. The above passage is an attempt to show which one of the following ?
 (a) Psychologists are experimenting with policemen and criminals
 (b) Policemen are holding knives against the Negroes
 (c) People go on whispering about what they have seen
 (d) We alter all new information to suit our preconceived ideas
49. Which one of the following is correct?
 The policeman referred to in the passage
 (a) is trying to stab a badly dressed Negro
 (b) is sitting in front of a row of people and showing a picture
 (c) suffers from racial prejudice
 (d) has an open knife
50. Which one of the following is correct?
 According to the passage, people generally
 (a) like to spread rumours
 (b) like to be shown pictures
 (c) jump to their conclusions whatever the facts may be
 (d) follow the peer group
51. What is meant by 'race prejudice' in the passage ?
 (a) Hatred for an uncouth Negro
 (b) Fear of policeman with an open knife
 (c) Object of study by psychologists
 (d) Whispering campaign against people

Passage VI

Most people lead the lives that circumstances have thrust upon them. But Wilson had boldly taken the course of his life into his own hands. At 35, he had quit his job to lead a pleasant life on an exotic island with just enough money to last for twenty five years. Once, fifteen years after he had been on the island, I happened to meet him and enquired about his financial situation. He said, "It will carry me on till I am sixty". "But one cannot be sure of dying at sixty", I said. "Well" he replied, "It depends on oneself, doesn't it?"

52. Which one of the following is correct?
 According to the author, most people
 (a) do not allow circumstances to affect their lives
 (b) have fatalistic attitude towards life
 (c) do not know how to cope up with their circumstances
 (d) do nothing to change the conditions they live in
53. What was Wilson's boldest decision?
 (a) To quit his job
 (b) To want to lead a pleasant life
 (c) To prefer to live on an island
 (d) To arrange enough money to last for twenty five years
54. What was Wilson's age when the author met him ?
 (a) 35 years (b) 45 years
 (c) 50 years (d) 55 years
55. What does ".....depends on oneself" suggest ? That Wilson, at 60, would
 (a) depend on his own resources
 (b) take the course of his life into his own hands
 (c) take away his own life
 (d) carry on living in the same manner

56. IMPETUS
 (a) Courage (b) Impatience
 (c) Arrogance (d) Driving energy
57. PHILANDERER
 (a) Time waster (b) Spendthrift
 (c) Male flirt (d) Wanderer
58. PALPABLE
 (a) Trembling (b) Weak (c) Obvious (d) Foolish
59. REPAST
 (a) Rest (b) Fond memories
 (c) Peacefulness (d) Meal
60. ABEYANCE
 (a) Temporary suspension (b) Abstinence
 (c) Hatred (d) Memory
61. TENOR
 (a) Kindness (b) Effort (c) Duration (d) Purport
62. GRAVEN
 (a) Carved (b) Coward
 (c) Out-dated (d) Obscure
63. QUIBBLE
 (a) To deny (b) To tremble
 (c) To evade truth (d) To examine
64. PRIVATION
 (a) Dominance (b) Deprivation
 (c) Secrecy (d) Imprisonment
65. GLEAN
 (a) To groom (b) To gather bit by bit
 (c) To discover (d) To polish
66. TACTILE
 (a) Considerate
 (b) Strong
 (c) Sharp
 (d) Pertaining to the organs of touch
67. USURP
 (a) To climb upon
 (b) To yield
 (c) To seize power or position illegally
 (d) To demand unlawfully high interest on a loan
68. ENSCONCE
 (a) To promote (b) To surround
 (c) To settle comfortably (d) To honour
69. CHAUVINISM
 (a) Blind patriotism (b) Defeatism
 (c) Political trickery (d) Obstinacy
70. FLAGRANT
 (a) Scandalous (b) Widely scattered
 (c) Particularly bad (d) Poisonous
71. TRANSGRESS
 (a) To convert
 (b) To insult
 (c) To violate
 (d) To hand over possession to another
72. FACADE
 (a) Front of a building (b) Haughtiness
 (c) Complexity (d) Hypocrisy
73. PALL
 (a) To anger (b) To frighten
 (c) To become boring (d) To darken
74. SPLEEN
 (a) Surface (b) Lustre
 (c) Bad temper (d) Smoothness
75. SWATHE
 (a) To soothe (b) To wrap
 (c) To sweep (d) To wash

ORDERING OF WORDS IN A SENTENCE

76. Parents should
 P : which is making their children adults before their time
 Q : and will have repercussions later in life
 R : availing various beauty treatments at a tender age
 S : take steps to discourage the trend of children
 (a) S - Q - P - R (b) P - R - S - Q
 (c) S - R - P - Q (d) P - Q - S - R
77. Some frustrated
 P : that the bulk of career management advice
 Q : or organization rather than finding a new one altogether
 R : focuses on doing better in your current field
 S : community members have pointed out
 (a) S - P - R - Q (b) P - S - Q - R
 (c) S - P - Q - R (d) P - S - R - Q
78. This is a
 P : but written by someone who had privileged
 Q : and exclusive insights into one of the
 R : personalized memoir partly in diary form
 S : most significant events in modern history
 (a) S - P - Q - R (b) R - Q - P - S
 (c) S - Q - P - R (d) R - P - S - Q
79. Private investments
 P : it is at the mercy of a lumbering decision-making process
 Q : and no matter how nimble the private sector may be
 R : realization that the government is the only buyer
 S : however are taking place with ease.
 (a) R - S - Q - P (b) S - R - Q - P
 (c) R - S - P - Q (d) S - R - P - Q
80. A decade
 P : admits it has achieved only 30 per cent of its planned target
 Q : the Defence Research and Development Organization
 R : after it set an ambitious target of maximizing self-sufficiency
 S : in defence by achieving 70 per cent indigenization
 (a) P - S - Q - R (b) R - Q - S - P
 (c) R - S - Q - P (d) P - Q - S - R
81. Part of
 P : of the power generated is lost as
 Q : corrupt politicians look the other way
 R : the problem is that over a third
 S : while ingenious industrialists steal it from under their noses
 (a) P - R - Q - S (b) R - P - S - Q
 (c) P - R - S - Q (d) R - P - Q - S
82. Why can't
 P : fund and build one of
 Q : in an act of great philanthropy
 R : the leaders of our Silicon Valley come together and
 S : the finest technological museums in the world for our children to see
 (a) R - Q - P - S (b) Q - R - P - S
 (c) R - Q - S - P (d) Q - R - S - P
83. It's that
 P : to tell the government exactly how much they earned in the year
 Q : queue up in the sweltering heat
 R : time of the year again
 S : when taxpayers across the country
 (a) Q - P - R - S (b) R - S - Q - P
 (c) Q - S - R - P (d) R - P - Q - S
84. There's no
 P : without ever fumbling or faltering
 Q : better juggler than a woman
 R : between her work, family and home
 S : who has to strike a perfect balance
 (a) S - Q - P - R (b) Q - S - P - R
 (c) S - Q - R - P (d) Q - S - R - P
85. When we can
 P : judgements and prejudices and come to a place of peace inside
 Q : become more fully aware of our inner battles
 R : we can easily let go of ego
 S : and stop projecting them outside of ourselves
 (a) Q - S - R - P (b) R - P - Q - S
 (c) Q - P - R - S (d) R - S - Q - P
86. The focus
 P : and subsequently expand our trade with the
 Q : outside and develop the co-operation
 R : is to increase agricultural and industrial production
 S : of our economic construction
 (a) R - S - Q - P (b) S - R - P - Q
 (c) R - S - P - Q (d) S - R - Q - P
87. Mobility of capital
 P : not only to seek low paid, informal/wage employees across national boundaries
 Q : and place large number of workers in insecure and irregular employment
 R : but the threat of capital flight can also serve to drive down wages
 S : has given an unprecedented leverage to companies
 (a) Q - P - R - S (b) S - R - P - Q
 (c) Q - R - P - S (d) S - P - R - Q
88. In the post-independence era,
 P : and with the vanishing of land revenue as an important source of revenue for the States
 Q : the IAS too, presented with opportunities in the economic development sector
 R : began to regard tax collection and law and order jobs as not being promising enough
 S : from job satisfaction or career points of view
 (a) Q - P - R - S (b) P - Q - S - R
 (c) Q - P - S - R (d) P - Q - R - S
89. Many of
 P : but plants, and that we do not
 Q : eat meat since that amounts to harming animals
 R : us humans pride ourselves
 S : by declaring that we eat nothing
 (a) R - Q - S - P (b) P - S - Q - R
 (c) R - S - P - Q (d) P - Q - S - R
90. It is difficult
 P : from major news channels without a deep sense
 Q : or experience the images and comments
 R : not just of fear for the future, but of shame and embarrassment
 S : today to pick up a newspaper
 (a) Q - S - P - R (b) S - Q - R - P
 (c) Q - S - R - P (d) S - Q - P - R

SPOTING ERRORS

91. His wife is (a)/ neurotic in switching lights off (b)/ at home to save electricity(c)/ No error.(d)
92. The loss of jobs (a)/ is regarded by some as an necessary evil (b)/ in the fight against inflation (c)/ No error.(d)
93. When things get difficult, (a)/ you just have to (b)/ grit your teeth and preserve (c)/ No error.(d)
94. I never refuse odd jobs (a)/ to complement by income (b)/ —its all grist to the mill (c)/ No error.(d)
95. Our dog may look (a)/ fierce but (b)/ that would't hurt a fly (c)/ No error.(d)

96. The gang unclaimed (a)/ all responsibility (b)/ for the explosion (c)/ No error.(d)
97. The boss had me (a)/ on the carpet over (b)/ my expenses claim (c)/ No error.(d)
98. We were bowled of (a)/ by the news (b)/ of her marriage (c)/ No error.(d)
99. The foreigner quickly (a)/ customed himself to (b)/ this new way of life (c)/ No error.(d)
100. The politician (a)/ clearly had not (b)/ done his homework (c)/ No error.(d)
101. The difficult part (a)/ is learning the new computer codes (b)/ - after that it's all downhill (c)/ No error.(d)
102. She summed up (a)/ the situation in (b)/ a few choice phrases (c)/ No error.(d)
103. Sunlight entered the room (a)/ from a chink (b)/ in the curtains (c)/ No error.(d)
104. A continued belt (a)/ feeds components (b)/ into the machine (c)/ No error.(d)
105. Opinion polls have detected (a)/ a ground swell about (b)/ support for the socialists (c)/ No error.(d)

FILL IN THE BLANKS

106. The earthquake warnings and the fragility of our houses made us certain that a disaster was
 (a) catastrophic (b) imminent
 (c) available (d) distant
107. Mother Teresa was about her achievements and unwilling to discuss them before anyone.
 (a) ignorant (b) unsure
 (c) proud (d) modest
108. His opinion with the general opinion of the experts on this matter.
 (a) asserts (b) assimilates
 (c) concurs (d) approves
109. The law cannot and should not pardon such act of violence.
 (a) a flagrant (b) a cautious
 (c) a lavish (d) a dull
110. By nature, Rahul was, given to striking up casual conversations with strangers.
 (a) casual (b) gregarious
 (c) reticent (d) diffident

111. It is difficult to drink from a cup which is full to the
 (a) circumference
 (b) brim
 (c) top
 (d) edge
112. Duryodhana was the main of the pandavas.
 (a) adversity
 (b) enmity
 (c) effrontery
 (d) adversary
113. Kiron knew that to apologise would be to admitting she had failed.
 (a) assumed (b) abrogate
 (c) tantamount (d) equate
114. A leading newspaper has revealed that the Prime Minister had in the secret decision to sell arms to the dictator.
 (a) forewarned (b) acceded
 (c) acquiesced (d) conformed
115. Her ideas do not to the general definition of civilization.
 (a) opine (b) conform
 (c) confirm (d) review
116. The King has to a proposal to enhance the powers of the Council of Ministers.
 (a) allied (b) opined
 (c) assented (d) coincided
117. The use a sporting middle age is like the half-time at a hockey match.
 (a) antonym (b) analogy
 (c) device (d) synonym
118. The two sides in the civil war signed a peace
 (a) truce (b) accord
 (c) alibi (d) pretext
119. Many companies ask their employees to sign a of secrecy.
 (a) espionage (b) bond
 (c) bondage (d) wish
120. The Christmas tree was with stars and other decorative items.
 (a) endowed (b) enticed
 (c) beautiful (d) adorned

General Knowledge

- Match the following :
List-I (Wild life)
 A. Wild ass
 B. Lion tailed Macaque
 C. Hoolock Gibbon
List-II (State)
 1. Kerala
 2. Asom
 3. Gujarat

	A	B	C
(a)	1	3	2
(c)	3	1	2
- Which one of the following countries is not situated in the region between the Caspian Sea and the Black Sea ?
 (a) Armenia
 (b) Azerbaijan
 (c) Georgia
 (d) Ukraine
- Match the following :
List-I (Scientist)
 A. F. G. Banting
 B. J. Lister
 C. Louis Pasteur
 D. E. Jenner
List-II (Work)
 1. Vaccination for smallpox
 2. Germ theory
 3. Use of carbolic acid as an antiseptic
 4. Discovery of insulin

	A	B	C	D
(a)	4	3	2	1
(c)	3	4	2	1
- Which of the following is not a bird ?
 (a) Bat
 (b) Emu
 (c) Kiwi
 (d) Ostrich
- In the context of ecology and environment, what does the Red Data Book pertain to ?
 (a) Details of harmful levels of various pollutants
 (b) A complete list of all endangered plants and animals
 (c) A description of the consequences of nuclear holocaust
 (d) A description of the sociological and psychological consequence of genetically modified plants and animals
- Which of the following diseases are preventable by vaccine ?
 1. Tetanus
 2. Polio
 3. Leprosy
 4. Pertussis
 Select the correct answer using the code given below :
 (a) 1 and 3 only
 (b) 2 and 4 only
 (c) 1, 2 and 4 only
 (d) 1, 2, 3 and 4
- Which one of the following glands in the human body stores iodine ?
 (a) Parathyroid
 (b) Thyroid
 (c) Pituitary
 (d) Adrenal
- Which one of the following Indian scientists was elected as a fellow of the Royal Society of London for his contribution in the field of Plant Physiology and Physics ?
 (a) Ashutosh Mookerjee
 (b) Jagdish Chandra Bose
 (c) Prafulla Chandra Ray
 (d) P.C. Mahalanobis
- Which one of the following vitamins helps in clotting of blood ?
 (a) Vitamin A
 (b) Vitamin B₆
 (c) Vitamin D
 (d) Vitamin K
- Which one of the following vitamins is abundant in Guava fruits ?
 (a) Vitamin A
 (b) Vitamin B₁₂
 (c) Vitamin C
 (d) Vitamin D
- Match the following :
List-I (Ethnic Community)
 A. Apatani
 B. Bhutia
 C. Gond
 D. Meiti
List-II (State)
 1. Arunachal Pradesh
 2. Madhya Pradesh
 3. Manipur
 4. Sikkim

	A	B	C	D
(a)	1	2	4	3
(c)	3	2	4	1
- Which one of the following countries is not a member of the OPEC ?
 (a) Algeria
 (b) Indonesia
 (c) Malaysia
 (d) Nigeria
- Who is the author of the book "Conquest of Self" ?
 (a) Aurobindo Ghosh
 (b) Rabindranath Tagore
 (c) Mahatma Gandhi
 (d) S. Radhakrishnan
- Which Schedule of the Constitution of India contains the three lists that divide powers between the Union and the States ?
 (a) Fifth
 (b) Sixth
 (c) Seventh
 (d) Eighth
- Consider the following statements :
 1. When the Vice President of India acts as the President of India, he performs simultaneously the functions of the Chairman of Rajya Sabha.
 2. The President of India can promulgate Ordinances at any time except when both Houses of Parliament are in session.
 Which of the statements given above is/are correct ?
 (a) 1 only
 (b) 2 only
 (c) Both 1 and 2
 (d) Neither 1 nor 2
- Where will be the Asian Games-2010 held ?
 (a) Beijing
 (b) Pyongyang
 (c) Guangzhou
 (d) Shanghai
- Which one of the following causes the Chikungunya disease ?
 (a) Bacteria
 (b) Helminthic worm
 (c) Protozoan
 (d) Virus
- In addition to the Home Rule Movement started by Annie Besant, who of the following also started another Home Rule Movement ?
 (a) Aurobindo Ghosh
 (b) Bal Gangadhar Tilak
 (c) Bipin Chandra Pal
 (d) Lala Lajpat Rai
- What does water gas comprise of ?
 (a) Carbon monoxide and hydrogen
 (b) Carbon dioxide and hydrogen
 (c) Carbon monoxide and methane
 (d) Carbon dioxide and methane
- What does sphygmomanometer measure ?
 (a) Blood pressure
 (b) Velocity of fluids
 (c) Temperature
 (d) Curvature of spherical surfaces
- What is the purpose of adding baking soda to dough ?
 (a) To generate moisture
 (b) To give a good flavour
 (c) To give good colour
 (d) To generate carbon dioxide
- Efficient working of optical fibre is dependent on which one of the following ?
 (a) Reflection
 (b) Interference
 (c) Diffraction
 (d) Total internal reflection
- A mother of blood group O has a group O child. What could be father of the child ?
 (a) O only
 (b) A or B or O
 (c) A or B only
 (d) AB only
- The great Lawn Tennis player Bjorn Borg is from which country ?
 (a) Sweden
 (b) Australia
 (c) USA
 (d) Italy
- Whom did Venus Williams defeat in the Women Finals of the Wimbledon-2007 ?
 (a) Amelie Mauresmo
 (b) Marion Bartoli
 (c) Justin Henin Hardenne
 (d) Maria Sharapova
- Which one of the following is the capital of Cambodia ?
 (a) Ho Chi Minh city
 (b) Hanoi
 (c) Semarang
 (d) Phnom Penh
- Venugopal Dhoot is associated with which one of the following ?
 (a) Suzlon
 (b) Videocon
 (c) Ranbaxy
 (d) Maruti Udyog

28. Where was the Sixth WTO Ministerial Conference (MC6) held ?
 (a) Singapore (b) Bangkok
 (c) Hong Kong (d) Kuala Lumpur
29. What is the approximate life expectancy for males in India on the basis of data for the year 2006 ?
 (a) 56 years (b) 58 years
 (c) 64 years (d) 68 years
30. Consider the following statements :
 1. The maximum number of the Judges of the Supreme Court of India is prescribed in the Constitution of India.
 2. The maximum number of the Members of the Union Public Service Commission is prescribed in the Constitution of India.
 Which of the statements given above is/are correct ?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2
31. Consider the following statements :
 The Charter Act of 1853
 1. allowed the entry of Indians into the Civil Services through a system of open competitive examination.
 2. prescribed the minimum age of 21 years to appear in the Civil Services Examination.
 Which of the statements given above is/are correct ?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2
32. Who among the following freedom fighters was associated with the foundation of Bharatiya Vidya Bhawan ?
 (a) Madan Mohan Malviya (b) Acharya Narendra Dev
 (c) K.M. Munshi (d) J.B. Kriplani
33. Who among the following was nominated by Mahatma Gandhi for the Presidentship of the Congress in 1939 against Subhash Chandra Bose ?
 (a) Jawaharlal Nehru (b) Pattabhi Sitaramayya
 (c) Govind Ballabh Pant (d) Sardar Vallabhbhai Patel
34. In which one of the following are Samudragupta's achievements mentioned ?
 (a) Allahabad Pillar Inscription
 (b) Junagadh Rock Inscription
 (c) Mehrauli Iron Pillar Inscription
 (d) Hathigumpha Edict
35. In whose Court, did Captain Hawkins, a representative of the English East India Company arrive to obtain royal favour ?
 (a) Akbar (b) Jahangir
 (c) Shahjahan (d) Aurangzeb
36. Who was invited by Lord Wavell to form the Interim Government in India in 1946 ?
 (a) C. Rajagopalachari (b) Sardar Patel
 (c) Jawaharlal Nehru (d) Rajendra Prasad
37. Who was W.C. Rand, murdered by the Chapekar brothers in the year 1897 ?
 (a) Commissioner of Police in Poona
 (b) A British Judge
 (c) The Chairman of the Poona Plague Commission
 (d) A Medical doctor
38. During whose viceroyalty was the Vernacular Press Act repealed ?
 (a) Lord Bentinck (b) Lord Canning
 (c) Lord Ripon (d) Lord Dufferin
39. Through whose initiative was the Dhaka Anushilan Samiti formed in October 1906 ?
 (a) Barindra Kumar Ghosh (b) Memchandra Qanungo
 (c) Pulin Behari Das (d) Aurobindo Ghosh
40. In the context of the Indian Freedom Struggle, who among the following was considered moderate ?
 (a) Bal Gangadhar Tilak (b) Bipin Chandra Pal
 (c) Lala Lajpat Rai (d) Gopal Krishna Gokhale
41. Rabindranath Tagore renounced his Knighthood to protest against which one of the following ?
 (a) Repression of political prisoners in prisons
 (b) Rowlatt Act
 (c) Jallianwalla Bagh Massacre
 (d) Partition of Bengal
42. Which one among the following was the novel feature of the Morley-Minto Reforms (1909) ?
 (a) It widened the electorate
 (b) It reduced the power of Governors
 (c) It introduced communal representation
 (d) It enlarged the powers of legislators
43. Who among the following was associated with the Battle of Buxar ?
 (a) Aurangzeb (b) Farukhsiyar
 (c) Muhammad Shah (d) Shah Alam II
44. What is the correct chronological order of the following events?
 1. Transfer of capital from Calcutta to Delhi
 2. The Congress split at Surat
 3. The partition of Bengal
 4. The establishment of the Home Rule League
 Select the correct answer using the code given below :
 (a) 1- 2- 4- 3 (b) 3- 2- 1- 4
 (c) 1- 2- 3- 4 (d) 3- 2- 4- 1
45. What was the Ilbert Bill intended for ?
 (a) To remove racial discrimination in employment
 (b) To enable Indian District Magistrates and Session Judges to try Europeans
 (c) To save Indians from racial humiliation
 (d) To change the method of recruitment in the Indian Civil Service
46. Who among the following determines the authority who shall readjust the allocation of seats in the Lok Sabha to the States, and division of each State into territorial constituencies ?
 (a) The President of India
 (b) The Parliament of India
 (c) The Chief Election Commissioner of India
 (d) The Lok Sabha alone
47. Where was the First Non-Aligned Summit (NAM) Meet held ?
 (a) New Delhi (b) Cairo
 (c) Belgrade (d) Havana
48. WTO came into existence at the conclusion of which Round of GATT ?
 (a) Singapore (b) Uruguay
 (c) Tokyo (d) Marrakesh
49. Which one of the following Schedules of the Constitution of India includes the disqualification of a Legislator on grounds of defection ?
 (a) 8th Schedule (b) 7th Schedule
 (c) 9th Schedule (d) 10th Schedule
50. Who among the following can be the Chairperson of the National Human Rights Commission ?
 (a) A Member of either House of Parliament
 (b) A Chief Justice of the Supreme Court of India
 (c) A social worker actively involved in the promotion of human rights
 (d) Any sitting judge of High Court or Supreme Court
51. Consider the following statements about the Attorney-General of India ?
 1. He is appointed by the President of India.
 2. He has the right to take part in the proceeding of the Parliament.
 3. He has the right of audience in all courts in India.
 Which of the statements given above are correct ?
 (a) 1 and 2 only (b) 1 and 3 only
 (c) 2 and 3 only (d) 1, 2 and 3

52. Which one of the following districts does not have a gold field?
 (a) Anantpur (b) Kolar
 (c) Raichur (d) Visakhapatnam
53. Who coined the term "Dictatorship of the Proletariat"?
 (a) V. Lenin (b) Francis Bacon
 (c) Karl Marx (d) J. Stalin
54. Who of the following constitutes a Finance Commission for a State in India?
 (a) The President of India
 (b) The Governor of the State
 (c) The Union Finance Minister
 (d) The Union Cabinet
55. Consider the following statements:
 1. The Annual Appropriation Bill is passed by the Lok Sabha in the same manner as any other Bill.
 2. An amendment to the Constitution of India can be initiated by an introduction of a Bill in either Lok Sabha or Rajya Sabha.
 Which of the statements given above is/are correct?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2
56. Which one of the following is the subject of the Narasimhan Committee Reports of years 1991 and 1998?
 (a) Administrative Reforms (b) Banking Reforms
 (c) Constitutional Reforms (d) Electoral Reforms
57. Consider the following statements about Lakshya:
 1. It is one of India's advanced light helicopters.
 2. It is remote-controlled from the ground and designed to impart training to pilots.
 Which of the statements given above is/are correct?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2
58. In the Cauvery River water dispute, which one of the following groups of states are concerned?
 (a) Kerala and Karnataka only
 (b) Karnataka, Andhra Pradesh and Maharashtra
 (c) Kerala, Karnataka, Tamil Nadu and Union Territory of Puducherry
 (d) Kerala, Goa, Karnataka and Tamil Nadu
59. Consider the following statements:
 1. Dakshin Gangotri is India's second scientific manned station in Antarctica after Maitri.
 2. The National Centre for Antarctic and Ocean Research is situated at Goa.
 Which of the statements given above is/are correct?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2
60. Who among the following Indian artists was conferred the prestigious French Award — "The Knight of the Order of Art and Letters"?
 (a) Indira Goswami (b) Anjole Ela Menon
 (c) Gopi Gajwani (d) Yash Chopra
61. Which one among the following was the first English newspaper in India in the year 1780?
 (a) The Calcutta Gazette (b) The Bengal Gazette
 (c) The Bengal Journal (d) The Bombay Herald
62. Which one among the following Acts first made the provision of the appointment of an Indian High Commissioner in the Great Britain?
 (a) Indian Council Act, 1892
 (b) Indian Council Act, 1909
 (c) Government of India Act, 1919
 (d) Government of India Act, 1935
63. Which one of the following princely states acceded to the Indian Union on 15 August, 1947?
 (a) Hyderabad (b) Junagarh
 (c) Kashmir (d) Mysore
64. Who among the following immediately succeeded Rammohan Roy as the head of the Brahmo Samaj?
 (a) Devendra Nath Tagore (b) Akshay Kumar Datta
 (c) Keshab Chandra Sen (d) Sibnath Shastri
65. Consider the following statements:
 1. Nitric acid is used in the production of fertilizers.
 2. Sulphuric acid is used in the production of explosives.
 Which of the statements given above is/are correct?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2
66. Which one of the following is correct?
 (a) 550 pounds through a height of one foot in one second
 (b) 1100 pounds through a height of one foot in one second
 (c) 550 pounds through a height of one yard in one second
 (d) 1100 pounds through a height of one yard in one second
67. Which one of the following is not a constituent of biogas?
 (a) Methane (b) Carbon dioxide
 (c) Hydrogen (d) Nitrogen dioxide
68. Which one of the following metals is less reactive than hydrogen?
 (a) Barium (b) Copper
 (c) Lead (d) Magnesium
69. A coin immersed in water pond appears to be raised when viewed from the top. What is this due to?
 (a) Total internal reflection of light
 (b) Scattering of light
 (c) Reflection of light
 (d) Refraction of light
70. Which one of the following substances is made from natural raw materials?
 (a) Rayon (b) Nylon
 (c) Polyester (d) Polystyrene
71. An α -particle consists of which of the following?
 (a) 2 protons and 2 neutrons
 (b) 1 proton and 1 electron
 (c) 2 protons and 4 neutrons
 (d) 1 proton and 1 neutron
72. Which of the following isotopes of carbon is/are used in carbon dating?
 (a) ${}^6\text{C}^{12}$ only (b) ${}^6\text{C}^{13}$ only
 (c) ${}^6\text{C}^{14}$ only (d) ${}^6\text{C}^{12}$ and ${}^6\text{C}^{14}$
73. Which one of the following is involved for desalination of sea water?
 (a) Reverse osmosis
 (b) Simple osmosis
 (c) Use of sodium aluminium silicate as zeolite
 (d) Use of ion selective electrodes
74. Which of the following metals are present in hemoglobin and chlorophyll, respectively?
 (a) Fe and Mg (b) Fe and Zn
 (c) Mg and Zn (d) Zn and Mg
75. Consider the following statements in respect of thyroid gland:
 1. It is situated in the neck.
 2. It is vital to maintenance of normal body temperature.
 Which of the statements given above is/are correct?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2
76. Consider the following statements:
 1. The current Economic Census is the seventh in the series so far conducted in India.
 2. The Economic Census in India is undertaken by the Department of Economic Affairs (Union Ministry of Finance).
 Which of the statements given above is/are correct?
 (a) 1 only (b) 2 only
 (c) Both 1 and 2 (d) Neither 1 nor 2

77. What is the target year for eliminating the revenue deficit by the Government of India as per the Fiscal Responsibility and Budget Management Act as amended in the year 2004 ?
 (a) 2007-08 (b) 2008-09
 (c) 2009-10 (d) 2010-11
78. Where is the National Institute of Ocean Technology located ?
 (a) Chennai (b) Mangalore
 (c) Thiruvanthapuram (d) Visakhapatnam
79. As per the Census 2001, what is the approximate percentage of the Scheduled Tribe population of India ?
 (a) 4% (b) 5% (c) 7% (d) 8%
80. Which one among the following administers the International Development Association ?
 (a) UNDP (b) UNIDO
 (c) IFAD (d) IBRD
81. Who among the following as a recipient of the Magsaysay award ?
 (a) Nirmala Deshpande (b) Arvind Kejriwal
 (c) Suprabha Seshan (d) C. N. R. Rao
82. Who among the following was never a Deputy Prime Minister of India ?
 (a) Devi Lal (b) G. L. Nanda
 (c) L. K. Advani (d) Y.B. Chavan
83. Which country among the following has the largest cultivated area of cotton in the world ?
 (a) Egypt (b) India
 (c) Pakistan (d) USA
84. How is Kishori Amonkar well-known, as ?
 (a) Classical dancer (b) Classical singer
 (c) Poet (d) Theatre personality
85. With reference to the defence of India, what is Bison, that was recently in news ?
 (a) An unmanned low flying aircraft for reconnaissance
 (b) An indigenously developed all weather multipurpose helicopter
 (c) An indigenously developed air-borne early warning system
 (d) A fighter aircraft with a powerful radar and missiles
86. What is 'Operation Kolleru' that was recently in the news ?
 (a) A massive river linkage project
 (b) A project to improve a wetland
 (c) A project to supply drinking water to a mega city
 (d) A rural drinking water supply scheme of a southern state
87. Who among the following is the author of the book "The Namesake" ?
 (a) Arundhati Roy (b) Amitava Ghosh
 (c) Jhumpa Lahiri (d) Kiran Desai
88. Recently, as a geopolitical strategic relationship, India has been active in creating a quadrilateral coalition. Which one of the following is not in the proposed coalition ?
 (a) Australia (b) Indonesia
 (c) Japan (d) USA
89. Which country hosts the Azlan Shah Cup Hockey tournament ?
 (a) Malaysia (b) Indonesia
 (c) Pakistan (d) UAE
90. Who invented Black Box Flight Recorder ?
 (a) Robert Stephenson (b) John Shorthand
 (c) David Warren (d) David Robinson
91. Which one of the following States has built the famous Gandhi Sagar across the Chambal river ?
 (a) Rajasthan (b) Maharashtra
 (c) Uttar Pradesh (d) Madhya Pradesh
92. Which one of the following is correct?
 The Palghat Gap serves inland communications from
 (a) Madurai to Thiruvananthapuram
 (b) Chennai to Kochi
 (c) Pune to Mumbai
 (d) Bangaluru to Mangalore
93. Which one of the following pairs is not correctly matched ?
- | Headquarters of Railway Zone | City |
|------------------------------|------------|
| (a) South Western | — Hubli |
| (b) North Western | — Jaipur |
| (c) Western | — Mumbai |
| (d) Central | — Jabalpur |
94. The Great Barrier Reef is located in which country ?
 (a) Chile (b) Australia (c) USA (d) Indonesia
95. River Luni originates near Pushkar and drains into which one of the following ?
 (a) Rann of Kachchh (b) Arabian Sea
 (c) Gulf of Cambay (d) Lake Sambhar
96. Which of the following seas/ gulfs are connected by the Suez Canal ?
 (a) The Mediterranean Sea and the Red Sea
 (b) Gulf of Oman and the Red Sea
 (c) The Mediterranean Sea and the Gulf of Oman
 (d) Persian Gulf and the Arabian Sea
97. What is the other name for the equatorial rain forests ?
 (a) Llanos (b) Campos (c) Gran Chaco (d) Selvas
98. Which of the following straits is not in Asia?
 (a) Malacca Strait (b) Bass Strait
 (c) Formosa Strait (d) Molucca Strait
99. Match the following :
- | List-I
(Centre of Economic Activity) | List-II (Country) |
|---|-------------------|
| A. Edmonton | 1. Australia |
| B. Kimberley | 2. South Africa |
| C. Cardiff | 3. UK |
| D. Cairns | 4. Canada |
| A B C D | A B C D |
| (a) 1 2 3 4 | (b) 4 3 2 1 |
| (c) 1 3 2 4 | (d) 4 2 3 1 |
100. Which one of the following cities is located on the banks of the river St. Lawrence ?
 (a) Chicago (b) Detroit
 (c) Montreal (d) Vancouver
101. Which one of the following national parks is located near Chamoli ?
 (a) Dudhwa National Park (b) Great Himalayan Park
 (c) Jim Corbett National Park (d) Nanda Devi National Park
102. The reservoir G.B. Pant Sagar is located on which river ?
 (a) Betwa (b) Ghaghara
 (c) Kosi (d) Rihand
103. The National Forestry Action Plan aims to bring 33% of land area in India under tree cover by which year ?
 (a) 2008 (b) 2012 (c) 2016 (d) 2020
104. Among the following forest types in India, which one occupies the largest area ?
 (a) Tropical wet evergreen forest
 (b) Tropical moist deciduous forest
 (c) Sub-tropical dry evergreen forest
 (d) Montane wet temperate forest
105. Match the following :
- | List-I (Sea) | List-II (Country) |
|---------------|-------------------|
| A. Banda Sea | 1. China |
| B. Sulu Sea | 2. Indonesia |
| C. Tasman Sea | 3. New Zealand |
| D. Yellow Sea | 4. Philippines |
| A B C D | A B C D |
| (a) 2 4 3 1 | (b) 2 3 4 1 |
| (c) 1 4 3 2 | (d) 1 3 4 2 |

106. Who among the following abolished the 'Sati System' ?
 (a) Lord Minto (b) Lord Ripon
 (c) Lord Bentinck (d) Lord Lytton
107. What was the proposal made by Lokmanya Tilak at the Lucknow Session of the Congress in 1916 to transform the Congress from a deliberative body into one capable of leading a sustained movement ?
 (a) Transfer of leadership of the National Movement to the Home Rule League
 (b) Acceptance of all the proposals of the Muslim League
 (c) Formation of the Working Committee
 (d) Appointment of Annie Besant as the President of the Congress

108. Who was responsible for the enactment of the Hindu Widow's Remarriage Act of 1856 ?

- (a) Ishwar Chandra Vidyasagar
 (b) Devendranath Tagore
 (c) Raja Rammohan Roy
 (d) Keshab Chandra Sen

109. Where is the famous Khandariya Mahadeo temple located ?

- (a) Amaravati (b) Haridwar
 (c) Khajuraho (d) Nasik

110. Match the following :

List-I (Place of Tourist Interest)

- A. Coorg
 B. Matheran
 C. Pachmarhi
 D. Wayanad

List-II (State)

1. Karnataka
 2. Kerala
 3. Madhya Pradesh
 4. Maharashtra

- | | A | B | C | D |
|-----|---|---|---|---|
| (a) | 2 | 3 | 4 | 1 |
| (c) | 2 | 4 | 3 | 1 |

- | | A | B | C | D |
|-----|---|---|---|---|
| (b) | 1 | 4 | 3 | 2 |
| (d) | 1 | 3 | 4 | 2 |

111. At which one of the following places do the rivers Alaknanda and Bhagirathi merge to form Ganga ?

- (a) Devprayag (b) Rudraprayag
 (c) Karnaprayag (d) Vishnuprayag

112. In which ocean is the Cromwell current found ?

- (a) Pacific Ocean (b) Atlantic Ocean
 (c) Indian Ocean (d) Arctic Ocean

113. Which African country was originally known as Northern Rhodesia ?

- (a) Namibia (b) Tanzania
 (c) Zambia (d) Zimbabwe

114. Match the following :

List-I (Institute)

- A. National Geophysical Research Institute
 B. National Institute of Immunology
 C. National Institute of Mental Health and Neurosciences

D. National Institute of Occupational Health

List-II (City)

1. Ahmedabad
 2. Bangaluru
 3. New Delhi
 4. Hyderabad

- | | A | B | C | D |
|-----|---|---|---|---|
| (a) | 1 | 2 | 3 | 4 |
| (c) | 4 | 2 | 3 | 1 |

115. Match the following :

List-I (Produce)

- A. Saffron
 B. Coffee
 C. Tobacco
 D. Jute

- | | A | B | C | D |
|-----|---|---|---|---|
| (a) | 4 | 3 | 2 | 1 |
| (c) | 4 | 1 | 2 | 3 |

116. Which one of the following Union Territories of India recorded the highest literacy rate in the Census-2001 ?

- (a) Andaman and Nicobar Islands
 (b) Lakshadweep
 (c) Chandigarh
 (d) Puducherry

117. Match the following :

List-I

(National Park/
 Wildlife Sanctuary)

- A. Dachigam
 B. Bandhavgarh
 C. Bannerghatta
 D. Simlipal

- | | A | B | C | D |
|-----|---|---|---|---|
| (a) | 4 | 3 | 1 | 2 |
| (c) | 4 | 2 | 1 | 3 |

118. Which one of the following States recorded the highest percentage of Scheduled Caste population to its total population as per the Census-2001 ?

- (a) Uttar Pradesh (b) Bihar
 (c) Himachal Pradesh (d) Punjab

119. Which one of the following rivers flows between the Vindhyan Range and the Satpura Range of mountains ?

- (a) Narmada (b) Tapti
 (c) Son (d) Chambal

120. Which one of the following rivers has its source outside the Indian territory ?

- (a) Jhelum (b) Beas
 (c) Chenab (d) Sutlej

- | | A | B | C | D |
|-----|---|---|---|---|
| (b) | 1 | 3 | 2 | 4 |
| (d) | 4 | 3 | 2 | 1 |

List-II (State)

1. West Bengal
 2. Gujarat
 C. Karnataka
 D. Jammu and Kashmir

- | | A | B | C | D |
|-----|---|---|---|---|
| (b) | 2 | 1 | 4 | 3 |
| (d) | 2 | 3 | 4 | 1 |

1. Person standing at the end of the shadow of a pole measures that the length of the shadow is $\frac{1}{\sqrt{3}}$ times the length of the pole. At what angle of elevation will the man see the Sun ?

- (a) 60° (b) 30° (c) 45° (d) 15°

2. The angle of depression of vertex of a regular hexagon lying in a horizontal plane, from the top of tower of height 75 m located at the centre of the regular hexagon is 60° . What is the length of each side of the hexagon ?

- (a) $50\sqrt{3}$ m (b) 75 m (c) $25\sqrt{3}$ m (d) 25 m

3. If $p = \sin^{10} x$, then which one of the following is correct for any value x

- (a) $p \geq 1$ (b) $0 \leq p \leq 1$
(c) $1 \leq p \leq 2$ (d) None is correct

4. What is the value of the expression

$$\cos^2 \frac{\pi}{8} + 4 \cos^2 \frac{\pi}{4} - \sec \frac{\pi}{3} + 5 \tan^2 \frac{\pi}{3} + \sin^2 \frac{\pi}{8} ?$$

- (a) 8 (b) 10 (c) 16 (d) 18

5. Which of the following expressions for $0^\circ < \theta < 90^\circ$ is/are independent of θ ?

- (i) $\cos \theta (1 - \sin \theta)^{-1} + \cos \theta (1 + \sin \theta)^{-1}$
(ii) $\cos \theta (1 + \operatorname{cosec} \theta)^{-1} + \cos \theta (\operatorname{cosec} \theta - 1)^{-1}$

Select the correct answer using the code given below :

- (a) (i) only (b) (ii) only
(c) Both (i) and (ii) (d) Neither (i) nor (ii)

6. If $q \operatorname{cosec} \theta = p$ and θ is acute, then what is the value of $(\sqrt{p^2 - q^2}) \tan \theta$?

- (a) p (b) q (c) pq (d) $\sqrt{p^2 + q^2}$

7. If $a \cos \theta - b \sin \theta = c$, what is the value of

- (a) $\pm \sqrt{a^2 + b^2 + c^2}$ (b) $\pm \sqrt{a^2 - b^2 + c^2}$
(c) $\pm \sqrt{a^2 + b^2 - c^2}$ (d) $\pm \sqrt{a^2 - b^2 - c^2}$

8. If $2x^2 \cos 60^\circ - 4 \cot^2 45^\circ - 2 \tan 60^\circ = 0$, what is the value of x ?

- (a) 2 (b) 3 (c) $\sqrt{3} - 1$ (d) $\sqrt{3} + 1$

9. Which one of the following statements is true in respect of the expression $\sin 31^\circ + \sin 32^\circ$?

- (a) Its value is 0
(b) Its value is 1
(c) Its value is less than 1
(d) Its value is greater than 1

10. A triangle ABC is permitted to move around when its vertex A is fixed. What is the locus of the circumcentre ?

- (a) A straight line (b) A circle
(c) A point (d) A curve other than a circle

11. If mean of y and $\frac{1}{y}$ is M , then what is the mean of y^3 and

$$\frac{1}{y^3} ?$$

- (a) $\frac{M(M^2 - 3)}{3}$ (b) M^3
(c) $M^3 - 3$ (d) $M(4M^2 - 3)$

12. The following observation have been arranged in ascending order :

29, 32, 48, 52, x , $x + 3$, 71, 75, 80, 92

If the median of data is 61.5, then what is the value of x ?

- (a) 54 (b) 60 (c) 62 (d) 56

13. For an ogive, the cumulative frequencies are plotted against which of the following ?
(a) Upper limits of class intervals
(b) Lower limits of the class intervals
(c) Midpoints of the class intervals
(d) (b) or (c)

14. For the following frequency distribution

Class Interval	0-5	5-10	10-15	15-20	20-25	25-30
Frequency	10	15	30	80	40	20

If m is the value of mode, then which one of the following is correct ?

- (a) $5 < m < 10$ (b) $10 < m < 15$
(c) $15 < m < 20$ (d) $20 < m < 25$

15. The cumulative frequency curve of a frequency distribution with 6 classes and total frequency 60 is a straight line. Consider the following statements :

1. The first and the last classes have a frequency of 10 each.

2. Both the middle classes have a total frequency of 30.

3. The frequency distribution does not have a mode.

Which of the above are correct ?

- (a) 1 and 2 only (b) 1 and 3 only
(c) 2 and 3 only (d) 1, 2 and 3

16. Square diagrams are drawn to represent the following data :

Country	Pakistan	India	Myanmar	China
Labour Production (Rupees)	36	81	25	100

Using the scale $1 \text{ cm}^2 = \text{Rs. } 25$ what is the length of the representative square for India ?

- (a) 1.8 cm (b) 1.2 cm (c) 1 cm (d) 2 cm

Directions : Each of the next 4 (Four) items consists of two statements, one labelled as the 'Assertion (A)' and the other as 'Reason (R)'. You are to examine these two statements carefully and select the answers to these items using the codes given below :

Codes :

- (a) Both A and R are individually true and R is the correct explanation of A
(b) Both A and R are individually true but R is not the correct explanation of A
(c) A is true but R is false
(d) A is false but R is true

17. Assertion (A) : ABC is a triangle and AD is its angular bisector. If $AB = 6 \text{ cm}$, $BC = 7 \text{ cm}$, $AC = 8 \text{ cm}$, then $BD = 3 \text{ cm}$ and $CD = 4 \text{ cm}$.

Reason (R) : The angular bisector AD of a triangle cuts the base BC in the ratio $AB : AC$.

18. Assertion (A) : $\tan 50^\circ > 1$.

Reason (R) : $\tan \theta > 1$ for $0^\circ < \theta < 90^\circ$.

19. Assertion (A) : If the side of a rhombus is 10 cm, its diagonals should have values 16 cm and 12 cm.

Reason (R) : The diagonals of a rhombus cut at right angles.

20. Assertion (A) : $\sqrt{\frac{5041}{6889}}$ is rational.

Reason (R) : The square root of a rational number is always rational.

21. What are the roots of the equation

$$(a + b + x)^{-1} = a^{-1} + b^{-1} + x^{-1} ?$$

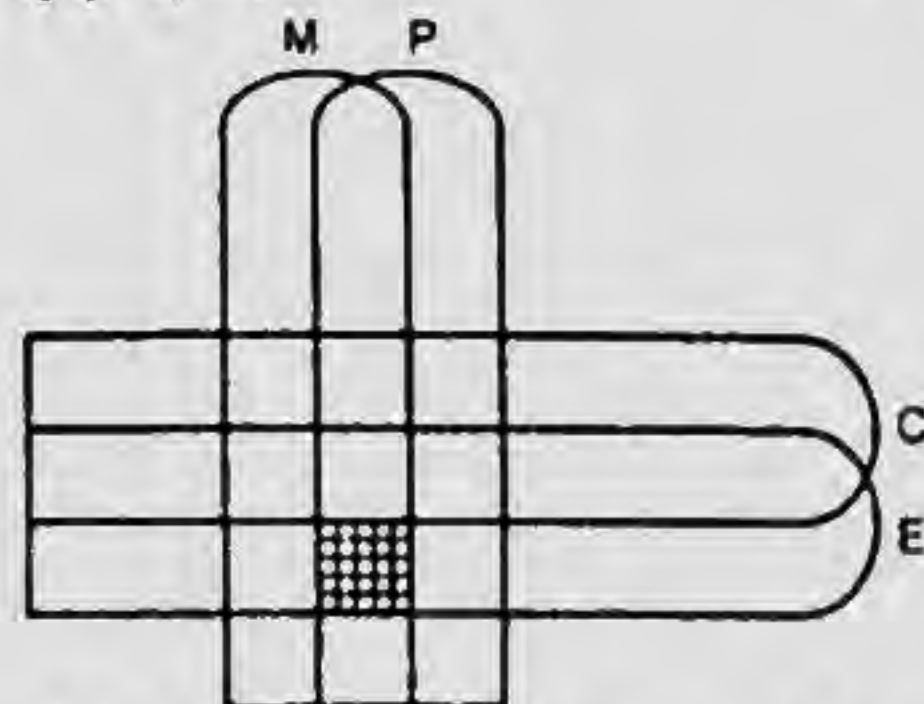
- (a) a, b (b) $-a, b$ (c) $a, -b$ (d) $-a, -b$

22. The monthly incomes of A and B are in the ratio 4 : 3. Each of them saves Rs. 600. If the ratio of their expenditure is 3 : 2, then what is the monthly income of A ?
 (a) Rs. 2400 (b) Rs. 1800 (c) Rs. 2000 (d) Rs. 3600
23. Let $P =$ Set of all integral multiples of 3
 $Q =$ Set of all integral multiples of 4
 $R =$ Set of all integral multiples of 6
 Consider the following relations :

1. $PUQ = R$
2. $P \subset R$
3. $R \subset (PUQ)$

Which of the relations given above is/are correct ?

- (a) Only 1 (b) Only 2 (c) Only 3 (d) 2 and 3
24. If $(x)^m = (y)^n = (z)^p$ and $xyz = 1$, then what is the value of $m + n + p$?
 (a) 0 (b) 1 (c) 2 (d) -1
25. The age of a mother, before two years, was eight times the age of her daughter. After one year, mother's age will be five times the daughter's age. After how many years from now, the mother's age will become three times the daughter's age ?
 (a) 6 yr (b) 8 yr (c) 10 yr (d) 12 yr
26. What is/are the real value(s) of $(256)^{0-16} \times (16)^{0-18}$?
 (a) -4 only (b) 4 only
 (c) 4, -4 (d) 2, -2



The Venn diagram given above represents four sets of students who have opted for Mathematics (M), Physics (P), Chemistry (C) and Electronics (E). What does the shaded region represent ?

- (a) Students who opted for Physics, Chemistry and Electronics
 (b) Students who opted for Mathematics, Physics and Chemistry
 (c) Students who opted for Mathematics, Physics and Electronics
 (d) Students who opted for Mathematics, Chemistry and Electronics
28. Which one of the following is correct ?
 $3.292929 \dots 1s$
 (a) an integer (b) a rational number
 (c) an irrational number (d) not a real number
29. If d is the HCF of two positive integers a and b , then there do exist unique integers $m (\neq 0)$ and $n (\neq 0)$, such that
 (a) $d = \frac{m}{a} + \frac{n}{b}$ (b) $d = am + bn$
 (c) $d = \frac{m}{a} - bn$ (d) $d = am + \frac{n}{b}$
30. If the numbers $q, q + 2, q + 6$ are all prime then what can be the value of $3q + 9$?
 (a) 18 (b) 42 only
 (c) 60 only (d) 42 or 60
31. Which one of the following is correct ?
 The sum of two irrational numbers
 (a) is always a natural or irrational
 (b) may be rational or irrational

(c) is always a rational number
 (d) is always an irrational number

32. If P be the principal amount and the rate of interest be $r\%$ per annum and the compound interest is calculated k times in a year, then what is the amount at the end of n years ?
 (a) $p \left(1 + \frac{r}{100k}\right)^{nk}$ (b) $p \left(1 + \frac{kr}{100}\right)^{nk}$
 (c) $p \left(1 + \frac{kr}{100}\right)^{\frac{n}{k}}$ (d) $p \left(1 + \frac{kr}{100k}\right)^{\frac{n}{k}}$
33. If $2.5252525 \dots = \frac{p}{q}$ (in the lowest form), then what is the value of $\frac{q}{p}$?
 (a) 0.4 (b) 0.42525
 (c) 0.0396 (d) 0.396
34. A person goes from a place A to another place B at a speed of 4 km/h and returns at a speed of 3 km/h. If he takes 7 h in all, then what is the distance between the two places ?
 (a) 12 km (b) 8 km
 (c) 6 km (d) 5 km
35. If HCF of m and n is 1, then what are the HCF of $m + n, m$ and HCF of $m - n, n$, respectively ? ($m > n$)
 (a) 1 and 2 (b) 2 and 1
 (c) 1 and 1 (d) Cannot be determined
36. Which one of the following is correct ?
 The number 222222 is
 (a) divisible by 3, but not divisible by 7
 (b) divisible by 3 and 7, but not divisible by 11
 (c) divisible by 2 and 7, but not divisible by 11
 (d) divisible by 3, 7 and 11
37. A train 200 m long fully passes a platform of 200 m length in 15 s. What is the speed of the train ?
 (a) 36 km/h (b) 48 km/h
 (c) 72 km/h (d) 96 km/h
38. In a division operation, the divisor is 5 times the quotient and twice the remainder. If the remainder is 15, then what is the dividend ?
 (a) 175 (b) 185
 (c) 195 (d) 250
39. The sum of the square of a number and the square of the reciprocal of the number, is thrice the difference of the square of the number and the square of the reciprocal of the number. What is the number ?
 (a) 1 (b) $(2)^{\frac{1}{4}}$
 (c) $(3)^{\frac{1}{3}}$ (d) $(4)^{\frac{1}{4}}$
40. If x and y denote respectively, the area and the sum of the lengths of diagonals of a rectangle with length 1 unit and breadth $\frac{1}{2}$ unit, then which one of the following is correct ?
 (a) x and y are rational
 (b) x is rational and y is irrational
 (c) x is irrational and y is rational
 (d) x and y are both irrational
41. Which is the largest number among $\sqrt{2}, \sqrt[3]{3}, \sqrt[4]{6}$ and $\sqrt[5]{12}$?
 (a) $\sqrt{2}$ (b) $\sqrt[3]{3}$
 (c) $\sqrt[4]{6}$ (d) $\sqrt[5]{12}$
42. If m and n are odd integers with $n < m$, then which is the largest integer among the following which divides $m^2 - n^2$?
 (a) 2 (b) 4
 (c) 6 (d) 8

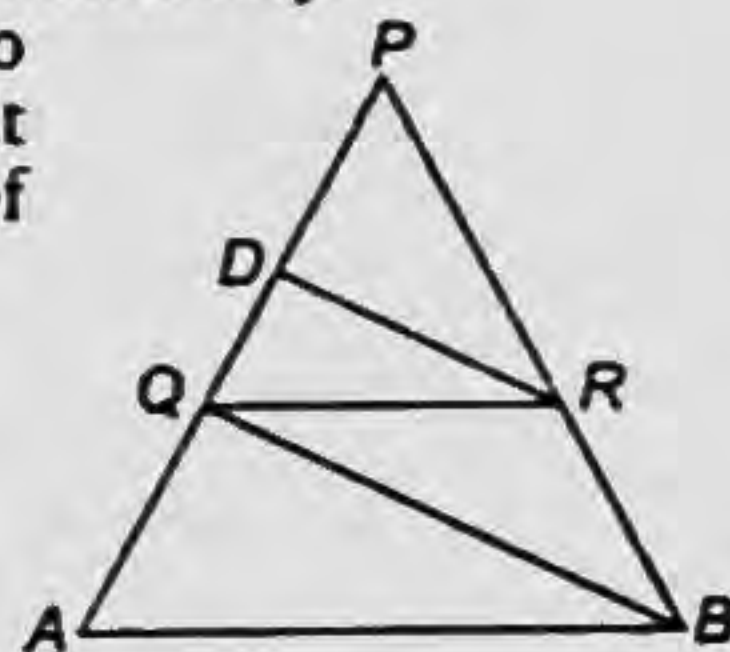
43. The population of a village increases by 20% in one year and decrease by 20% by the next year. If at the beginning of the third year, the population is 5184, what was the population in the first year?
 (a) 5400 (b) 5500
 (c) 5600 (d) 5800
44. An aeroplane flies along the four sides of a square at a speed of 100, 200, 300 and 400 km/h, respectively. What is the average speed of the plane in its flight around the square
 (a) 196 km/h (b) 200 km/h
 (c) 250 km/h (d) None of these
45. If a two-digit number is added to a number obtained by reversing the digits of the given number, then the sum is always divisible by which one of the following numbers?
 (a) 7 (b) 9
 (c) 10 (d) 11
46. LCM of two numbers is 16 times their HCF. The sum of LCM and HCF is 850. If one number is 50, then what is the other number?
 (a) 800 (b) 1200
 (c) 1600 (d) 2400
47. A man buys 4 tables and 5 chairs for Rs. 1000. If he sells the tables at 10% profit and chairs at 20% profit, he earns a profit of Rs. 120. What is the cost of one table?
 (a) Rs. 200 (b) Rs. 220
 (c) Rs. 240 (d) Rs. 260
48. 5 bells start tolling together and toll at intervals of 2, 4, 6, 8 and 10 s respectively. How many times do the five bells toll together in 20 min?
 (a) 10 (b) 11 (c) 12 (d) 15
49. An iron block is in the form of a cylinder of 1.5 m diameter and 3.5 m length. The block is to be rolled into the form of a bar, having a square section of side 5 cm. What will be the length of the bar?
 (a) 2375 m (b) 2475 m
 (c) 2575 m (d) 2600 m
50. An equilateral triangle and a regular hexagon are inscribed in a given circle. If a and b are the lengths of their sides respectively, then which one of the following is correct?
 (a) $a^2 = 2b^2$ (b) $b^2 = 3a^2$
 (c) $b^2 = 2a^2$ (d) $a^2 = 3b^2$
51. A rectangular cardboard is 18 cm \times 10 cm. From the four corners of the rectangle, quarter circles of radius 4 cm are cut. What is the perimeter (approximate) of the remaining portion?
 (a) 47.1 cm (b) 49.1 cm
 (c) 51.0 cm (d) 53.0 cm
52. A cycle wheel makes 1000 revolutions in moving 440 m. What is the diameter of the wheel?
 (a) 7 cm (b) 14 cm (c) 28 cm (d) 21 cm
53. The total surface area of a cone, whose generator is equal to the radius R of its base, is S . If A is the area of a circle of radius $2R$, then which one of the following is correct?
 (a) $A = S$ (b) $A = 2S$
 (c) $A = S/2$ (d) $A = 4S$
54. In a cricket match, the first 5 batsmen of a team scored runs : 30, 40, 50, 30 and 40. If these data represent a four sided figure with 50 as its one of the diagonals, then what does second diagonal represent?
 (a) 30 runs (b) 40 runs
 (c) 50 runs (d) 70 runs
55. The incircle of a quadrilateral of perimeter $2p$ has radius r . What is the area of the quadrilateral?
 (a) $p(r + 1)$ (b) $2pr$
 (c) pr (d) None of these
56. The ratio of the radii of the taps T_1 and T_2 is 2 : 1. Water is flowing through them with the same velocity. What is ratio of the time required to completely fill two identical drums kept under T_1 and T_2 ?
 (a) 2 : 1 (b) 1 : 2
 (c) 4 : 1 (d) 1 : 4
57. 27 drops of water form a big drop of water. If the radius of each smaller drop is 0.2 cm, then what is the radius of the bigger drop?
 (a) 0.4 cm (b) 0.6 cm
 (c) 0.8 cm (d) 1.0 cm
58. The base diameter of a right circular cylinder is 3 cm. There is a section making an angle of 30° with the cross section. What is its area?
 (a) $\frac{9\pi}{4}$ cm² (b) $\frac{3\sqrt{3}\pi}{2}$ cm²
 (c) $\frac{9\pi}{8}$ cm² (d) $\frac{9\sqrt{3}\pi}{8}$ cm²
59. S_1, S_2, S_3 are three rectangular sheets of identical areas with their lengths in the ratio 1 : 2 : 3. If each is converted into a right circular cylinder open at both ends by joining its shorter parallel sides, what is the ratio of the volumes of the three cylinders, S_1, S_2 and S_3 , respectively, so formed?
 (a) 1 : 1 : 1 (b) 1 : 2 : 3
 (c) 1 : 2 : 3 (d) 6 : 3 : 2
60. A cone is inscribed in a hemisphere such that their bases are common. If C is the volume of the cone and H that of the hemisphere, then what is the value of $C : H$?
 (a) 1 : 2 (b) 2 : 3
 (c) 3 : 4 (d) 4 : 5
61. A circle is inscribed in an equilateral triangle of side a . What is the area of any square inscribed in this circle?
 (a) $\frac{a^2}{3}$ (b) $\frac{a^2}{4}$
 (c) $\frac{a^2}{6}$ (d) $\frac{a^2}{8}$
62. Which one of the following is correct?
 (a) $\sin 35^\circ > \cos 55^\circ$ (b) $\cos 61^\circ > \frac{1}{2}$
 (c) $\sin 32^\circ > \frac{1}{2}$ (d) $\tan 44^\circ > 1$
63. What is value of x in the equation

$$x \frac{\operatorname{cosec}^2 30^\circ \sec^2 45^\circ}{8 \cos^2 45^\circ \sin^2 60^\circ} = \tan^2 60^\circ - \tan^2 30^\circ$$

 (a) $x = 1$ (b) $x = 2$
 (c) $x = \frac{1}{2}$ (d) $x = \frac{3}{2}$
64. Let two sets A and B have $2n$ and $4n$ elements, respectively, where n is a natural number. What can be the minimum number of elements in $A \cup B$?
 (a) $2n$ (b) $3n$
 (c) $4n$ (d) $6n$
65. Let $A = \{x : x^2 - 6x + 8 = 0\}$ and $B = \{x : 2x^2 + 3x - 2 = 0\}$. Then which one of the following is correct?
 (a) $A \subseteq B$
 (b) $B \subseteq A$
 (c) Neither $A \subseteq B$ nor $B \subseteq A$
 (d) $A = B$

66. What is the value of $2 + \sqrt{2} + \frac{1}{2 + \sqrt{2}} - \frac{1}{2 - \sqrt{2}}$?
 (a) 2 (b) $2 - \sqrt{2}$
 (c) $4 + \sqrt{2}$ (d) $2\sqrt{2}$
67. What is the square root of $9 + 2\sqrt{14}$?
 (a) $1 + 2\sqrt{2}$ (b) $\sqrt{3} + \sqrt{6}$
 (c) $\sqrt{2} + \sqrt{7}$ (d) $2 + \sqrt{5}$
68. A person has four iron bars whose lengths are 24 m, 36 m, 48 m and 72 m respectively. This person wants to cut pieces of same length from each of four bars. What is the least number of total pieces it he is to cut without any wastage?
 (a) 10 (b) 15 (c) 20 (d) 25
69. In a mixture of 80 L, the ratio of milk and water is 3 : 1. If the ratio of milk and water is to be 2 : 3, then how much amount of water is to be further added ?
 (a) 70 L (b) 80 L
 (c) 100 L (d) 140 L
70. In respect of a bill of Rs. 10,000, what is the difference between a discount of 40% and two successive discounts of 36% and 4% ?
 (a) Zero (b) Rs. 144
 (c) Rs. 256 (d) 400
71. A man invested Rs. 1000 on a simple interest at a certain rate and Rs. 1500 at 2% higher rate. The total interest in three years is Rs. 390. What is the rate of interest for Rs. 1000?
 (a) 4% (b) 5% (c) 6% (d) 8%
72. A can finish a work in 8 days and B can do it in 12 days. After A had worked for 3 days B also joins A to finish the remaining work. In how many days will the remaining work be finished ?
 (a) 2 days (b) 3 days
 (c) 4 days (d) 5 days
73. Under constant pressure conditions, the temperature varies directly as volume. At a given instant, volume = 60 m^3 , temperature = 300° K. If the volume is increased to 100 m^3 , then what will be the temperature ?
 (a) 200° K (b) 300° K
 (c) 400° K (d) 500° K
74. If 18 men earn Rs. 1440 in 5 days, how many men can earn Rs. 1920 in 8 days ?
 (a) 10 (b) 12 (c) 15 (d) 18
75. ABC is a triangle with $\angle A = 90^\circ$. From A, a perpendicular AD is drawn on BC. Which one of the following is correct ?
 (a) $\Delta ABC \sim \Delta DAC$ only
 (b) $\Delta DAC \sim \Delta DBA$ only
 (c) $\Delta ABC \sim \Delta DBA \sim \Delta DAC$
 (d) $\Delta ABC \sim \Delta DAB$ only
 Where \sim stands for the notation of similarity.

76. In the given figure, QR is parallel to AB, and DR is parallel to QB. What is the number of distinct pairs of similar triangles ?
 (a) 1
 (b) 2
 (c) 3
 (d) 4

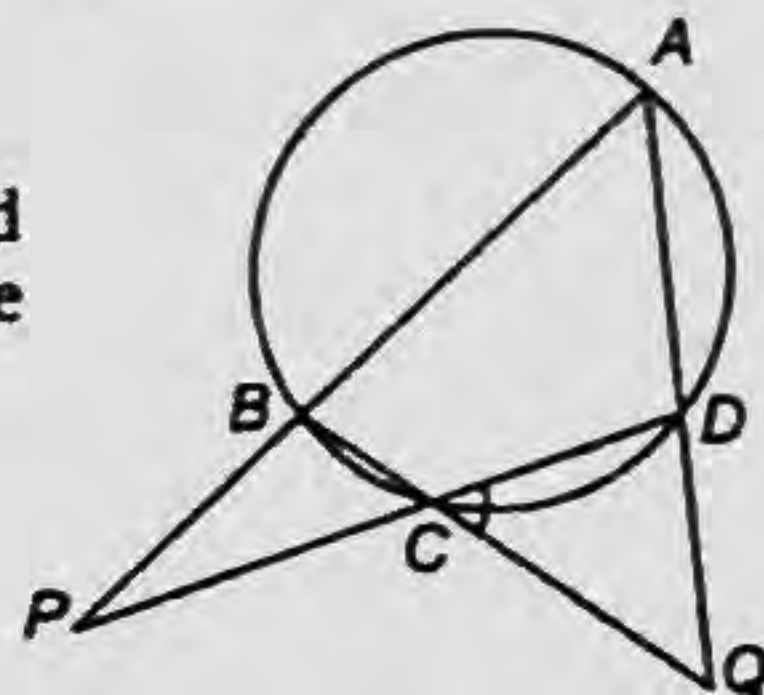


77. In the given figure, if

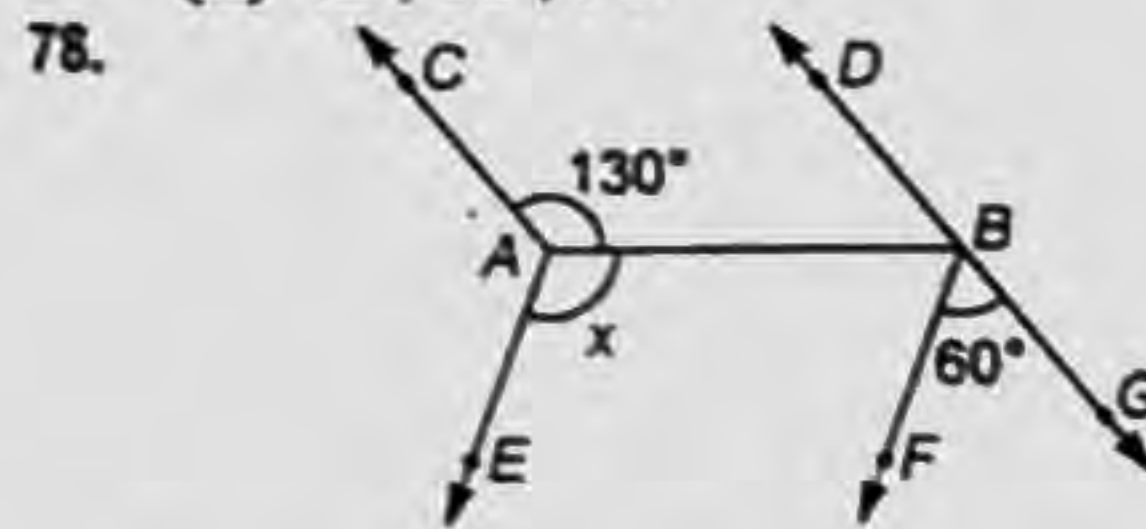
$$\frac{x}{3} = \frac{y}{4} = \frac{z}{5}$$

where $\angle DCQ = x$, $\angle BPC = y$ and $\angle DQC = z$, then what are the values of x, y, z respectively ?

- (a) 33°, 44°, 55°
 (b) 36°, 48°, 60°

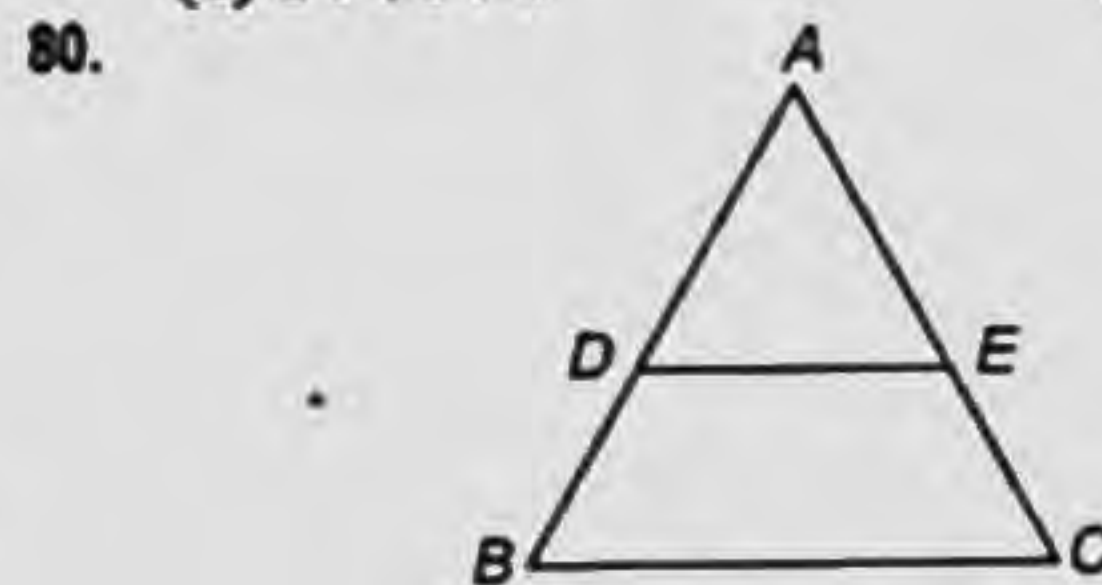


- (c) 39°, 52°, 65°
 (d) 42°, 56°, 70°



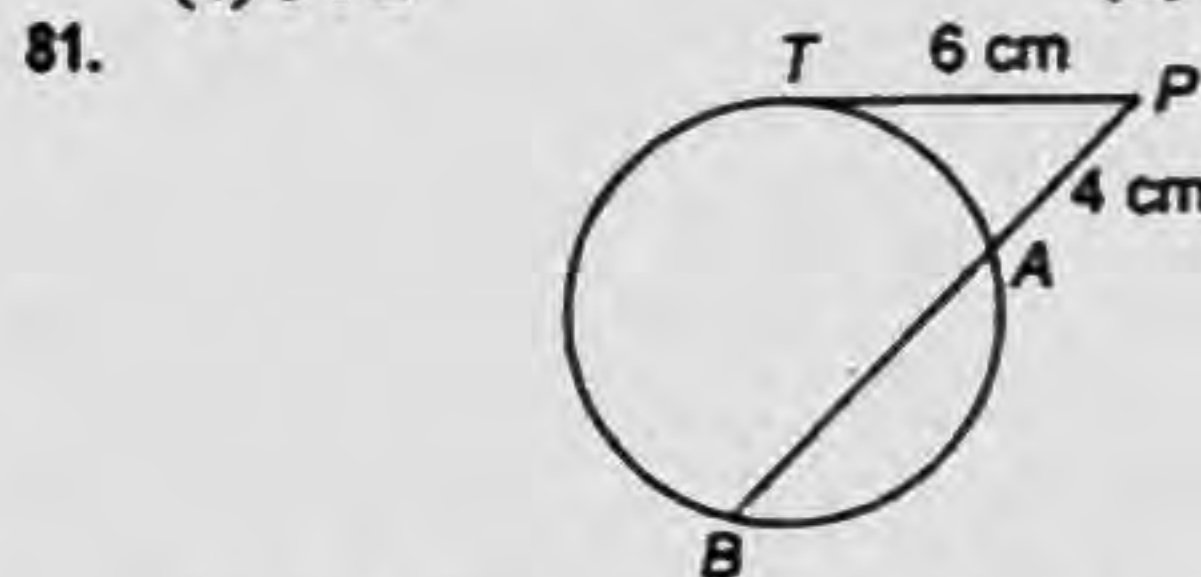
In the figure given above, $AC \parallel BD$ and $AE \parallel BF$. What is $\angle x$?

- (a) 130° (b) 110°
 (c) 70° (d) 50°
79. If the angles of a triangle are 30°, 60°, 90°, then what is the ratio of the corresponding sides ?
 (a) 1 : 2 : 3 (b) 1 : 1 : $\sqrt{2}$
 (c) 1 : $\sqrt{3}$: 2 (d) 1 : $\sqrt{2}$: 2



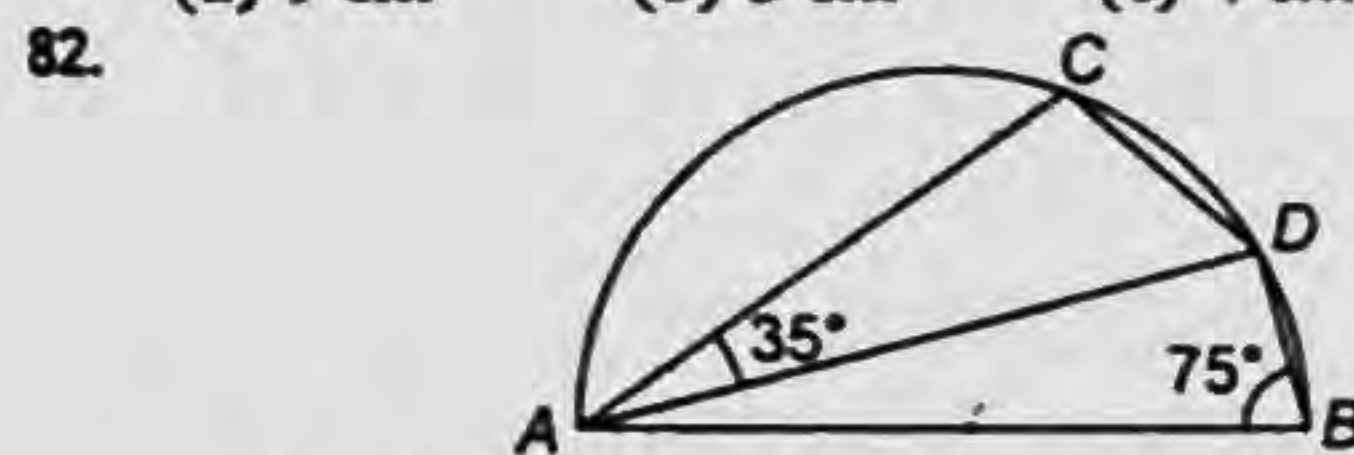
In the figure given above, BC is parallel to DE and $DE : BC = 3 : 5$. What is the ratio of area of the ΔABC to that of ΔDEA ?

- (a) 3 : 1 (b) 5 : 3
 (c) 9 : 2 (d) 25 : 9



In the figure given above, $PT = 6$ cm and $PA = 4$ cm. What is the length of AB ?

- (a) 9 cm (b) 5 cm (c) 4 cm (d) 6 cm



In the figure given above, C and D are points on the semi-circle described on AB as diameter. $\angle ABD = 75^\circ$ and $\angle BAC = 35^\circ$. What is the $\angle BDC$?

- (a) 130° (b) 110°
 (c) 90° (d) 100°



In the figure given above, the $\angle AOC$ is 100°, where O is the centre of the circle. What is the $\angle ABC$?

- (a) 100° (b) 80°
 (c) 120° (d) 130°

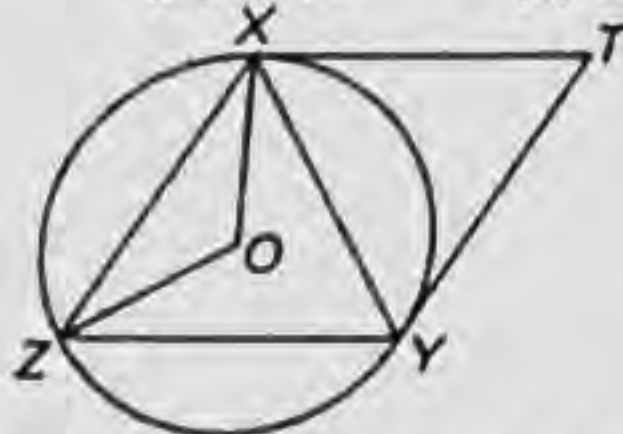
84.



In the figure given above, if $\angle AOP = 75^\circ$ and $\angle AOB = 120^\circ$, then what is $\angle AQP$?

- (a) 45° (b) 37.5° (c) 30° (d) 22.5°

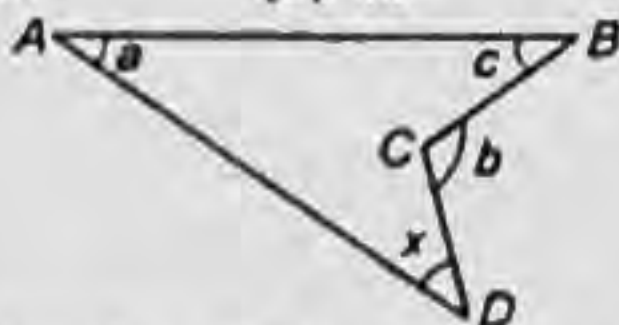
85.



In the figure given above, O is the centre of the circumcircle of the ΔXYZ . Tangents at X and Y intersect at T . If $\angle XTY = 80^\circ$, what is the value of $\angle ZXY$?

- (a) 20° (b) 40° (c) 60° (d) 70°

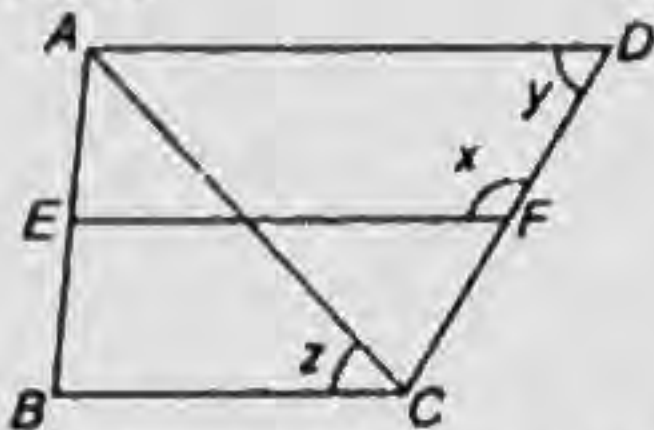
86.



What is value of x in the figure given above?

- (a) $b - a - c$ (b) $b - a + c$
(c) $b + a - c$ (d) $\pi - (a + b + c)$

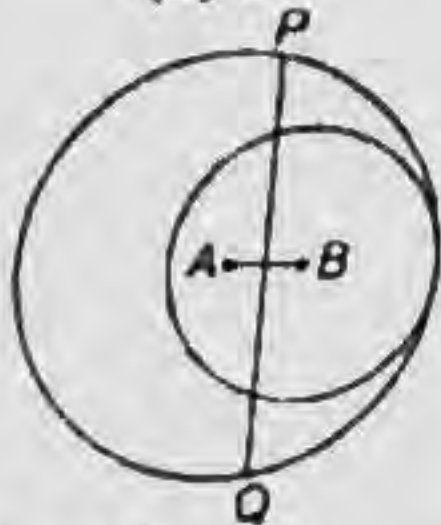
87.



$ABCD$ is a trapezium in which EF is parallel to BC . If $\angle z = 120^\circ$ and $\angle x = 50^\circ$, then what is $\angle y$?

- (a) 50° (b) 60° (c) 70° (d) 80°

88.



Two circles with centres A and B touch each other internally, as shown in the figure given above. Their radii are 5 and 3 units, respectively. Perpendicular bisector of AB meets the bigger circle in P and Q . What is the length of PQ ?

- (a) $2\sqrt{6}$ (b) $\sqrt{34}$ (c) $4\sqrt{6}$ (d) $6\sqrt{2}$

89. In a triangle ABC , the bisectors of angles ABC and ACB meet at M . Then what is the $\angle BMC$ equal to?

- (a) 90° (b) $90^\circ + \angle A$ (c) $90^\circ + \frac{1}{2} \angle A$ (d) $90^\circ - \frac{1}{2} \angle A$

90. What is the solution of the equation $\left(\frac{3x-y+1}{3}\right) = \left(\frac{2x+y+2}{5}\right) = \left(\frac{3x+2y+1}{6}\right)$?

- (a) $x = 2, y = 1$ (b) $x = 1, y = 1$
(c) $x = -1, y = -1$ (d) $x = 1, y = 2$

91. What is one of the value of x in the equation $\sqrt{\frac{x}{1-x}} + \sqrt{\frac{1-x}{x}} = \frac{13}{6}$?

- (a) $\frac{5}{13}$ (b) $\frac{7}{13}$ (c) $\frac{9}{13}$ (d) $\frac{11}{13}$

92. If the equations $2x^2 - 7x + 3 = 0$ and $4x^2 + ax - 3 = 0$ have a common root, then what is the value of a ?

- (a) -11 or 4 (b) -11 or -4
(c) 11 or -4 (d) 11 or 4

93. If one root of $px^2 + qx + r = 0$ is double of the other root, then which one of the following is correct?

- (a) $2q^2 = 9pr$ (b) $2q^2 = 9p$ (c) $4q^2 = 9r$ (d) $9q^2 = 2pr$

94. If the HCF of $x^3 + mx^2 - x + 2m$ and $x^2 + mx - 2$ is a linear polynomial, then what is the value of m ?

- (a) 1 (b) 2
(c) 3 (d) 4

95. If $(y+k)$ is the HCF of $(x^2 + ax + b)$ and $(x^2 + cx + d)$, then what is the value of k ?

- (a) $\frac{b+d}{a+c}$ (b) $\frac{b+d}{c+d}$ (c) $\frac{a-b}{c-d}$ (d) $\frac{b-d}{a-c}$

96. Which one of the following is correct?

- $a^n + b^n$ is divisible by $a - b$.
(a) for all integral values of n (b) when n is an even integer
(c) when n is an odd integer (d) for no integral value of n

97. What is the remainder when $x^{40} + 2$ is divided by $x^4 + 1$?

- (a) 1 (b) 2
(c) 3 (d) 4

98. When $(x^3 - 2x^2 + px - q)$ is divided by $(x^2 - 2x - 3)$, the remainder is $(x - 6)$. What are the values of p and q ?

- (a) -2 and -6 , respectively (b) 2 and -6 , respectively
(c) -2 and 6 , respectively (d) 2 and 6 , respectively

99. If one of the two factors of an expression which is the difference of two cubes, is $(x^2 + x^2y + y^2)$, then what is the other factor?

- (a) $x + y$ (b) $x - y$ (c) $x^2 + y$ (d) $x^2 - y$

100. Which one of the following is one of the factors of $x^2(y-z) + y^2(z-x) - z(xy-yz-zx)$?

- (a) $x - y$ (b) $x + y - z$
(c) $x - y - z$ (d) $x + y + z$