

Staff Selection Commission

Cabinet Secretariat Exam - 2013

Held on 16-06-2013

Time Allowed : 2 Hours

PAPER-I

Maximum Marks: 200

Read the following instructions carefully before you begin to answer the questions.
This Booklet contains questions in English.

INSTRUCTIONS TO CANDIDATES

1. This Booklet contains 200 questions in all comprising the following four parts :
Part-A : General English (50 Questions)
Part-B : General Studies (50 Questions)
Part-C : General Intelligence/Reasoning Ability (50 Questions)
Part-D : Numerical Aptitude (50 Questions)
2. All questions are compulsory and carry equal marks.
3. Before you start to answer the questions you must check up this Booklet and ensure that it contains all the pages (1-24) and see that no page is missing or repeated. If you find any defect in this Booklet, you must get it replaced immediately.
4. You will be supplied the Answer-Sheet separately by the Invigilator. You must complete and code the details of Name, Roll Number, Ticket Number and Test Form Number on Side-I of the Answer-Sheet carefully. You must also put your signature and Left-Hand thumb impression on the Answer-Sheet at the prescribed place before you actually start answering the questions. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark.
5. Answers must be shown by completely blackening the corresponding ovals on Side-II of the Answer-Sheet against the relevant question number by Black/Blue Ball Point Pen only. Answers which are not shown by Black/Blue Ball-point Pen will not be awarded any mark.
6. A machine will read the coded information in the OMR Answer-Sheet. In case the information is incomplete or different from the information given in the application form, such candidate will be awarded 'ZERO' mark.
7. The Answer-Sheet must be handed over to the Invigilator before you leave the Examination-Hall.
8. Failure to comply with any of the above instructions will render a candidate liable to such action / penalty as may be deemed fit.
9. The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page No. 24), which you should read carefully before actually answering the questions.
10. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
11. No rough work is to be done on the Answer-Sheet. Space for rough work has been provided below the questions in Part-C and Part-D of this Booklet.
12. "Mobile phones and wireless communication devices are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature."

PART - A
GENERAL ENGLISH

Directions : In Question Nos. 1 to 10 you have 2 (two) passages with 5 questions each. Read the passage carefully and choose the best answer to each question out of the four alternatives and mark it by blackening the appropriate oval (●) in the Answer Sheet.

Passage - I (Q. Nos. 1 to 5)

"Wisdom is knowing what to do next, skill is knowing how to do it and virtue is doing it.", observed David Starr Jordan. Most of us know what we need to do in order to live happier, healthier and more fulfilling lives. The real problem is that we don't do what we know. I have heard many motivational speakers say, "Knowledge is power." I disagree. Knowledge is not power. Knowledge is only potential power. It transforms itself into actual power the moment you decisively act on it.

The mark of a strong character lies not in doing what is fun to do or what is easy to do. The sign of deep moral authority appears in the individual who consistently does what he ought to be doing rather than what he feels like doing. A person of true character spends his days doing that which is the right thing to do. Rather than watching television for three hours after an exhausting day at work, he has the courage to get up off the couch and read to his kids. Instead of sleeping in on those cold wintry mornings, this individual exercises his natural reserves of self-discipline and gets out of bed for a run. And since action is a habit, the more positive actions you take, the more you will feel like taking.

All too often, we spend our days waiting for the ideal path to appear in front of us. We forget that paths are made by walking, not waiting. Dreaming is great. But thinking big thoughts alone will not build a business, pay your bills or make you into the person you know in your heart you can be. In the words of Thomas Carlyle, "The end of man is an action and not a thought, though it were the noblest." The smallest of actions is always better than the boldest of intentions.

1. What, according to the author, is the real problem?
(A) That we do not do what we know.
(B) That we think we know more than the others and we know everything.
(C) That we dally between the knowable and the unknowable.
(D) That we give up on something that is difficult to be understood, deeming it unknowable.
2. Which kind of individual seems to be full of moral authority?
(A) One who follows his heart and does not listen to others.
(B) One who is obedient and moves according to established social norms.
(C) One who continues to do what is required of him instead of acting according to his desires.
(D) He who is strict and manages his tasks very well and loves the work he has to do.
3. Why should action ideally become a habit?
(A) Because the more we act, more we will feel like undertaking positive actions.
(B) Because the good and bad actions consistently alternate and follow to repeat themselves.
(C) Because the more we benefit from an action (irrespective of its nature), the more we want to repeat it.
(D) Because the smallest of actions can have the strongest and greatest of repercussions.
4. How does the author view knowledge?
(A) As actual power; that which helps one to know more.
(B) Not as power, but as potential power that can be changed into real power if we act on it.
(C) As something that is futile without actual power.
(D) As something that shows you what can be done and what cannot be done.

5. How has the futility of waiting been explained to us ?
- (A) That we wait for the right moment and when it comes, the first person grabs it and deprives others.
 - (B) That opportunities arrive, but waiting having made us lazy, we lose the available opportunity.
 - (C) We wait and when frustrated, take a hasty decision and regret thereafter.
 - (D) Most times we wait for the best way or opportunity to arrive but we forget that if we wait, we will never achieve our goal.

Passage – II (Q. Nos. 6 to 10)

An eco warrior is a person who engages in some sort of activity to save the ecology or environment. The word was coined in the 1990s by the British media. All over the world there have been groups of people who sound the alarm bells when environment is struck indiscriminately. Eco warriors have a flag that is used internationally. It has a green background with red oval shape in the centre. In the middle of this are three yellow coloured sticks tied to form a tripod.

You too can be an eco warrior by adopting simple activities like bird watching or tree hugging. Gather your friends and form an Eco Warriors club. Get the exact reference of the flag from the internet and make flags or badges for everyone in the club.

Make sure everyone wears them to all meetings. Have a meeting once every two weeks. Keep a notebook and pen for taking notes and setting goals. Elect a leader for the Club.

To help you get started with your club activities, here's a bit of history for inspiration. Our very own eco warriors came to light with the Chipko movement of the 1970s. It was a historic event that took place in present day Uttarakhand, to exercise the right over forests. The women

farmers of village Reni, in Chamoli district hugged trees to protest against the deforestation of the Garhwali forests.

These days tree cutting is such a common sight – for road widening and building of flyovers and urban rail transport systems. If you are witnessing this in your area, meet your area's welfare association and insist that the authorities plant an equal number of trees in the locality wherever possible to make up for the trees that have been cut. Take it upon yourself to see that these trees are watered regularly and nurtured well till they grow.

6. The word was coined in the 21st century by the British media.
- (A) True (B) False
 - (C) Partially true (D) Ambiguous
7. The simple activities adopted normally by an eco warrior are
- (A) internet browsing
 - (B) bird watching, tree hugging
 - (C) forming a club
 - (D) forming a club and internet browsing
8. They hugged trees to
- (A) show their love for trees and animals
 - (B) show their protest
 - (C) protest against deforestation
 - (D) protest against afforestation
9. Chipko movement and eco warriors have one and the same motto. Which is nearest in meaning ?
- (A) The eco warriors came to light because of Chipko movement.
 - (B) Both strive for saving the environment.
 - (C) They focus on saving trees in the cities only.
 - (D) The forest is saved by the eco warriors only.
10. Who is an 'eco warrior' ?
- (A) Fighter
 - (B) Enemy of environment
 - (C) Saver of ecology
 - (D) Hater of pollution

Directions : In Question Nos. 11 to 15, some part of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacken the oval (●) corresponding to the appropriate letter (A, B, C). If a sentence is free from errors, blacken the oval corresponding to (D) in the Answer Sheet.

11. My sister and myself / are pleased
(A) (B)
to accept / your invitation to dinner. /
(C)
No error
(D)
12. We have made plans / to go very
(A) (B)
recently / to Delhi and Agra. /
(C)
No error
(D)
13. He is / too foolish / that he will not act.
(A) (B) (C)
No error
(D)
14. He is too much worried / about his
(A) (B)
friend's reaction / to his statement. /
(C)
No error
(D)
15. It upset him / at seeing his son /
(A) (B)
in such pain. / No error
(C) (D)

Directions : In Question Nos. 16 to 20 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 and mark it in the Answer Sheet.

16. Not until a monkey is several years old _____ to exhibit signs of independence from its mother.
(A) it begins
(B) does it begin
(C) beginning
(D) and begins
17. When asked if he wanted to plead guilty, the accused replied _____.
(A) in the appropriate way
(B) in an irrelevant way
(C) in the affirmative
(D) monotonously
18. I could not make _____ what he had said.
(A) up (B) out
(C) away (D) sense
19. Rahim went cycling _____ it was raining.
(A) in spite of (B) although /
(C) despite (D) since
20. The new general manager was able to break the labour-management _____.
(A) impasse
(B) impossibility
(C) impersonation
(D) improvisation

Directions : In Question Nos. 21 to 25 out of the four alternatives, choose the one which best express the meaning of the given word and mark it in the Answer Sheet.

21. Insidious
(A) Honest (B) Deceitful
(C) Angry (D) Insane
22. Mundane
(A) Normal (B) Ordinary
(C) Gullible (D) Mandatory
23. Scepticism
(A) Doubt (B) Bigotry
(C) Belief (D) Religion
24. Withstand
(A) Accept (B) Submit
(C) Endure (D) Relinquish
25. Conciliatory
(A) Foolish (B) Soothing
(C) Advisory (D) Cordial

Directions : In Question Nos. 26 to 30 choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

26. Cordial
(A) Unfriendly (B) Sweet
(C) Cold (D) Frigid
27. Exploit
(A) Expose (B) Utilise
(C) Victimise (D) Pamper
28. Acrimonious
(A) Devious (B) Genial
(C) Callous (D) Benevolent
29. Contemporary
(A) Ancient
(B) Contemptuous
(C) New
(D) Conventional
30. Exonerate
(A) Exculpate (B) Discharge
(C) Charge (D) Admit

Directions : In Question Nos. 31 to 35, four alternatives are given for the Idiom/phrase underlined sentence. Choose the alternative which best express the meaning of the idiom/phrase and mark it in the Answer Book.

31. I only passed the examination by the skin of my teeth.
(A) by a narrow margin
(B) by sheer hard work
(C) by strong will power
(D) by absolute luck
32. Instead of stopping the work, we decided to go the whole hog.
(A) to eat something while working.
(B) to do something different.
(C) to go somewhere far away.
(D) to do the work completely or thoroughly.
33. Before my oral examinations, I had butterflies in my stomach.
(A) became carefree
(B) became confident
(C) became irritated
(D) became nervous
34. Due to the delay caused by the monsoon rains, they had to work against time.
(A) go against the prescribed method.
(B) work as fast as possible.
(C) work in an old-fashioned way.
(D) work lazily.
35. He left the place in high dudgeon.
(A) in a state of great resentment
(B) in a state of great depression
(C) in a state of great jubilation
(D) in a state of great anguish

Directions : In Question Nos. 36 to 40 a part of the sentence is underlined. Below are given alternatives to the underlined part A, B and C which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is 'D'.

36. Not a flower nor even a thorn in the bush were seen in that arid spot.
(A) being seen
(B) was seen
(C) had being seen
(D) No improvement
37. The activities of the club in the neighbourhood remained limited only to games and sports.
(A) limited only to
(B) remained to
(C) remained limited to
(D) No improvement
38. When you are dismissed from job, it does not help to throw up row.
(A) kick up row
(B) kick up a row
(C) kick a row
(D) No improvement
39. You can learn the principles of government from a reading of history.
(A) a study of history
(B) a view of history
(C) a glimpses of history
(D) No improvement
40. Did you hear the last news that is doing the rounds in the political circle?
(A) later news
(B) latter news
(C) latest news
(D) No improvement

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Directions : In Question Nos. 41 to 45, out of the four alternatives choose the one which can be substituted for the given sentence.

41. A raised place on which offerings to God are made
(A) Mound (B) Chapel
(C) Altar (D) Archive
42. Undue favour shown by a person in power to his friends and relatives
(A) Criticism (B) Despotism
(C) Nepotism (D) Witticism
43. An area controlled by a foreign ruler
(A) Province (B) State
(C) Colony (D) Dominion
44. A person who lives for pleasure
(A) Hedonist
(B) Materialist
(C) Atheist
(D) Philanthropist
45. Loss of memory
(A) Dementia (B) Oblivion
(C) Nostalgia (D) Amnesia

Directions : In Question Nos. 46 to 50 group of four words are given. In each group one word is correctly spelt. Find the correctly spelt word and mark it in the Answer Sheet.

46. (A) lackadisal (B) lacadisal
(C) lackadaisical (D) lackadiasical
47. (A) galary (B) galery
(C) gallary (D) gallery
48. (A) presumptuous
(B) prisumptuous
(C) persumptuous
(D) presumtuous
49. (A) appaling (B) appalling
(C) apaling (D) apalling
50. (A) motos (B) mottoos
(C) mottoes (D) motoess

PART - B
GENERAL STUDIES

51. Ardha Satya – a Hindi film was directed by
(A) Govind Nihlani
(B) Nandita Das
(C) Guru Dutt
(D) Satyajit Ray
52. The "3-State Red Corridor" a safe passage is known for the activity of Maoest's. These States are
(A) Chhattisgarh, Odisha and Jharkhand
(B) Chhattisgarh, Jharkhand and Madhya Pradesh
(C) Chhattisgarh, Bihar and Uttar Pradesh
(D) Chhattisgarh, West Bengal and Bihar
53. Shamshad Begum one of the first playback singers in Hindi film industry died at the age of
(A) 74 years
(B) 84 years
(C) 94 years
(D) 104 years
54. A normal medium sized washing machine used in household use electricity :
(A) 500 Watts
(B) 600 Watts
(C) 800 Watts
(D) 1000 Watts
55. Rex-Bionics – a New Zealand based firm has developed robotic legs to
(A) walk and talk up to hrs.
(B) walk and stand for rest
(C) walk and sit for rest
(D) walk, stand, turn and climb
56. DBT as coined by UPA-2 Government recently stands for
(A) Department of Biotechnology
(B) Database on Bengal Tigers
(C) Direct Benefit Transfer
(D) Development of Biofuel Technologies
57. Ricinin is a deadly poison to the human being and has no known antidote so far. It is found in
(A) Pea nut
(B) Castor bean
(C) Datura seed
(D) Sorghum shoot
58. High blood pressure can be managed by eating fishes like Herring, Mackerels and Solomon which are rich in
(A) Good cholesterol
(B) Sodium salt
(C) Potassium salt
(D) Omega-3
59. Which one of the following is not correctly matched ?
(A) Line of Actual – China-India Control (LAC)
(B) Line of Control – Pakistan-India
(C) Ancient Trade – Ladakh-Route (ATR) – Yarkand
(D) Indus Water – India-Treaty (IWT) – Bangladesh
60. Sextant is used to measure
(A) weight of an object
(B) height of an object
(C) length of an object
(D) efficiency of sex diagnosis

61. Which one of the following is not included in the foreign-exchange reserves of India ?
- (A) Foreign-currency assets held by the RBI
 - (B) Gold holding of the RBI
 - (C) Silver holding of the RBI
 - (D) SDRs
62. The number of workers who would offer themselves for employment at different wage rates is known as
- (A) Labour Market
 - (B) Demand for Labour
 - (C) Supply of Labour
 - (D) Surplus Labourers
63. Which one of the following is not a factor of production ?
- (A) Land
 - (B) Organization
 - (C) Capital
 - (D) Technology
64. As income increases the demand for inferior goods
- (A) increases
 - (B) remains constant
 - (C) fluctuates
 - (D) decreases
65. The headquarters of RBI is in _____
- (A) Delhi
 - (B) Kanpur
 - (C) Mumbai
 - (D) Nasik
66. The Government of India Act of 1935 was the outcome of
- (A) 'First Round Table Conference'
 - (B) 'Second Round Table Conference'
 - (C) 'Third Round Table Conference'
 - (D) 'Communal Award'
67. The Lokayukta and Upalokayukta Act was first passed in
- (A) Maharashtra
 - (B) West Bengal
 - (C) Karnataka
 - (D) Odisha
68. Who said, "Socialism is like a hat that has lost its shape because everybody wears it" ?
- (A) C.E.M. Joad
 - (B) Karl Marx
 - (C) V.I. Lenin
 - (D) H.J. Laski
69. Who supported the principle of "survival of the fittest" ?
- (A) The Utilitarians
 - (B) The Socialists
 - (C) The Individualists
 - (D) The Fascists
70. Quo-warranto means
- (A) without authority
 - (B) with what authority
 - (C) a warrant
 - (D) petition

71. Nishka, a type of coin was used during _____ period.
- (A) Guptas
 - (B) Bahmanis
 - (C) Pallavas
 - (D) Vedic
72. The King who called himself Devanampriya and 'Priyadarshi' was
- (A) Bindusara
 - (B) Bimbisara
 - (C) Ashoka
 - (D) Harshavardhana
73. Sher Shah became the Emperor of Delhi after defeating Humayun in the battle of
- (A) Kannauj
 - (B) Khanva
 - (C) Goghra
 - (D) Panipat
74. Who among the following Bhakti saints has been regarded by his follower as an incarnation of Vishnu ?
- (A) Chaitanya
 - (B) Namdev
 - (C) Ramananda
 - (D) Ramanuja
75. One of the most controversial projects of Muhammad-bin-Tughlaq was
- (A) Market Control
 - (B) Iqta System
 - (C) friendship with the Mongols
 - (D) introduction of token currency
76. Where is the Coral Sea located ?
- (A) Eastern part of Carribean Sea
 - (B) North-Eastern part of Australia
 - (C) Western part of Europe
 - (D) Western part of North America
77. The capacity of rock to allow water to pass through is called
- (A) Permeability
 - (B) Jointing
 - (C) Hardness
 - (D) Porosity
78. Which of the following is called the Land of Ten Thousand Lakes ?
- (A) Finland
 - (B) Minnesota (USA)
 - (C) Canada
 - (D) India
79. The region best known for the production of grapes is
- (A) Tropical
 - (B) Equatorial
 - (C) Mediterranean
 - (D) Monsoon
80. Which one of the following is not a Biosphere Reserve ?
- (A) Gulf of Mannar
 - (B) Nilgiris
 - (C) Sunderbans
 - (D) Kaziranga

81. Which one of the virus was crystallized for the first time ?
(A) Parrot fever virus
(B) Smallpox virus
(C) TMV
(D) HIV
82. Tortoise lives usually for
(A) 40 years
(B) 100 years
(C) 200 years
(D) 400 years
83. A dead and protective animal structure is
(A) Feathers
(B) Nails and claws
(C) Skin surface
(D) All the above
84. Urobiology deals with
(A) preservation of dead animals
(B) urinary system
(C) genital system
(D) urino-genital system
85. The term 'ecology' was coined by
(A) Haeckel
(B) Odum
(C) Darwin
(D) Linnaeus
86. When sound travels from air to water the quantity that remains unchanged is
(A) speed
(B) frequency
(C) intensity
(D) wavelength
87. A leaf appears green in daylight. When seen in red light it appears to be
(A) red
(B) green
(C) black
(D) white
88. Which of the following properties shows that light is a transverse wave ?
(A) Reflection
(B) Interference
(C) Diffraction
(D) Polarisation
89. The subject of Data warehousing is related to _____.
(A) Compilers
(B) Networks
(C) Internet
(D) Databases
90. Scanning Electron Microscope produces images, which are
(A) big and sharp
(B) two-dimensional
(C) three dimensional
(D) cytological details

91. Which of the following is not a valid network topology ?
- (A) Star topology
 - (B) Ring topology
 - (C) Bus topology
 - (D) Grid topology
92. An aerosol is a colloidal system of a
- (A) liquid dispersed in a liquid
 - (B) liquid dispersed in a solid
 - (C) gas dispersed in a liquid
 - (D) solid dispersed in a gas
93. Food cans are coated with Tin and not Zinc because
- (A) Zinc is costlier than Tin.
 - (B) Zinc has a higher melting point than Tin.
 - (C) Zinc is more reactive than Tin.
 - (D) Zinc is less reactive than Tin.
94. An antigen develops antibodies. The antibodies which protect the body from their harmful effects are
- (A) Immunoglobulins
 - (B) Phospholipids
 - (C) Albumins
 - (D) Lymphocytes
95. The shifting of a program from one of the memory addresses to another is
- (A) Data transmission
 - (B) Data collection
 - (C) Relocation
 - (D) Database
96. The theme for 2012 World Environment Day was
- (A) Green Buildings
 - (B) Green Pesticides
 - (C) Evergreen Revolution
 - (D) Green Economy
97. Hygrometer is used for measuring the
- (A) relative humidity
 - (B) discharge rate of water
 - (C) tidal waves
 - (D) speed of water run-off
98. Biogas produced by the fermentation of animal dung, human sewage or crop residues in an airtight container is rich in
- (A) Propane
 - (B) Butane
 - (C) Methane
 - (D) Carbon dioxide
99. Iran earthquake having epicentre of 7.8 magnitude rattled Delhi on 16th April 2013. However, more human casualties were reported from
- (A) Pakistan
 - (B) Iran
 - (C) Dubai
 - (D) North-Eastern India
100. Peptide bond is a key feature in
- (A) Polysaccharides
 - (B) Proteins
 - (C) Nucleotide
 - (D) Nucleic acid

PART - C
GENERAL INTELLIGENCE / REASONING ABILITY

Directions : In Question Nos. 101 and 102, statement(s) is/are given followed by two/four conclusions I, II, III and IV. You have to consider the statement(s) to be true even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusions, if any, follow from the given statement(s). Indicate your answer.

101. Statements I : Ankit is a singer.
II : All the singers are fat.

Conclusions I : Ankit is fat.
II : All fat men are singers.
III : Fat men are not singers.
IV : Ankit is not fat.

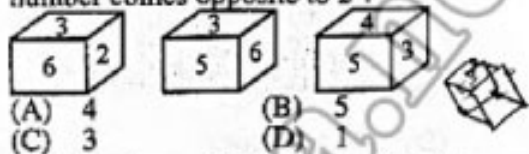
- (A) Only conclusion I follows.
- (B) Only conclusion II follows.
- (C) Only conclusion III follows.
- (D) Only conclusion IV follows.

102. Statement : Animals live on oxygen.

Conclusions I : Plants do not live on oxygen.
II : Anything that needs oxygen is bound to be animal.

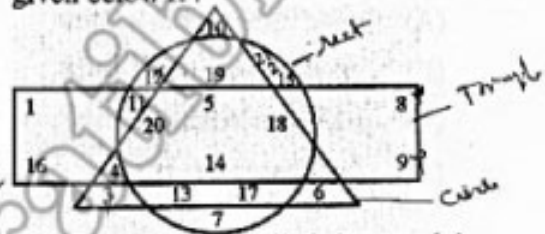
- (A) Only conclusion I follows.
- (B) Only conclusion II follows.
- (C) Both conclusions I and II follow.
- (D) Neither conclusion I nor II follows.

103. Study the 3 different positions of a cube given below and answer what number comes opposite to 2 ?



- (A) 4
- (B) 5
- (C) 3
- (D) 1

104. Study the following diagram consisting of a circle, a rectangle and a triangle and answer the question given below it :



If the 'circle' is called 'rectangle', 'rectangle' is called 'triangle' and 'triangle' is called 'circle', which number is only in the 'rectangle' but not in the other two diagrams ?

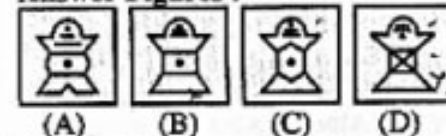
- (A) 8
- (B) 12
- (C) 3
- (D) 9

105. Among the four answer figures, which figure can be formed from the cut-pieces given below in the question figure.

Question Figure :



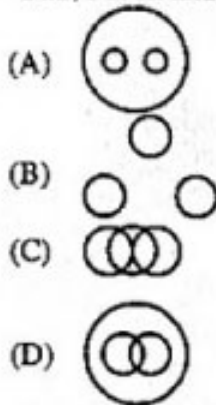
Answer Figures :



SPACE FOR ROUGH WORK

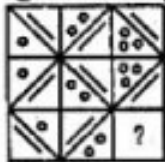
- (C) Darwin
- (D) Linnaeus

106. The figure that best represents interrelationship among "Star, Moon and Mars".

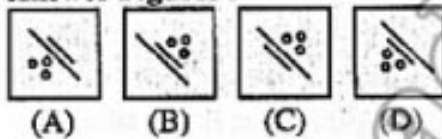


Directions : In Question Nos. 107 and 108 which answer figure will complete the pattern in the question figure ?

107. Question Figure :



Answer Figures :



108. Question Figure :

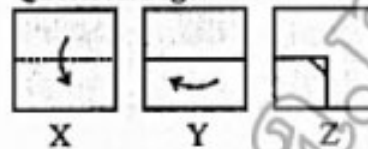


Answer Figures :

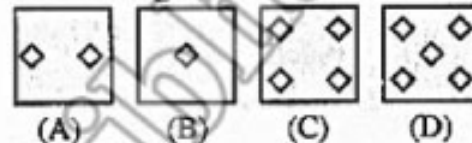


109. A piece of paper is folded and cutting/punching is done as shown below in the question figures. From the given answer figures indicate how it will appear when opened ?

Question Figures :



Answer Figures :

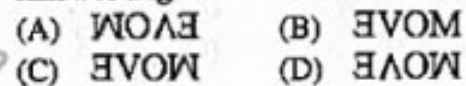


110. Which of the answer figure is exactly the mirror image of the given figure ?

Question Figure :

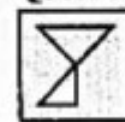
MOVE

Answer Figures :

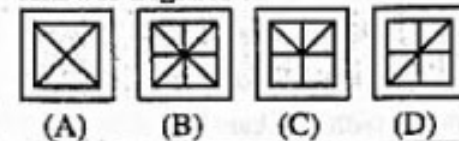


111. From the given answer figures, select the one in which the question figure is hidden / embedded.

Question Figure :



Answer Figures :



SPACE FOR ROUGH WORK

Directions : In Question Nos. 112 to 120, select the related word/letters/number from the given alternatives.

112. Hoogly : Jute :: Ahmedabad : ?

- (A) Cotton (B) Coffee
(C) Tea (D) Wheat

113. Rain : Agriculture :: Market : ?

- (A) Production
(B) Economy
(C) Cultivation
(D) Industrialisation

114. AZ : BY :: DW : ?

- (A) EV (B) CX
(C) EX (D) CV

115. ABC : XYZ :: DEF : ?

- (A) UVW (B) PQR
(C) HIJ (D) KLM

116. FEDCBA : RQPONM :: LKJIHG : ?

- (A) ABCDEF (B) MNOPQR
(C) STUVWX (D) XWVUTS

117. Chipko Movement : Sundarlal Bahuguna :: Narmada Bachao Andolan : ?

- (A) Vinoba Bhave
(B) R.N. Pachauri
(C) Pattabhi Sitarmaiah
(D) Medha Patkar

118. 29 : 319 :: 23 : ?

- (A) 252 (B) 115
(C) 46 (D) 151

119. 18 : 30 :: 36 : ?

- (A) 54 (B) 62
(C) 64 (D) 66

120. 17 : 4 :: 37 : ?

- (A) 5 (B) 6
(C) 7 (D) 8

Directions : In Question Nos. 121 to 129, select the one which is different from the other three responses.

121. (A) Maharashtra : Mumbai

(B) Karnataka : Bengaluru

(C) Rajasthan : Jaisalmer

(D) Meghalaya : Shillong

122. (A) Right to Equality

(B) Right to Freedom of Religion

(C) Right to Study

(D) Right against Exploitation

123. (A) BD (B) GI

(C) PN (D) WY

124. (A) Lieutenant General

(B) Major

(C) Colonel

(D) Commodore

SPACE FOR ROUGH WORK

125. (A) DW (B) JQ
(C) HT (D) FU
126. (A) (40, 70) (B) (27, 10)
(C) (16, 13) (D) (32, 33)
127. (A) (17, 71) (B) (23, 32)
(C) (19, 90) (D) (46, 64)
128. (A) 14 - 133 (B) 18 - 171
(C) 22 - 211 (D) 34 - 323
129. (A) ZX (B) TR
(C) IF (D) OM

130. Which one of the given responses would be a meaningful order of the following words in ascending order?

1. Take action
 2. Collect data
 3. Select problem
 4. Analyse and Interpret data
- (A) 1, 2, 3, 4 (B) 2, 3, 4, 1
(C) 1, 3, 4, 2 (D) 3, 2, 4, 1

Directions : In Question Nos. 131 & 132, which one of the given responses would be a meaningful order of the following?

131. 1. Infancy 2. Adult
3. Puberty 4. Childhood
(A) 1, 2, 3, 4 (B) 1, 4, 2, 3
(C) 1, 3, 4, 2 (D) 1, 4, 3, 2
132. 1. Fruit 2. Pollen
3. Corolla 4. Stamen
(A) 2, 4, 3, 1 (B) 2, 3, 4, 1
(C) 3, 1, 4, 2 (D) 2, 1, 3, 4

Directions : In Question Nos. 133 & 134, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

133. r₁StUr₂S₃Urr₄tUrrS₅U

- (A) rStUU (B) rrStS
(C) rrtSt (D) SSttU

134. ^aab^b₁^a₂^abb^a₃^a₄bb^a₅^b

- (A) abbbab (B) babbba
(C) bbaabb (D) abaaab

Directions : In Question Nos. 135 to 138, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

135. CZA, GYE, KXI, ?

- (A) NWL (B) ONM
(C) OMW (D) OWM

136. 1, 3, 5, 7, ?, 13

- (A) 9 (B) 11
(C) 8 (D) 12

137. 1, 2, 5, 10, 17, ?

- (A) 19 (B) 21
(C) 25 (D) 26

138. 125, 80, 45, 20, ?

- (A) 8 (B) 12
(C) 10 (D) 5

SPACE FOR ROUGH WORK

139. A frog in the well jumps every day 3 ft. up. But it slides down by 2 ft. How many days it will take the frog to come out of the well if the well is 30 ft. deep ?

- (A) 30 (B) 28
(C) 27 (D) 10

140. A group of alphabets are given with each being assigned a number. These have to be unscrambled into a meaningful word and correct order of letters may be indicated from the given responses :

N G O A R E

1 2 3 4 5 6

- (A) 2, 4, 1, 3, 6, 5
(B) 3, 5, 4, 1, 2, 6
(C) 3, 1, 2, 4, 5, 6
(D) 1, 3, 5, 2, 4, 6

141. The average of 6 numbers is 40. If each of the first three numbers is increased by 4 and each of the remaining three numbers is decreased by 6, then the new average is

- (A) 36 (B) 30
(C) 39 (D) 42

142. If KNOWLEDGE is written as ONKELWEGD, then how EDUCATION be written in the same code ?

- (A) UDETACNOI
(B) NOITACUDE
(C) ACUDENOIT
(D) UDECATNOI

143. Which of the following interchange of signs or numbers would make the given equation correct ?

$$(18 + 9) + 3 \times 5 = 45$$

- (A) $\times +$
(B) $++$
(C) 18 and 5
(D) 3 and 9

144. If in a certain code, PSYCHOLOGY is written as BMKNQDJDFK, then how GEOGRAPHY can be written in that code ?

- (A) QKFXZTQBT
(B) FDXZTQBKF
(C) FXDFZTBQK
(D) FDXZTBQKL

SPACE FOR ROUGH WORK

145. If $3454 = 5$ and

$2332 = 5$, then

$5245 = ?$

- (A) 5
- (B) 10
- (C) 7
- (D) 8

146. Select the missing symbol from the given order :

□ ○ W Δ | □ ○ W Δ | □ ○ ?

- (A) □
- (B) Δ
- (C) ○
- (D) W

147. If $52 + 26 + 38 = 46$

and $24 + 36 + 52 = 36$,

then $79 + 55 + 28 = ?$

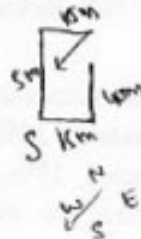
- (A) 104
- (B) 200
- (C) 198
- (D) 176

148. While the group photo of a family was taken, the father was found to be sitting to the left of the son and right to the grandfather. Mother was sitting to the right of her daughter but left to the grandfather. Who is occupying the central place ?

- (A) Son
- (B) Grandfather
- (C) Father
- (D) Mother

149. Sumi ran a distance of 40 m towards the South. She then turned to the right and ran for about 15 m, turned right again and ran 50 m. Turning to right then ran for 15 m. Finally she turned to the left an angle of 45° and ran. In which direction was she running finally ?

- (A) South-East
- (B) South-West
- (C) North-East
- (D) North-West



150. Select the missing number from the given matrix :

10	12	14
03	04	04
06	06	06
36	54	?

- (A) 60
- (B) 61
- (C) 62
- (D) 63

SPACE FOR ROUGH WORK

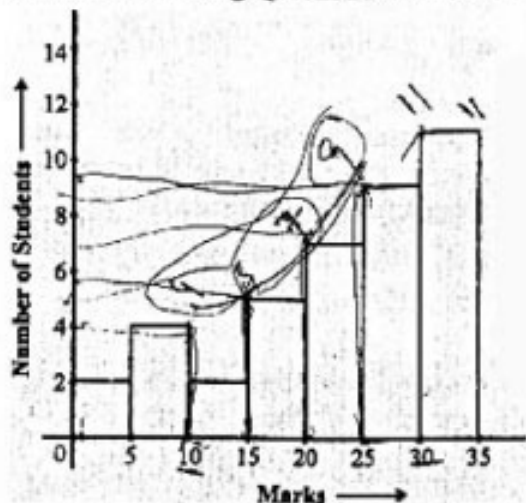
PART - D

NUMERICAL APTITUDE

151. A refrigerator is available for ₹ 9,200 inclusive of sales tax. If the rate of tax is 15%, find the list price of the refrigerator.
(A) ₹ 8,000 (B) ₹ 9,000
(C) ₹ 10,000 (D) ₹ 10,580
152. The length of a rectangle is decreased by 10% and the width is increased by 20%. Find the percentage of increase or decrease in the area.
(A) 10% decrease
(B) 8% decrease
(C) 8% increase
(D) 18% increase
153. If the numerator of a fraction is decreased 25% and denominator increased 25%, then the difference between the resulting and original fractions represent what % decrease?
(A) 40% (B) 45%
(C) 50% (D) 60%
154. When a number is decreased by 12%, it becomes 110. What is the number?
(A) 125 (B) 88
(C) 150 (D) 220
155. A student walks from his house at 4 km/hr and reaches his school 5 min too late. If his speed had been 5 km/hr, he would have reached 10 min too early. The distance of the school from his house is
(A) $\frac{5}{3}$ km (B) $\frac{5}{27}$ km
(C) 5 km (D) $\frac{5}{9}$ km
156. A man borrows ₹ 2,000 at 10% compound interest. If he repays ₹ 500 at the end of each year, then the amount of loan outstanding at the beginning of the third year is equal to
(A) ₹ 1,300 (B) ₹ 1,340
(C) ₹ 1,370 (D) ₹ 1,400
157. A sum of money lent at compound interest for 2 years at 20% per annum would fetch ₹ 723 more, if the interest was payable half-yearly than if it was payable annually. The sum is
(A) ₹ 38,000 (B) ₹ 30,000
(C) ₹ 20,000 (D) ₹ 25,000
158. A train 240 m long, travelling at 90 km/hr overtakes another train travelling in the same direction at 72 km/hr and passes it completely in 80 seconds. The length of the second train in metres is
(A) 160 (B) 400
(C) 248 (D) 180

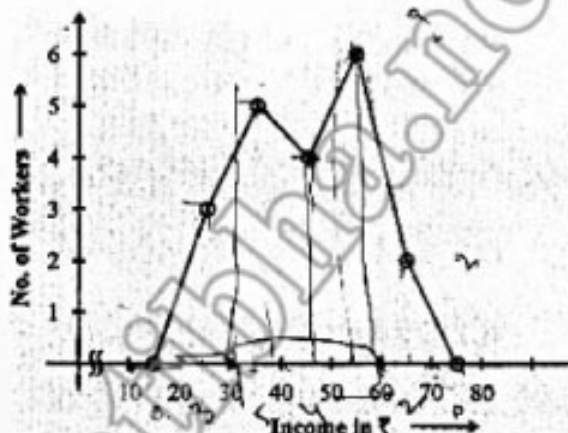
SPACE FOR ROUGH WORK

Directions [Q. Nos. 159-162]: The following figure shows a histogram depicting the marks obtained by 40 students of class IX in a test on Mathematics. Examine the histogram and answer the following Question Nos. 159 to 162.



159. The number of students obtained 25 or more marks but less than 30 is
 (A) 00 (B) 20
 (C) 09 (D) 11
160. If a particular grade is equal to 25 or more marks, then the percentage of students attaining that grade is
 (A) 27.5% (B) 22.5%
 (C) 67.5% (D) 50.0%
161. How many students obtained 10 or more marks but less than 30 marks?
 (A) 16 (B) 21
 (C) 14 (D) 23
162. The percentage of the number of students obtained less than 10 marks, is
 (A) 15% (B) 10%
 (C) 5% (D) 2.5%

Directions [Q. Nos. 163-165]: Weekly income (in rupees) of 20 workers are given below in the frequency polygon. Answer the following Question Nos. 163 to 165 based on this chart.



163. In which income group minimum workers (other than zero) are there?
 (A) 20-30 (B) 10-20
 (C) 60-70 (D) 70-80
164. The total number of workers in 30 to 60 income groups are
 (A) 11 (B) 15
 (C) 10 (D) 17
165. In which income group maximum number of workers are there?
 (A) 50-60 (B) 60-70
 (C) 30-40 (D) 40-50
166. The mode of the given data
 72, 70, 72, 70, 72, 68, 66, 65, 70, 72
 (A) 72 (B) 70
 (C) 68 (D) 66

SPACE FOR ROUGH WORK

167. $\frac{3}{4}$ part of a tank was full of oil. After 48 litres oil was taken out, $\frac{1}{2}$ of the tank was still full. The total capacity of the tank is
 (A) 72 litres (B) 192 litres
 (C) 160 litres (D) 112 litres

168. Simplify : $\left\{ \left(3\frac{2}{5} + 2\frac{5}{6} \right) + 6\frac{4}{5} \right\} + \frac{5}{34}$
 (A) $\frac{2}{3}$ (B) $1\frac{2}{3}$
 (C) $1\frac{1}{5}$ (D) $\frac{5}{6}$

169. The value of $10.5 - [6.5 - (3.3 - (3.2 - 2.2 - 1.8))]$ is
 (A) 2 (B) 3.2
 (C) 4.5 (D) 5.3

170. If both the numerator and denominator of a proper fraction are increased by 1, it becomes $\frac{2}{3}$; then the fraction is
 (A) $\frac{3}{2}$ (B) $\frac{1}{2}$
 (C) $\frac{1}{4}$ (D) $\frac{3}{4}$

171. The least number by which $5 \times 15 \times 13 \times 26$ should be multiplied to make it a perfect square is
 (A) 5 (B) 4
 (C) 3 (D) 6

172. The value of

$$\frac{\sqrt{2}(\sqrt{3}+1)(2-\sqrt{3})}{(\sqrt{2}-1)(3\sqrt{3}-5)(2+\sqrt{2})}$$

(A) 1 (B) $2-\sqrt{3}$
 (C) $2+\sqrt{3}$ (D) $\sqrt{3}-2$

173. The least number which when divided by 21, 24, and 28 leaves the remainder 2 in each case is
 (A) 166 (B) 170
 (C) 168 (D) 164

174. If $\sqrt{1369} = 37$, then find the value of $\sqrt{13.69} + \sqrt{.1369} + \sqrt{.001369}$.
 (A) 4.107 (B) 3.107
 (C) 5.107 (D) 6.107

175. The smallest among the numbers $\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{3}}, \frac{1}{\sqrt{5}}, \frac{1}{\sqrt{10}}$ is
 (A) $\frac{1}{\sqrt{10}}$ (B) $\frac{1}{\sqrt{5}}$
 (C) $\frac{1}{\sqrt{3}}$ (D) $\frac{1}{\sqrt{2}}$

176. Observe the following pattern :
 $2, 6, 12, 20, \dots$
 The fifth term in the above sequence is
 (A) 42 (B) 32
 (C) 28 (D) 30

SPACE FOR ROUGH WORK

177. 3 men and 4 women can do a work in 16 days but 4 men and 3 women can do the same work in 12 days. Then the time required to do the same work by 1 man and 1 woman is (in days)

- (A) 24 (B) 48
(C) 36 (D) 42

178. A and B can do a piece of work in 10 and 6 days respectively. After they have worked together for 3 days, both of them left and C arrived and completed the rest of the work in 2 days. C can alone complete the same work in

- (A) 6 days (B) 8 days
(C) 10 days (D) 16 days

179. A can do a piece of work in 5 days, B can do it in 10 days and C can do it in 30 days. They together can do the whole work in

- (A) 5 days (B) 3 days
(C) 10 days (D) 15 days

180. 16 men can complete a work in 12 days. They worked for 4 days. To finish the remaining work in 4 days, how many additional men are required?

- (A) 12 (B) 16
(C) 18 (D) 14

181. The area of a quadrilateral ABCD is 35 sq. cm. The length of the diagonal AC is 10 cm. Then, the sum of the perpendicular distances of the vertices B and D from AC is

- (A) 7 cm (B) 1.4 cm
(C) 3.5 cm (D) 1.75 cm

182. If A is the area and C the circumference of a circle, then an expression for A in terms of C is

- (A) $\frac{C^2}{4\pi^2}$ (B) 2C
(C) 2C π (D) $\frac{C^2}{4\pi}$

183. The length, breadth and height of a room are equal. If the area of the four walls be 100 sq. m, then the volume of the room in cubic metre is

- (A) 100 (B) 125
(C) 625 (D) 1000

184. A cone is 14.4 cm. high and the radius of its base is 3.6 cm. It is melted and recast into a sphere. The radius of the sphere is

- (A) 3.0 cm (B) 3.2 cm
(C) 3.5 cm (D) 3.6 cm

SPACE FOR ROUGH WORK

185. A merchant purchases a wrist watch for ₹ 450 and fixes its list price in such a way that after allowing a discount of 10% he earns a profit of 20%. the list price of the wrist watch is

- (A) ₹ 480 (B) ₹ 500
(C) ₹ 300 (D) ₹ 600

186. A dealer allows a discount of 10% on the marked price. Then again a discount of 20% is allowed. Find a single discount equivalent to the above discounts.

- (A) 35% (B) 33%
(C) 25% (D) 28%

187. A dealer buys an article for ₹ 380. At what price must the dealer mark it so that after allowing a discount of 5%, he still makes a profit of 25% ?

- (A) ₹ 500 (B) ₹ 400
(C) ₹ 300 (D) ₹ 600

188. The price of a bicycle is marked at ₹ 1,200. If successive discounts of 20%, 10%, 5% be allowed, then the sale price of the bicycle is

- (A) ₹ 820.80 (B) ₹ 780
(C) ₹ 800 (D) ₹ 821.20

189. The weights of equal volumes of gold and water are as 37 is to 2. If a litre of water weighs 1 kg, find the weight of a cubic centimetre of gold.

- (A) 20.5 gm. (B) 29.5 gm.
(C) 16.5 gm. (D) 18.5 gm.

190. If $\frac{A-B}{A+B} = \frac{3}{4}$, then value of $\frac{2A-3B}{2B+3A}$ is

- (A) $\frac{21}{23}$ (B) $\frac{11}{14}$
(C) $\frac{11}{23}$ (D) $\frac{23}{11}$

191. Ten years ago A was half of B in age. If the ratio of their present ages is 3 : 4, what will be the total of their present ages ?

- (A) 8 years (B) 20 years
(C) 35 years (D) 45 years

192. The cost of a book depends upon the cost of papers, printing charges and binding charges in the ratio of 4 : 3 : 1. If the printing charges cost ₹ 67.50, the cost of the book will be

- (A) ₹ 180 (B) ₹ 122.50
(C) ₹ 380 (D) ₹ 540

SPACE FOR ROUGH WORK

193. The average age of the students of a class is 22 years. 12 new students with an average age of 17 years join the class, thereby decreasing the average by 2 years. The original strength of the class was
- (A) 16 (B) 17
(C) 18 (D) 19
194. If a, b, c, d, e are five consecutive positive even integers, their average is
- (A) $\frac{abcde}{5}$ (B) $a + 4$
(C) $5(a + 4)$ (D) $\frac{5a + 4}{5}$
195. The average of p numbers is q^2 and that of another q numbers is p^2 . The average of all these numbers is
- (A) pq (B) $p + q$
(C) p/q (D) q/p
196. Three years ago, the average age of a family of 5 members was 17 years. In spite of the birth of a child in the family, the present average of the family remains the same. The present age of the child is
- (A) 3 years (B) 1 year
(C) 2 years (D) 1.5 years
197. By selling an article a person made a profit of 25% on the cost price. The equivalent profit on the selling price is
- (A) $16\frac{2}{3}\%$ (B) 25%
(C) 20% (D) 30%
198. By selling a computer for ₹ 24,000, a trader loses 25%. What should be the selling price for a profit of 25%?
- (A) ₹ 40,000 (B) ₹ 30,000
(C) ₹ 33,000 (D) ₹ 36,000
199. A dishonest shopkeeper professes to sell pulses at his cost price but uses a false weight of 950 grams for each kg. Find his gain percentage.
- (A) $2\frac{3}{17}\%$ (B) $5\frac{5}{19}\%$
(C) $6\frac{7}{23}\%$ (D) $5\frac{7}{17}\%$
200. A cloth merchant has announced 25% rebate in prices. If one needs to have a rebate of ₹ 40, then how many shirts, each costing ₹ 32 should he purchase?
- (A) 6 (B) 5
(C) 7 (D) 4

SPACE FOR ROUGH WORK

MANNER IN WHICH ANSWERS ARE TO BE GIVEN

Directions : Each question or incomplete statement is followed by four alternative suggested answers or completions. In each case, you are required to select the one that correctly answers the question or completes the statement and blacken [●] appropriate oval A, B, C or D by **Black/Blue Ball Point Pen** against the question concerned in the Answer-Sheet.

The following example illustrates the manner in which the questions are required to be answered.

Example :

Question No. 'Q' -

Out of the four words given below, three are alike in some way and one is different. Find the **ODD** word :

- (A) Girl
- (B) Boy
- (C) Woman
- (D) Chair

Explanation : In the above example, the correct answer is 'Chair' and this answer has been suggested at 'D'. Accordingly, the answer is to be indicated by blackening [●] the oval by **Black/Blue Ball Point Pen** in column 'D' against Question No. 'Q' in the manner indicated below :

Question No. 'Q'

[A] [B] [C] [●]

There is only one correct answer to each question. You should blacken [●] the oval of the appropriate column, viz., A, B, C or D. If you blacken [●] more than one oval against any one question, the answer will be treated as wrong. If you wish to cancel any answer, you should **completely erase** that black mark in the oval in the Answer-Sheet and then blacken the oval of revised response.

You are **NOT** required to mark your answers in this Booklet. All answers must be indicated in the Answer-Sheet only.