

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

T. B. C. : AS – 5

Test Booklet Series

Serial No.

02973



TEST BOOKLET

**SPECIAL RECRUITMENT OF A. S. O.
COMPUTER APPLICATION (THEORY)**

Time Allowed : 1 Hour

Maximum Marks : 100

: INSTRUCTIONS TO CANDIDATES :

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SEAL

1. EEPROM stands for :
 - (A) Electrically Erasable Programmable Read Only Memory
 - (B) Electronic Erasable Programmable Read Only Memory
 - (C) Easily Erasable Programmable Read Only Memory
 - (D) None of the above
2. Who designed the first electronics computer – ENIAC ?
 - (A) Von-Neumann
 - (B) Joseph M. Jacquard
 - (C) J. Presper Eckert and John W. Mauchly
 - (D) All of the above
3. The second generation computer was based on _____.
 - (A) Vacuum Tube
 - (B) Silicon Chips
 - (C) Transistors
 - (D) Biochips
4. Which type of computers uses the 8-bit code called EBCDIC ?
 - (A) Minicomputers
 - (B) Microcomputers
 - (C) Mainframe computers
 - (D) Super computer
5. What does SDRAM mean ?
 - (A) Synchronous Digital RAM
 - (B) Synchronous Dynamic RAM
 - (C) Single digit RAM
 - (D) None of the above
6. Name the input device consisting of a stick that pivots on a base and reports its angle or direction to the device it is controlling :
 - (A) Mouse
 - (B) Joystick
 - (C) Trackball
 - (D) All of the above
7. Which printer uses dry ink ?
 - (A) Daisy wheel printer
 - (B) Dot Matrix printer
 - (C) Laser printer
 - (D) Thermal printer
8. Which of the following memories has the shortest access time ?
 - (A) Cache memory
 - (B) Magnetic core memory
 - (C) Magnetic bubble memory
 - (D) RAM
9. What is defined as the number of HTTP requests that a particular hardware and software combination can process in a unit of time ?
 - (A) Request
 - (B) Response
 - (C) Throughput
 - (D) None of the above

10. Why is a collection of computer servers usually maintained by an enterprise ?
 - (A) Server Firms
 - (B) Blade Servers
 - (C) Network Server
 - (D) None of the above
11. Which software vulnerability is a combination of attacks against different vulnerabilities ?
 - (A) Worm
 - (B) Trojan Horse
 - (C) Malware
 - (D) Blended threat
12. All windows have a _____ located at the top of the window that displays the program's name.
 - (A) Menu Bar
 - (B) Thumbnail
 - (C) Dialog Box
 - (D) Title Bar
13. The two ways to arrange multiple windows on the desktop are :
 - (A) Cascade and Tile
 - (B) Drag and Drop
 - (C) Point and Click
 - (D) Minimize and Maximize
14. Which of the following is not a type of folder view ?
 - (A) Tiles
 - (B) Cascades
 - (C) Thumbnails
 - (D) Details
15. Which of the following is not an option when shutting down your computer ?
 - (A) Log off
 - (B) Switch user
 - (C) Stand By
 - (D) None of the above
16. The _____ can be defined as an upside down mouse.
 - (A) trackpad
 - (B) trackball
 - (C) trackpoint
 - (D) thunderball
17. The _____ key will launch the Start button.
 - (A) esc
 - (B) shift
 - (C) windows
 - (D) shortcut
18. The wheel on a mouse can make it easier to _____ in media mode.
 - (A) scroll through documents
 - (B) select objects
 - (C) open documents
 - (D) change volume

19. Which of the following is not valid version of MS Office ?
- (A) Office XP
 - (B) Office Vista
 - (C) Office 2007
 - (D) None of the above
20. Which file starts MS Word ?
- (A) Winword.exe
 - (B) Word.exe
 - (C) Msword.exe
 - (D) Word2003.exe
21. The vertical space between lines of text is referred to as what ?
- (A) Indenting
 - (B) Line spacing
 - (C) Paragraph padding
 - (D) Internal margins
22. Which feature automatically ends a line and sends the rest text to the next line based on the margin settings ?
- (A) Autoline
 - (B) Auto Return
 - (C) Line Feed
 - (D) Word Wrap
23. Pictures are graphics that were created using another program and are inserted in your Word document as _____ objects.
- (A) Embedded
 - (B) Linked
 - (C) Inserted
 - (D) External
24. You can use the formula palette in Excel to :
- (A) Format cells containing numbers
 - (B) Create and edit formula containing functions
 - (C) Enter assumptions data
 - (D) Copy a range of cells
25. Which of the following option is not available in Paste Special dialog box in MS Excel ?
- (A) Add
 - (B) Subtract
 - (C) Divide
 - (D) SQRT
26. In the formula, which symbol specifies the fixed columns or rows in Excel ?
- (A) \$
 - (B) *
 - (C) %
 - (D) &
27. In the context of animations, what is a trigger ?
- (A) An action button that advances to the next slide
 - (B) An item on the slide that performs an action when clicked
 - (C) The name of a motion path
 - (D) All of the above

28. Special effects used to introduce slides in a presentation are called :
- (A) Effects
 - (B) Custom animations
 - (C) Transitions
 - (D) Present animations
29. DCL provides Commands to perform actions like :
- (A) Change the Structure of Tables
 - (B) Insert, Update or Delete Records and Data Values
 - (C) Authorizing Access and other control over Database
 - (D) None of the above
30. The Command Center of Access File that appears when you create or open the MS Access Database File :
- (A) Database Window
 - (B) Query Window
 - (C) Design View Window
 - (D) Switchboard
31. URL stands for :
- (A) Universal resource locator
 - (B) Uniform resource language
 - (C) Universal resource language
 - (D) Uniform resource locator
32. The first graphical browser for the WWW was named :
- (A) Netscape
 - (B) Veronica
 - (C) Mosaic
 - (D) Explorer
33. The mail server as defined in the text uses the _____ protocol.
- (A) HTTP
 - (B) FTP
 - (C) POP
 - (D) SMTP
34. A message with replies on a news group is often called a _____.
- (A) post
 - (B) list
 - (C) thread
 - (D) comment
35. News servers utilize _____ to distribute documents to readers.
- (A) NNTP
 - (B) NEWS
 - (C) HTTP
 - (D) FTP
36. Unsolicited commercial email is commonly known as _____.
- (A) junk
 - (B) hoaxes
 - (C) spam
 - (D) hypertext

37. Each IP packet must contain :
- (A) Only source address
 - (B) Only destination address
 - (C) Source and destination address
 - (D) Source or destination address
38. _____ provides a connection oriented reliable service for sending messages.
- (A) TCP
 - (B) IP
 - (C) UDP
 - (D) All of the above
39. Which of the following IP address class is Multicast ?
- (A) Class A
 - (B) Class B
 - (C) Class C
 - (D) Class D
40. How many bits are there in IPv6 address ?
- (A) 16
 - (B) 32
 - (C) 128
 - (D) 256
41. Which of the following is not described as a typical network classification ?
- (A) Local area network
 - (B) Wide area network
 - (C) Metropolitan area network
 - (D) Country area network
42. What type of communication media is the most widely used cabling for data transfer today ?
- (A) Cat 5
 - (B) Twisted pair
 - (C) Coaxial
 - (D) Optical fiber
43. A Bluetooth Network is called a _____.
- (A) Piconet
 - (B) Scatternet
 - (C) Bluenet
 - (D) None of the above
44. In Bluetooth, the _____ layer is roughly equivalent to the physical layer of the Internet model.
- (A) Radio
 - (B) Baseband
 - (C) L2CAP
 - (D) None of the above
45. The access method in Bluetooth is _____.
- (A) FDMA
 - (B) TDD-TDMA
 - (C) CDMA
 - (D) None of the above

46. Which topology requires a central controller or hub ?
- (A) Mesh
 - (B) Star
 - (C) Bus
 - (D) Ring
47. Which topology requires a multipoint connection ?
- (A) Mesh
 - (B) Star
 - (C) Bus
 - (D) Ring
48. A _____ is a data communication system within a building, plant or campus or between nearby buildings.
- (A) LAN
 - (B) MAN
 - (C) WAN
 - (D) None of the above
49. _____ is a collection of many networks.
- (A) A WAN
 - (B) An Internet
 - (C) A LAN
 - (D) None of these
50. For the purpose of routing, the Internet is divided into _____.
- (A) Wide Area Network
 - (B) Autonomous Network
 - (C) Autonomous System
 - (D) None of the above

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06177



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ENGLISH

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Direction (Q. Nos. 1 – 5) : Choose the right answer from the given alternatives and mention it as (A), (B), (C) or (D) in the answer sheet against the question number.

1. What kind of verb is the underlined word in the sentence 'His friends misunderstood him unnecessarily' ?
 (A) Regular
 (B) Irregular
 (C) Auxiliary
 (D) Intransitive
2. What kind of verb is 'need' in the sentence : 'You need not worry about it, we will manage' ?
 (A) Primary auxiliary
 (B) Modal
 (C) Main verb
 (D) Strong verb
3. What is the word 'fight' called in the sentence : 'The Indian soldiers fought a brave fight' ?
 (A) Complement
 (B) Direct object
 (C) Cognate object
 (D) None of these

4. What is the word 'moving' in the sentence, 'It is dangerous to get into a moving train' called ?
 (A) Participle
 (B) Gerund
 (C) Present progressive
 (D) Adjective
5. What is the word 'go' in the sentence, 'He made him go there' called ?
 (A) Object
 (B) Infinitive
 (C) Principal verb
 (D) Zero infinitive

Direction (Q. Nos. 6 – 15) : Supply the correct tense form of the verbs given in brackets in the sentences.

6. It's time the government (revisit) the issue in the larger interests of the people.
 (A) revisits
 (B) revisited
 (C) revisit
 (D) had revisited
7. When it (stop) raining, we'll go out.
 (A) stops
 (B) has stopped
 (C) will stop
 (D) stopped

8. It has been very cold lately, but it just (begin) to get warmer.
 (A) is beginning
 (B) begins
 (C) will begin
 (D) was beginning
9. It is two years since he (leave) the country.
 (A) had left
 (B) has left
 (C) left
 (D) is leaving
10. He refused to go till he (finish) all his assignments.
 (A) finishes
 (B) would finish
 (C) finished
 (D) had finished
11. She ran as if she (have) wings.
 (A) has
 (B) was having
 (C) is having
 (D) had
12. If they (report) in time, they would have succeeded.
 (A) reported
 (B) would report
 (C) report
 (D) had reported
13. I wrote down his address in case I (forget) it.
 (A) would forget
 (B) forgot
 (C) forget
 (D) might forget
14. If only I (know) what she wanted !
 (A) knew
 (B) had known
 (C) know
 (D) did know
15. If I (have) enough money, I would go to America.
 (A) had
 (B) will have
 (C) had had
 (D) have
- Direction (Q. Nos. 16 – 25) : Fill in the blanks in the following sentences with appropriate prepositions.**
16. I assured him _____ my support.
 (A) with
 (B) about
 (C) of
 (D) for
17. He refused to hear anything _____ her.
 (A) about
 (B) for
 (C) against
 (D) on

18. The government conceded _____ the demands of the union.
(A) to
(B) at
(C) with
(D) about
19. The food deficient _____ vitamins is of no value.
(A) of
(B) in
(C) with
(D) at
20. The mothers are usually quite blind _____ the faults of their children.
(A) at
(B) on
(C) with
(D) to
21. Vinay insisted _____ my coming here.
(A) at
(B) about
(C) on
(D) for
22. The office complied _____ the objections of the Treasury.
(A) to
(B) with
(C) for
(D) at
23. What is the time _____ your watch ?
(A) in
(B) at
(C) on
(D) by
24. The dog sprang _____ the hen.
(A) on
(B) upon
(C) onto
(D) at
25. _____ the mask of her stern appearance is there a soft heart.
(A) Under
(B) Below
(C) Beneath
(D) Down
- Direction (Q. Nos. 26 – 30) : Fill in the blanks in the following sentences with suitable adverbs/adjuncts.**
26. _____, we have to arrange our lectures.
(A) Month-wise
(B) Evidently
(C) Moreover
(D) Otherwise

27. The students, _____, are unhappy with the present curriculum.

- (A) especially
- (B) really
- (C) indeed
- (D) in particular

28. He is _____ responsible for what has happened.

- (A) obviously
- (B) almost
- (C) indeed
- (D) at last

29. Ramesh is _____ the most effective amongst all.

- (A) totally
- (B) thoroughly
- (C) altogether
- (D) by far

30. The CRP lathicharged the demonstrators _____.

- (A) a lot
- (B) indiscriminately
- (C) without any reason
- (D) a great deal

Direction (Q. Nos. 31 – 35) : Fill in the blanks in the following sentences with correct alternatives.

31. One should always be sure of _____ facts.

- (A) his
- (B) her
- (C) their
- (D) one's

32. Most of the work _____ remained unfinished.

- (A) has
- (B) have
- (C) are
- (D) is

33. More than one person _____ involved in this misappropriation.

- (A) are
- (B) has been
- (C) were
- (D) remain

34. The teacher rather than the students _____ to be congratulated.

- (A) are
- (B) were
- (C) is
- (D) have

35. The committee _____ divided on the issue.

- (A) has been
- (B) are
- (C) is
- (D) was

Direction (Q. Nos. 36 – 40) : Point out in the following sentences what kind of errors are there mentioning the correct alternatives.

36. The cow kicked the boy that was grazing in the field.

- (A) Error in the relative pronoun
- (B) Error in the subject-verb agreement
- (C) Syntactical error
- (D) Error in the verb tense

37. They could not come to a final conclusion.

- (A) Intrusion of adjective
- (B) Prepositional error
- (C) Error in the omission of words
- (D) Article error

38. You have to adapt with the changing circumstances.

- (A) Error in the word order
- (B) Error in the number

- (C) Error in the use of article
- (D) Prepositional error

39. The doctor expected that the patient would die.

- (A) Error in the use of words
- (B) Verb tense error
- (C) Error in the clause
- (D) Error in the subject-verb agreement

40. They robbed him his money.

- (A) Omission of a preposition
- (B) Syntactical error
- (C) Error in the use of determiner
- (D) None of these

Direction (Q. Nos. 41 – 45) : Find out which part of the following sentences contains an error.

41. (A) The Police
(B) investigated the matter
(C) and upon enquiry
(D) she was found guilty.

42. (A) Now he
(B) has come,
(C) we shall start
(D) the meeting.

43. (A) The girl continued
(B) to be attractive
(C) as long as she
(D) was fourteen years old.

44. (A) Scarcely he had
(B) entered the campus
(C) a terrorist attacked
(D) the office.

45. (A) Supposing
(B) if you are selected,
(C) which branch
(D) will you take up ?

Direction (Q. Nos. 46 – 50) : Fill in the blanks in the following sentences with suitable linking words.

46. You have read all the comedies of Shakespeare. Which _____ did you like the most ?
(A) comedy
(B) one
(C) of all
(D) of them

47. The age limit to apply for the post is 26. _____, there is a relaxation of 3 years for SC/ST candidates.

- (A) And
(B) Of course
(C) On the other hand
(D) However

48. He could not pay the tuition fees for months together. _____ his name was struck off.

- (A) As a result
(B) For which
(C) Obviously
(D) Therefore

49. She wanted to be posted in Delhi. _____, her boss sent her to Mumbai.

- (A) Yet
(B) All the same
(C) On the other hand
(D) Consequently

50. Bharat is trying to improve his English, _____ the skill of communication in the language.

- (A) specifically
(B) especially
(C) moreover
(D) in addition to

Direction (Q. Nos. 51 – 60) : Fill in the blanks with suitable articles/possessives.

51. I met _____ one-legged man while going to the post office.
(A) a
(B) an
(C) no article
(D) the
52. Hari visited _____ hospital to meet his friend.
(A) no article
(B) the
(C) a
(D) an
53. The Chairman was not happy with _____ explanations.
(A) unsatisfactory
(B) a lot of
(C) a
(D) her
54. The Japanese are _____ brave people.
(A) no article
(B) the
(C) a
(D) no
55. He hit him on _____ head.
(A) his
(B) the
(C) a
(D) none of these
56. What is the word 'science' in the expression 'the first few old science colleges of Odisha' called ?
(A) Adjective
(B) Noun head
(C) Determiner
(D) Classifier
57. What is the word 'half' in the sentence 'Half the population was in distress' called ?
(A) Fraction
(B) Pre determiner
(C) Adjective
(D) Determiner
58. What word class is 'some' in the following sentences ?
Are there any student in the class ?
Yes, there are some.
(A) Quantifier
(B) Pronoun
(C) Determiner
(D) Adjective

59. What is the word 'few' in the sentence
'Her few friends are not to be seen'
called ?
- (A) Quantifier
(B) Adjective
(C) Post determiner
(D) Amount word
60. What is 'which' in the sentence
'Which colour do you like most' ?
- (A) Adjective
(B) Relative pronoun
(C) Wh-determiner
(D) Demonstrative
- Direction (Q. Nos. 61 – 65) : Replace the underlined expressions in the following sentences with suitable phrasal verbs.**
61. His dismissal from the party started
violent protests and other political
complications.
- (A) Set off
(B) Set in
(C) Brought out
(D) Set out
62. You have to work very hard to
compensate for your loss.
- (A) Get over
(B) Make out
(C) Make for
(D) Make up
63. The commission is investigating
the embezzlement of the public
funds.
- (A) Looking on
(B) Looking at
(C) Looking into
(D) Looking for
64. He discarded his bad company and
concentrated on his studies.
- (A) Threw down
(B) Threw off
(C) Gave up
(D) Came out of
65. The master dismissed the servant
on charges of theft.
- (A) Drove out
(B) Kicked out
(C) Turned out
(D) Turned off

Direction (Q. Nos. 66 – 75) :
Substitute a single word for the following expressions.

66. A person falsely claiming a special knowledge or skill.
(A) Hypocrite
(B) Charlatan
(C) Egoist
(D) Braggart
67. In a state of moral or cultural deterioration.
(A) Decadence
(B) Profligacy
(C) Debilitation
(D) Depravity
68. Favouritism shown to relatives or friends in conferring offices.
(A) Unlawful
(B) Partial
(C) Nepotism
(D) Opinionated
69. A strong dislike for something.
(A) Disdain
(B) Contempt
(C) Abomination
(D) Aversion
70. Not showing enough care or enthusiasm.
(A) Lack-lustre
(B) Lackadaisical
(C) Indolent
(D) Impudent
71. Forecast of the probable course of disease.
(A) Prognosis
(B) Decipher
(C) Ultra sound
(D) Diagnosis
72. One who deals in carpets, curtains, beds, etc.
(A) Confectioner
(B) Cartographer
(C) Haberdasher
(D) Upholsterer
73. An awkward person with rough and unpolished manners.
(A) Stupid
(B) Clown
(C) Idiot
(D) Bumpkin

74. A place for keeping bees.
- (A) Apiary
(B) Aviary
(C) Barns
(D) Sanctuary
75. One who has a special skill in judging food, wine, etc.
- (A) Valetudinarian
(B) Cuisine
(C) Connoisseur
(D) Adroit
- Direction (Q. Nos. 76 – 85) : Find the antonyms of the following.**
76. Prodigal :
- (A) Thrifty
(B) Extravagant
(C) Economical
(D) Temperate
77. Shout :
- (A) Shriek
(B) Twitter
(C) Scale down
(D) Whisper
78. Opaque :
- (A) Labyrinth
(B) Dungeon
(C) Transparent
(D) Translucent
79. Hostile :
- (A) Amiable
(B) Friendly
(C) Hanger on
(D) Apathetic
80. Dolorous :
- (A) Remorseful
(B) Jovial
(C) Candid
(D) Hopeful
81. Philanthropist :
- (A) Misogynist
(B) Misanthrope
(C) Cannibal
(D) Humanitarian
82. Mandatory :
- (A) Optional
(B) Compulsory
(C) Statutory
(D) Liberal

83. Frequent :
(A) Casual
(B) Irregular
(C) Unfrequent
(D) Occasional

84. Heterodox :
(A) Agnostic
(B) Conformist
(C) Atheist
(D) Orthodox

85. Prostrate :
(A) Supine
(B) Recumbent
(C) Flat
(D) Horizontal

Direction (Q. Nos. 86 – 92) : Read the following passages and choose the correct answers to the questions given.

- (a) Past generations, with their ambitions, traditions and ideals, have brought misery and destruction to the world ; perhaps the coming generations, with the right kind of

education, can put an end to the chaos and build a happier social order. If those who are young have the spirit of enquiry, if they are constantly searching out the truth of all things, political and religious, personal and environmental, then youth will have great significance and there is hope for a better world.

86. How do you characterize the author's attitude ?

- (A) Liberal
(B) Cynical
(C) Fanatic
(D) Optimistic

87. How can the coming generation change the world ?

- (A) Dismissing the old ideas and tradition
(B) With the right kind of education, leading to the spirit of enquiry
(C) Opposing the political and religious institutions
(D) By constant soul-searching

(b) Peace is not achieved through any ideology, it does not depend on legislation ; it comes only when we as individuals begin to understand our own psychological process. If we avoid the responsibility of acting individually and wait for some new system to establish peace, we shall merely become the slaves of that system.

88. How can peace be achieved ?

- (A) By legislation
- (B) By a new system
- (C) By understanding our 'own-selves
- (D) By demolishing the old ideologies

89. Does the author insist on :

- (A) Collective effort
- (B) Individual effort
- (C) The continuity of the old tradition
- (D) Following an ideology

90. What kind of 'peace' does the author talk about ?

- (A) Social
- (B) Peace at the individual level
- (C) Spiritual
- (D) Conforming to a set pattern

(c) Order is not following a pattern of life, or following certain systems blindly or openly, but to enquire into ourselves and discover for ourselves ; not to be told, not to be guided, but to unfold in ourselves the real causes of this disorder. So, what are the causes of this chaos, not only in the world outside of us, but also of our own inward psychological confusion which has produced disorder outwardly ?

91. How will you describe the author's attitude ?

- (A) A conventionalist
- (B) Non-conformist
- (C) Ritualistic
- (D) Pacifist

92. What is the author more worried about ?

- (A) The prevailing order
- (B) Searching for a system
- (C) Seeking proper guidance
- (D) Our own inward psychological confusion

Direction (Q. Nos. 93 – 96) : Give the meanings of the following idioms and expressions.

93. A snake in the grass :

- (A) A favourable person
- (B) An unfriendly person
- (C) A cunning harmful person, pretending to be friendly
- (D) In keeping with the system

94. A storm in a tea cup :

- (A) A trivial incident
- (B) Creating an uproar
- (C) Shouting at a small incident
- (D) Disturbance in the atmosphere

95. To make hay while the sun shines :

- (A) To swim with the current
- (B) To become an opportunist
- (C) To do the right thing at the right time
- (D) To take advantage of an opportunity

96. To smell a rat :

- (A) To suspect somebody
- (B) To be suspicious about something
- (C) To feed the poor
- (D) To exploit the situation

Direction (Q. Nos. 97 – 100) : Give the nouns of the following.

97. Feed :

- (A) Fodder
- (B) Feeding
- (C) Feed
- (D) Food

98. Hinder :

- (A) Hindrance
- (B) Hindering
- (C) Hinder
- (D) Hinderation

99. Convert :

- (A) Convert
- (B) Conversion
- (C) Converting
- (D) Conversion

100. Recalcitrant :

- (A) Racalcitration
- (B) Recalcitrate
- (C) Recalcitrant
- (D) Recalcitrance

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T. B. C. : AS – 2

Test Booklet Series

Serial No.

05189

TEST BOOKLET

SPECIAL RECRUITMENT OF A. S. O.

MATHEMATICS



Time Allowed : 1 Hour

Maximum Marks : 100

: INSTRUCTIONS TO CANDIDATES :

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET OF THE SAME SERIES ISSUED TO YOU.
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SEAL

1. For any two positive integers r and s , $\text{HCF}(r, s) \times \text{LCM}(r, s) =$
 - (A) $r \times s$
 - (B) $r \times r - s$
 - (C) $r + s \times s$
 - (D) None of the above
2. $5 - \sqrt{3}$ is :
 - (A) Rational
 - (B) Irrational
 - (C) Rational and irrational both
 - (D) None of the above
3. Let p be a prime number. If p divides m^2 , where m is a positive integer then :
 - (A) p does not divide m
 - (B) mp is always an even number
 - (C) p divides m
 - (D) None of the above
4. $8\sqrt{15} \div 2\sqrt{3} =$
 - (A) $3\sqrt{5}$
 - (B) $4\sqrt{5}$
 - (C) $4\sqrt{3}$
 - (D) $4\sqrt{15}$
5. The value of $4725 - 2879$ by rounding each number to the nearest hundred is
 - (A) 1900
 - (B) 1846
 - (C) 1800
 - (D) None of the above
6. Raj completes $\frac{1}{6}$ of his project in $3\frac{1}{2}$ days. How long would he take to complete the whole project ?
 - (A) 21 days
 - (B) $7/12$ days
 - (C) $7/3$ days
 - (D) 18 days
7. If the HCF of 210 and 55 is expressible in the form $210 \times 5 + 55y$ then $y =$
 - (A) 19
 - (B) 5
 - (C) 55
 - (D) -19
8. In a school there are two sections — Section G and Section H of class X. There are 90 students in Section G and 144 students in section H. Determine the minimum number of books required for their class library so that they can be distributed equally among the students of Section G or Section H.
 - (A) 18
 - (B) 720
 - (C) 90
 - (D) 144

9. The product of two 2 digit numbers is 1938. If the product of their unit's digits is 28 and that of ten's digits is 15, then find the numbers :
- (A) 37, 54
(B) 36, 54
(C) 19, 38
(D) 34, 57
10. 280% of a number is 560. What is the number ?
- (A) 200
(B) 280
(C) 1568
(D) None of the above
11. How many two digit numbers are divisible by 3 ?
- (A) 30
(B) 20
(C) 40
(D) None of the above
12. $1 + 2 + 3 + \dots + 20 =$
- (A) 190
(B) 210
(C) 400
(D) None of the above
13. If the sum of first 14 terms of an Arithmetic Progression is 1050 and its first term is 10 then the 20th term is :
- (A) 200
(B) 100
(C) 1050
(D) None of the above
14. Whether 301 is a term in the list of numbers 5, 11, 17, 23,
- (A) Yes
(B) Yes if we have total number of terms as 51
(C) No
(D) None of the above
15. A quadratic equation $ax^2 + bx + c = 0$ has no real root if :
- (A) $b^2 - 4ac > 0$
(B) $b^2 - 4ac = 0$
(C) $b - 4ac < 0$
(D) $b^2 - 4ac < 0$
16. A motor boat whose speed is 18 km/h in still water take 1 hour more to go 24 km upstream than to return downstream to the same spot. Then the speed of the stream is :
- (A) 8 km/h
(B) 24 km/h
(C) 23 km/h
(D) 6 km/h

17. Roots of the quadratic equation $2x^2 - 2\sqrt{2}x + 1 = 0$ are :
- (A) $\left(\frac{1}{\sqrt{2}}, 2\right)$
- (B) $\left(\frac{1}{\sqrt{2}}, 3\right)$
- (C) $\left(\frac{1}{\sqrt{2}}, \frac{1}{\sqrt{2}}\right)$
- (D) None of the above
18. For what values of p does the pair of equations given below has unique solution :
- $4x + py + 8 = 0$; $2x + 2y + 2 = 0$
- (A) $p = 4$
- (B) $p \neq 8$
- (C) For all values of p except 4
- (D) None of the above
19. 4 chairs and 3 tables cost Rs. 2100 and 5 chairs and 2 tables cost Rs. 1,750, then the cost of a chair is :
- (A) Rs. 150
- (B) Rs. 500
- (C) Rs. 15
- (D) None of the above
20. If α and β are the zeroes of the quadratic polynomial $f(x) = x^2 - px + q$ then $\frac{1}{\alpha} + \frac{1}{\beta} =$
- (A) pq
- (B) q/p
- (C) p/q
- (D) None of the above
21. $g(y) = 2y^3 + 5y - 7$ is a :
- (A) Cubic polynomial
- (B) Quadratic polynomial
- (C) Linear polynomial
- (D) None of the above
22. The sum of the squares of zeroes of the quadratic polynomial $f(x) = x^2 - 8x + k$ is 40 then value of k is :
- (A) 14
- (B) 3
- (C) 8
- (D) 12
23. Verify whether 2 and 0 are zeroes of the polynomial $x^2 - 2x$:
- (A) Yes
- (B) No
- (C) Yes if $x^2 = 3$
- (D) None of the above
24. The remainder when $x^4 + x^3 - 2x^2 + x + 1$ is divided by $(x - 1)$ is :
- (A) 1
- (B) 3
- (C) 2
- (D) 0
25. The value of k , if $(x - 1)$ is a factor of $4x^3 + 3x^2 - 4x + k$ is :
- (A) 0
- (B) -1
- (C) -2
- (D) -3

26. A fort had provisions of food for 300 men for 90 days. After 20 days, 50 men left the fort. How long would the food last at the same rate ?
 (A) 108 days
 (B) 70 days
 (C) 84 days
 (D) 48 days
27. A and B together can do a piece of work in 12 days. While B alone can finish it in 30 days. In how many days can A alone finish the work ?
 (A) 18 days
 (B) 20 days
 (C) 30 days
 (D) 12 days
28. At what rate percent per annum will a sum of Rs. 2,000 amount to Rs. 2,205 in 2 years, compounded annually ?
 (A) 6
 (B) 20
 (C) 2
 (D) 5
29. A trader marks his goods at 40% above the cost price and allows a discount of 25%. What is his gain percent ?
 (A) 5
 (B) 15
 (C) 2
 (D) 65
30. Area of a regular hexagon each of whose sides measures 6 cm is :
 (A) 92.528 cm^2
 (B) 93.528 cm^2
 (C) 36 cm^2
 (D) None of the above
31. The lengths of tangents drawn from an external point to a circle are :
 (A) Parallel
 (B) Not equal
 (C) Equal
 (D) None of the above
32. The area of the sector of a circle with radius 4 cm and of angle 30° is (use $\pi = 3.14$) approximately :
 (A) 4.19 cm^2
 (B) 16 cm^2
 (C) 120 cm^2
 (D) None of the above
33. Length of an arc of a sector of angle θ for a circle with radius r is :
 (A) $\frac{360\theta}{2\pi r}$
 (B) $\frac{r\theta}{360\pi}$
 (C) $\frac{2\pi r\theta}{360}$
 (D) None of the above

34. Two sides of a triangle are 8 cm and 11 cm respectively and its perimeter is 32 cm then the area of the triangle is :
- (A) $11\sqrt{2}\text{ cm}^2$
 (B) $30\sqrt{2}\text{ cm}^2$
 (C) $11\sqrt{30}\text{ cm}^2$
 (D) $8\sqrt{30}\text{ cm}^2$
35. If the sum of a pair of opposite angles of a quadrilateral is 180° , then the quadrilateral is :
- (A) Asymptote
 (B) Cyclic
 (C) Cubic
 (D) None of the above
36. Surface area of a cuboid whose length, breadth and height are 15 cm, 10 cm and 20 cm respectively is :
- (A) 6000 cm^2
 (B) 1300 cm^2
 (C) 3000 cm^2
 (D) None of the above
37. Find the curved surface area of a right circular cone, whose slant height is 10 cm and base radius is 7 cm (take $\pi = 22/7$) :
- (A) 22 cm^2
 (B) 140 cm^2
 (C) 220 cm^2
 (D) 70 cm^2
38. The height and the slant height of a cone are 21 cm and 28 cm respectively, then the volume of the cone is (take $\pi = 22/7$) :
- (A) 154 cm^3
 (B) 1848 cm^3
 (C) 84 cm^3
 (D) 7546 cm^3
39. A hemispherical bowl has a radius 3.5 cm. What would be the volume of water it would contain ? (take $\pi = 22/7$) :
- (A) 84.8 cm^3
 (B) 89 cm^3
 (C) 89.8 cm^3
 (D) None of the above
40. A cone of height 24 cm and radius of base 6 cm is made up of modeling clay. A child reshapes it in the form of a sphere. Then the radius of the sphere will be :
- (A) 2 cm
 (B) 4 cm
 (C) 12 cm
 (D) 6 cm
41. The length of the longest pole that can be put in a room of dimension 10 m by 10 m by 5 m is :
- (A) 25 m
 (B) 20 m
 (C) 500 m
 (D) 15 m

42. A cube has total surface area 486 cm^2 . Then volume of the cube is :
 (A) 829 cm^3
 (B) 486 cm^3
 (C) 720 cm^3
 (D) None of the above
43. The bar graph is a pictorial representation of numerical data in the form of rectangles of :
 (A) Equal width or varying heights
 (B) Equal width and varying heights
 (C) Equal width and constant heights
 (D) None of the above
44. The number of times a particular observation occurs in a given data is called its :
 (A) Range
 (B) Frequency
 (C) Group
 (D) None of the above
45. The height (in cm) of 9 students of a class are as follows :
 155, 160, 145, 149, 150, 147, 152, 144, 148.
 The median of this data is :
 (A) 147 cm
 (B) 148 cm
 (C) 150 cm
 (D) 149 cm
46. A coin is tossed 150 times and head is obtained 71 times. Now, if the coin is tossed at random, what is the probability of getting a tail ?
 (A) $70/150$
 (B) 1
 (C) $71/150$
 (D) $79/150$
47. Suppose we throw a die once, what is the probability of getting a number greater than 4 ?
 (A) $1/6$
 (B) 3
 (C) $4/6$
 (D) $1/3$
48. A box contains 3 blue, 2 white and 4 red marbles. If a marble is drawn at random from the box, then what is the probability that it will be a red ?
 (A) $1/9$
 (B) $1/3$
 (C) $2/9$
 (D) None of the above
49. An unbiased die is thrown, what is the probability of getting an even number ?
 (A) $1/6$
 (B) $1/2$
 (C) $1/3$
 (D) None of the above
50. A card is drawn at random from a well shuffled deck of 52 cards. Find the probability of getting a club.
 (A) $1/26$
 (B) $1/3$
 (C) $1/52$
 (D) None of the above

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SPACE FOR ROUGH WORK

SEAL

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T. B. C. : AS – 4

Test Booklet Series

Serial No. **06333**



TEST BOOKLET

SPECIAL RECRUITMENT OF A.S.O.

TEST OF REASONING AND MENTAL ABILITY

Time Allowed : 1 Hour

Maximum Marks : 100

: INSTRUCTIONS TO CANDIDATES :

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Direction (Q. Nos. 1 – 4) : Find out the correct number to fill in the spaces which will continue the same pattern.

1. 2, 12, 30, 56, 90, _____ .
(A) 132
(B) 121
(C) 130
(D) 129
2. 2, 7, 28, 63, 126, _____ .
(A) 216
(B) 217
(C) 215
(D) 219
3. 999, 730, 511, 344, 215, _____ .
(A) 123
(B) 124
(C) 125
(D) 126
4. 11, 14, 24, 41, 65, _____ .
(A) 91
(B) 93
(C) 96
(D) 98

Direction (Q. Nos. 5 – 8) : Find out the correct letter/letters to fill in the spaces which will continue the same pattern.

5. Z, L, X, J, V, H, T, F, _____, _____ .
(A) R, D

- (B) R, E
- (C) S, E
- (D) Q, D

6. BD, GI, LN, QS, _____ .
(A) TV
(B) UW
(C) WX
(D) VX

7. cx, fu, ir, _____, ol, ri.
(A) lo
(B) mn
(C) no
(D) op

8. OTE, PUF, QVG, RWH, _____ .
(A) SYJ
(B) TXI
(C) SXJ
(D) SXI

9. If South-East becomes North, North-East becomes West and so on. What will West become ?

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

10. Rahul put his time piece on the table in such a way that at 6 P.M. hour hand points to North. In which direction the minute hand will point at 9.15 P.M. ?
- (A) South-East
(B) South
(C) North
(D) West
11. A is 40 m South-West of B. C is 40 m South-East of B. Then, C is in which direction of A ?
- (A) West
(B) North-East
(C) South
(D) East
12. The town of Paranda is located on Green Lake. The town of Akram is West of Paranda. Tokhada is East of Akram but West of Paranda. Kakran is East of Bopri but West of Tokhada and Akram. If they are all in the same district, which town is the farthest West ?
- (A) Bopri
(B) Kakran
(C) Akram
(D) Paranda
13. If cloud is called white, white is called rain, rain is called green, green is called air, air is called blue and blue is called water, where will the birds fly ?
- (A) Air
(B) Cloud
(C) Blue
(D) Rain
14. In a certain code, '37' means 'which class' and '583' means 'caste and class'. What is the code for 'Caste' ?
- (A) 3
(B) 7
(C) 8
(D) Either 5 or 8
15. If $D = 4$ and $COVER = 63$, then $BASIS = ?$
- (A) 55
(B) 54
(C) 50
(D) 49
16. If in a certain language CALCUTTA is coded as GEPGYXXE, which word would be coded as FSQFCE ?
- (A) BOMBYA
(B) BOMYAB
(C) BOMBAY
(D) BOBAMY

17. Sanjeev ranks seventh from the top and twenty eight from the bottom in a class. How many students are there in the class ?
 (A) 37
 (B) 36
 (C) 35
 (D) 34
18. In a row of trees, one tree is fifth from either end of the row. How many trees are there in the row ?
 (A) 8
 (B) 9
 (C) 10
 (D) 11
19. Raman ranks sixteenth from the top and forty ninth from the bottom in a class. How many students are there in the class ?
 (A) 64
 (B) 65
 (C) 66
 (D) Can not be determined
20. Some boys are sitting in a row. P is sitting fourteenth from the left and Q is seventh from the right. If there are four boys between P and Q, how many boys are there in the row ?
 (A) 25
 (B) 23
 (C) 21
 (D) 19
21. A is 3 years older to B and 3 years younger to C, while B and D are twins. How many years older is C and D ?
 (A) 3
 (B) 6
 (C) 9
 (D) 12
22. A farmer built a fence around his square plot. He used 27 fence poles on each side of the square. How many poles did he need altogether ?
 (A) 54
 (B) 84
 (C) 104
 (D) 108
23. A father is now three times as old as his son. Five years back, he was four times as old as his son. The age of the son (in years) is :
 (A) 10
 (B) 12
 (C) 15
 (D) 18
24. A man has Rs. 480 in the denominations of one rupee notes, five rupee notes and ten rupee notes. The number of each denomination is equal. What is the total number of notes that he has ?
 (A) 45
 (B) 75
 (C) 90
 (D) 120

25. A is two years older than B who is twice as old as C. If the total of the ages of A, B and C be 27, then how old is B ?

- (A) 7
(B) 8
(C) 9
(D) 10

26. A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of his son is :

- (A) 14 years
(B) 18 years
(C) 20 years
(D) 22 years

27. At present, the ratio between the ages of Arun and Deepak is 4 : 3. After 6 years, Arun's age will be 26 years. What is the age of Deepak at present ?

- (A) 12 years
(B) 15 years
(C) 19 and half
(D) 21 years

28. Numismatist : Coins

- (A) Philatelist : Stamps
(B) Jeweller : Jewels
(C) Cartographer : Maps
(D) Geneticist : Chromosomes

29. **Peas : Gram :: Pulses :**

- (A) Rice
(B) ~~Barley~~

- (C) Beans
(D) Coconut

30. $42 : 20 :: 64 : ?$

- (A) 31
(B) 32
(C) 33
(D) 34

Direction (Q. Nos. 31 – 34) : Each of the following questions consists of five figures marked A, B, C, D and E called the Problem Figures followed by five other figures marked 1, 2, 3, 4 and 5 called the Answer Figures. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

31. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures :

Problem Figures :

X	↑	★	S	C	↑	★	↑	Q	P
	S		C		S		C		S
=	C	↑	X	↑	★	S	Q	↑	C

- (A) (B) (C) (D) (E)

Answer Figures :

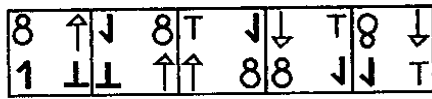
↑	S	*	↑	↑	S	▽	C	△	↑
C			C		C		d		d
P	d	S	d	P	d	P	S	C	S

- | (1) | (2) | (3) | (4) | (5) |
|-----|-----|-----|-----|-----|
|-----|-----|-----|-----|-----|

- (A) 1
(B) 2
(C) 3
(D) 4

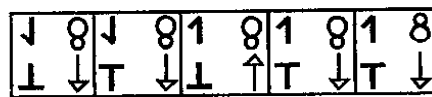
32. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures :



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

Answer Figures :



(1) (2) (3) (4) (5)

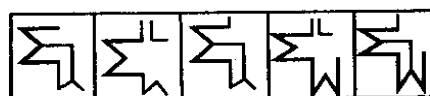
- (A) 1
(B) 2
(C) 3
(D) 4
33. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures :

Problem Figures :



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

Answer Figures :



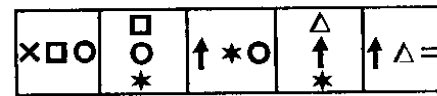
(1) (2) (3) (4) (5)

(A) 1

- (B) 2
(C) 3
(D) 4

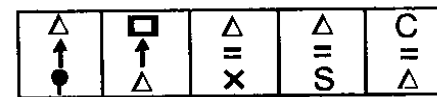
34. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures :

Problem Figures :



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

Answer Figures :



(1) (2) (3) (4) (5)

- (A) 1
(B) 2
(C) 3
(D) 4

35. Choose the alternative which is closely resembles the mirror image of the given combination :

AN54WMG3

- (i) 3G1W12N1 (ii) 3G1W12N1
(iii) 3G1W12N1 (iv) 3G1W12N1

- (A) 1
(B) 2
(C) 3
(D) 4

36. Choose the alternative which is closely resembles the mirror image of the given combination :

DL9CG4728

- (i) DL9CG4728 (ii) 8574GCGFD
(iii) 8574GCGFD (iv) DL9CG4728

- (A) 1
(B) 2
(C) 3
(D) 4

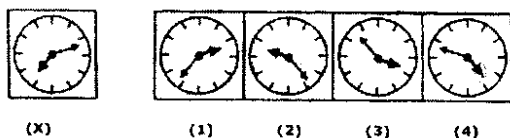
37. Choose the alternative which is closely resembles the mirror image of the given combination :

GEOGRAPHY

- (i) YHPARGOEG (ii) YHPARGOEG
(iii) YHPARGOEG (iv) YHPARGOEG

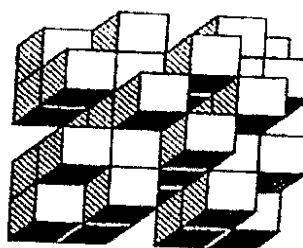
- (A) 1
(B) 2
(C) 3
(D) 4

38. Choose the correct mirror image of the given figure (x) from amongst the four alternatives :



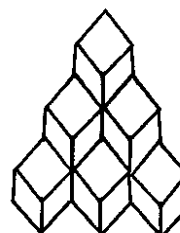
- (A) 1
(B) 2
(C) 3
(D) 4

39. Count the number of Cubes in the following figure :



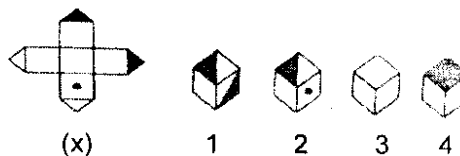
- (A) 28
(B) 36
(C) 40
(D) 42

40. Count the number of Cubes in the following figure :



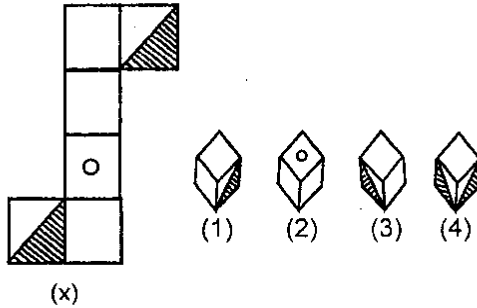
- (A) 6
(B) 8
(C) 10
(D) 12

41. Choose the box that is similar to the box formed from the given sheet of paper (x) :



- (A) 1 and 2 only
(B) 2 and 4 only
(C) 2 and 3 only
(D) 1 and 4 only

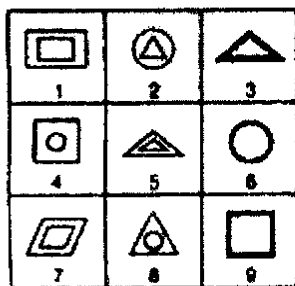
42. Choose the box that is similar to the box formed from the given sheet of paper (x) :



- (A) 1 and 3 only
(B) 1 and 4 only
(C) 2 and 4 only
(D) 3 and 4 only

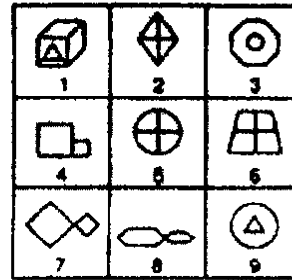
Direction (Q. Nos. 43 – 46) : In each of the following questions, group the given figures into three classes using each figure only once.

43.



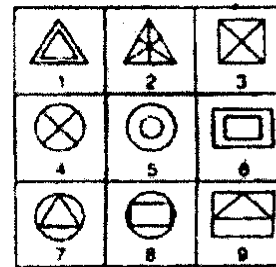
- (A) 1, 5, 7 ; 2, 4, 6 ; 3, 9, 8
(B) 1, 5, 7 ; 2, 4, 8 ; 3, 6, 9
(C) 1, 4, 7 ; 2, 5, 8 ; 3, 6, 9
(D) 1, 7, 9 ; 3, 5, 8 ; 2, 4, 6

44.



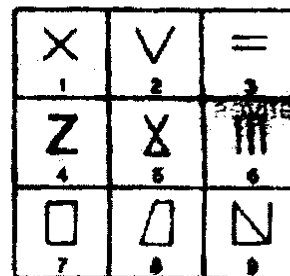
- (A) 1, 3, 9 ; 2, 5, 6 ; 4, 7, 8
(B) 1, 3, 9 ; 2, 7, 8 ; 4, 5, 6
(C) 1, 2, 4 ; 3, 5, 7 ; 6, 8, 9
(D) 1, 3, 6 ; 2, 4, 8 ; 5, 7, 9

45.



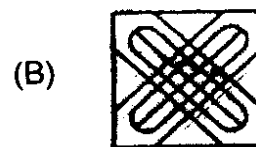
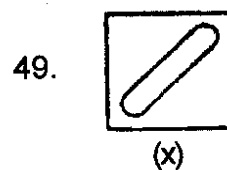
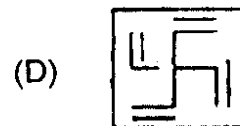
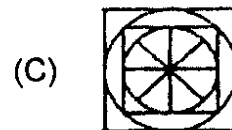
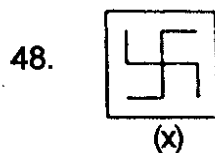
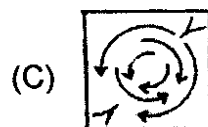
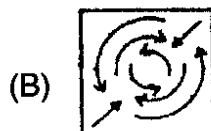
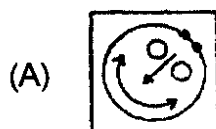
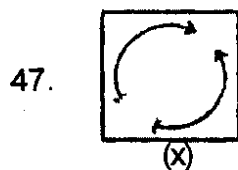
- (A) 1, 2, 3 ; 4, 5, 8 ; 6, 7, 9
(B) 1, 5, 6 ; 2, 3, 4 ; 7, 8, 9
(C) 1, 3, 5 ; 2, 4, 8 ; 6, 7, 9
(D) 1, 4, 7 ; 2, 5, 8 ; 3, 6, 9

46.

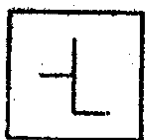


- (A) 1, 2, 3 ; 4, 5, 6 ; 7, 8, 9
(B) 1, 3, 5 ; 2, 4, 6 ; 7, 8, 9
(C) 1, 5, 9 ; 3, 6, 2 ; 4, 7, 8
(D) 1, 9, 7 ; 2, 8, 5 ; 3, 4, 6

Direction (Q. Nos. 47 – 50) : In each of the following questions, figure (x) is embedded in any one of the four alternative figures (A), (B), (C) or (D). Find the alternative which contains figure (x) as its part.

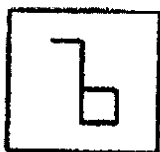


50.

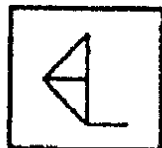


(X)

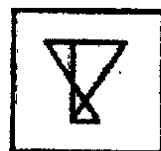
(A)



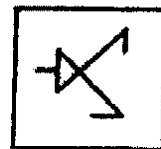
(B)



(C)



(D)



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SPACE FOR ROUGH WORK