No. of Printed Pages : **40**

OPENMAT – XLI

Entrance Test for Management Programmes 2017

February, 2017

Total No. of Questions : 200   *Time : 180 Minutes*

- All questions are *compulsory*.

- Use of calculator is *not* allowed. Rough work may be done in the space provided at the end of the Test Booklet.

- The Test Booklet has the following *four* tests :

  Test – I   General Awareness   No. of Questions 30

  Test – II   English Language   No. of Questions 50

  Test – III Quantitative Aptitude   No. of Questions 50

  Test – IV   Reasoning   No. of Questions 70

  Read the instructions given on the OMR Response Sheet carefully before you start.

How to fill up the information on the OMR Response Sheet

(Examination Answer Sheet)

1. Write your complete Enrolment Eo. in 9 digits. This should correspond to the enrolment number indicated by you on the OMR Response Sheet. Also write your correct name, address with pin code in the space provided. Put your signatures on the OMR Response Sheet with date. Ensure that the Invigilator in your examination hall also puts his signatures with date on the OMR Response Sheet at the space provided.

2. On the OMR Response Sheet student's particulars are to be filled in by pen. However use HB pencil for writing the Enrolment No. and Examination Centre Code as well as for blackening the circle bearing the correct answer number against the serial number of the question.

3. Do not make any stray remarks on this sheet.

4. Write correct information in numerical digits in Enrolment No. and Examination Centre Code Columns. The corresponding circle should be dark enough and should be filled in completely.

5. Each question is followed by four probable answers which are numbered 1, 2, 3 and 4. You should select and show only one answer to each question considered by you as the most appropriate or the correct answer. Select the most appropriate answer. Then by using HB pencil, blacken the circle bearing the correct answer number against the serial number of the question. If you find that answer to any question is none of the four alternatives given under the question, you should darken the circle with '0'.

6. If you wish to change your answer, ERASE completely the already darkened circle by using a good quality eraser and then blacken the circle bearing your revised answer number. If incorrect answer is not erased completely, smudges will be left on the erased circle and the question will be read as having two answers and will be ignored for giving any credit.

7. No credit will be given if more than one answer is given for one question. Therefore, you should select the most appropriate answer.

8. You should not spend too much time on any one question. If you find any particular question difficult, leave it and go to the next. If you have time left after answering all the questions, you may go back to the unanswered ones. There is no negative marking for wrong answers.

GENERAL INSTRUCTIONS

1. No cell phones, calculators, books, slide-rules, note-books or written notes, etc. will be allowed inside the examination hall.

2. You should follow the instructions given by the Centre Superintendent and by the Invigilator at the examination venue. If you violate the instructions, you will be disqualified.

3. Any candidate found copying or receiving or giving assistance in the examination will be disqualified.

4. The Test Booklet and the OMR Response Sheet (Answer Sheet) would be supplied to you by the Invigilators. After the examination is over, you should hand over the OMR Response Sheet to the Invigilator before leaving the examination hall. Any candidate who does not return the OMR Response Sheet will be disqualified and the University may take further action against him/her.

5. All rough work is to be done on the test booklet itself and not on any other paper. Scrap paper is not permitted. For arriving at answers you may work in the margins, make some markings or underline in the test booklet itself.

6. The University reserves the right to cancel scores of any candidate who impersonates or uses/adopts other malpractices or uses any unfair means. The examination is conducted under uniform conditions. The University would also follow a procedure to verify the validity of scores of all examinees uniformly. If there is substantial indication that your performance is not genuine, the University may cancel your score.

7. In the event of your qualifying the Entrance Test, the hall ticket should be enclosed with your admission form while submitting it to the University for seeking admission in Management Programmes along with your testimonials and programme fee. Admission forms received without hall ticket in original will be summarily rejected.

TEST I

GENERAL AWARENESS

1. Pravara, Purna and Pranhita are the main tributaries of

   (1) Mahanadi river

   (2) Krishna river

   (3) Godavari river

   (4) Kaveri river

2. The largest number of hydrogen compounds are formed through

   (1) Ionic bonding
   (2) H-bonding

   (3) Coordinate covalent bonding
   (4) Covalent bonding

3. According to the immunity theory, ageing is due to

   (1) Accumulation of errors

   (2) Degeneration of thymus

   (3) Reduced functioning of endocrine glands

   (4) Accumulation of waste products

4. The radioactive particles or rays with the greatest penetrating power are the

   (1) Gamma rays
   (2) Alpha particles

   (3) Beta particles
   (4) Protons

5. Igneous rocks are mostly associated with

   (1) Erosional activities
   (2) Volcanic activities

   (3) Seismic activities
   (4) Tectonic activities

6. Silk is a product of

   (1) Cuticle of larva
   (2) Cuticle of adult

   (3) Salivary gland of larva
   (4) Salivary gland of adult

7. Which of the following qualities of coffee is mostly grown in India and is in great demand in the international market ?

   (1) Liberica
   (2) Robusta

   (3) Mexican
   (4) Arabica

8. The national motto of India, 'Satyamev Jayate' inscribed below the Emblem of India is taken from

    (1) Mundaka Upanishad   (2) Katha Upanishad

    (3) Aitareya Upanishad   (4) Chandogya Upanishad

9. The members of the Constituent Assembly, who drafted the Constitution of India, were

    (1) Nominated by the British Parliament

    (2) Elected by the Legislative Assemblies of various provinces

    (3) Nominated by the Governor General

    (4) Elected by the Indian National Congress and the Muslim League

10. The Constitution of India is declared to have been adopted and enacted by the

    (1) People of India   (2) Constituent Assembly

    (3) British Parliament   (4) Indian Parliament

11. Who amongst the following Chief Justices of India acted as the President of India for a short term ?

    (1) Justice A.K. Sarkar

    (2) Justice P.N. Bhagwati

    (3) Justice M. Hidayatullah

    (4) Justice K. Subba Rao

12. Which of the following is the largest Lok Sabha constituency in terms of area ?

    (1) Secunderabad   (2) Ahmedabad

    (3) Kangra   (4) Ladakh

13. The main exporter of copper in the world is

    (1) Ghana   (2) India

    (3) Belgium   (4) Zambia

14. The ports on either end of the Suez Canal are

    (1) Cairo and Alexandria

    (2) Cairo and Port Said

    (3) Port Said and Suez

    (4) Suez and Cairo

15. The terms 'Pithoro', 'Mithila Paintings' and 'Warli' are traditional forms of

(1) Hardwood Paintings   (2) Murals

(3) Dye Paintings   (4) Sketch Paintings

16. The 'Gross' concept of Income Accounting can be changed to 'Net' concept by

(1) Adjusting for Depreciation

(2) Adjusting for Inflation

(3) Adjusting for Exchange rate fluctuations

(4) Adjusting for Bad debts of banks

17. The agency that formulates Foreign Direct Investment (FDI) policy in India is

(1) Foreign Investment Promotion Board

(2) Cabinet Committee on Economic Affairs

(3) Department of Industrial Policy and Promotion

(4) Department of Commerce

18. 'Kayakalp Council' is related to which of the following ?

(1) Ministry of Agriculture   (2) Ministry of Railways

(3) Ministry of Health   (4) Ministry of Defence

19. The first 'Digital State of India' is

(1) Kerala   (2) Andhra Pradesh

(3) Gujarat   (4) Maharashtra

20. Which of the following Vedas contains the earliest evidence of agricultural activities in India ?

(1) Rigveda   (2) Samaveda

(3) Atharvaveda   (4) Yajurveda

21. The mobile app 'BHIM', which was launched by the Government of India, stands for

(1) Build Interface for Money   (2) Built-up Interface for Modi

(3) Bharat Interface for Money   (4) Business Interface for Money

22. Who has been selected for the prestigious Jnanpith Award, 2016 ?

(1) Kedarnath Singh   (2) Shankha Ghosh

(3) Ravuri Bharadhwaja   (4) Chandrashekhara Kambara

23. Which of the following countries is the first in the world to use 'Drones' for National Mail Services ?

(1) France
(2) United Kingdom
(3) USA
(4) China

24. The book *"The Other One Percent : Indians in America"* was authored by

(1) Mohana Krishnan
(2) Joe Harris
(3) Balaji Vittal
(4) Sanjoy Chakravorty

25. Who has become the first Indian to be elected as the President of the International Hockey Federation ?

(1) Dhanraj Pillay
(2) Narinder Batra
(3) K.D. Singh
(4) Kirtan Singh

26. "Lakshmi", India's first banking robot, was launched by

(1) City Union Bank
(2) State Bank of India
(3) ICICI Bank
(4) Axis Bank

27. The winner of the Nobel Peace Prize, 2016 is

(1) Martti Ahtisaari
(2) Shinzo Abe
(3) Juan Manuel Santos
(4) Shirin Ebadi

28. The first woman President of UN General Assembly was

(1) Sarojini Naidu
(2) Durgabai Deshmukh
(3) Indira Gandhi
(4) Vijaya Lakshmi Pandit

29. The last Mughal emperor was

(1) Shah Alam II
(2) Bahadur Shah Zafar
(3) Nadir Shah
(4) Jahandar Shah

30. Who founded the city of Amritsar ?

(1) Guru Arjan Dev
(2) Guru Harkishan
(3) Guru Ram Das
(4) Guru Gobind Singh

ENGLISH LANGUAGE

Directions for questions number 31 to 45 : The section consists of two passages followed by questions based on the contents of the passages. Answer the questions following each passage on the basis of what is stated or implied in the passage.

Passage I

Culture is such a complicated concept that it does not lend itself to a single definition or a simple description. It brings to mind different images to different people. In its broadest sense, it includes a wide variety of constructs such as the mental habits, personal prejudices, moral values, social customs, artistic achievements, and aesthetic preferences of particular societies. Recognizing the amorphous nature of the concept of culture, anthropologists thought it fit to distinguish between *Culture* with a capital C and *culture* with a small c. The former is a relatively societal construct referring to the general view of culture as creative endeavours such as theatre, dance, music, literature, and art. The latter is a relatively personal construct referring to the patterns of behaviour, values, and beliefs that guide the everyday life of an individual or a group of individuals within a cultural community.

Historically, the cultural orientation that informed L2 learning and teaching was confined mostly to Culture with a big C. It is only after World War II, when language communication became the primary goal of language learning and teaching, that learners and teachers alike started emphasizing the importance of everyday aspects of cultural practices, that is, culture with a small c. Whatever its orientation, culture teaching played a rather subterranean role in most L2 education. It became part of what Michael Byram (1989) has called "the hidden curriculum", indirectly seeking to create in the learner an empathy towards and an appreciation for the culture of the target language community. This hidden agenda has been the order of things from time immemorial. In a comprehensive review of twenty-five centuries of language teaching, Louis Kelly (1966, p. 378) has pointed out that "the cultural orientation of language teaching has always been one of its *unstated* aims".

According to a review by H.H. Stern (1992), culture teaching has generally included a cognitive component, an affective component, and a behavioural component. A focal point of the cognitive, affective and behavioural components of teaching culture has always been the native speaker of the target language. As Stern (1992) reiterates, "One of the most important aims of culture teaching is to help the learner gain an understanding of the native speaker's perspective". It is a matter of the L2 learner "becoming sensitive to the

state of mind of individuals and groups within the target language community". The teacher's task, then, is to help the learner "create a network of mental associations similar to those which the items evoke in the native speaker". The overall objective of culture teaching, then, is to help L2 learners develop the ability to use the target language in culturally appropriate ways for the specific purpose of empathizing and interacting with native speakers of the target language.

31. One of the following is the primary aim of the passage :

(1) Learners must understand diverse cultures

(2) Description of different components of culture

(3) To understand the difference between Culture with a capital C and culture with a small c

(4) Help second language learners use the target language in culturally appropriate ways

32. The phrase "Recognizing the amorphous nature of the concept of culture" means

(1) knowing that the concept of culture cannot be understood

(2) understanding that culture cannot be concretely defined

(3) knowing that culture is a formless and shapeless entity

(4) understanding that the concept of culture can never be fully understood

33. Culture with a small c refers to

(1) artistic achievements in the daily life of individuals

(2) social customs of learners of second language

(3) behaviours and values in the daily life of individuals

(4) creative and aesthetic aspects of society

34. The phrase "... culture teaching played a rather subterranean role in most L2 education" refers to

(1) a subversive role

(2) a rather cynical role

(3) an invisible role

(4) a subservient role

35. An appropriate title to the passage would be

(1) Raising Cultural Awareness of L2 Learners

(2) Celebrating Diversity among Learners

(3) The Hidden Agenda

(4) Cultural Profiling

36. The author of the passage is likely to be

(1) A sociologist

(2) An educationist

(3) An anthropologist

(4) A language teacher

37. All the following are mentioned in the passage *except*

(1) It was the general view of culture that was taught from the time of World War II.

(2) The "hidden curriculum" is rather insidiously included in the L2 classroom.

(3) There are three major components to teaching culture.

(4) The main emphasis of teaching culture in the L2 classroom is to enable learners to engage appropriately with native speakers of the target language.

38. The most appropriate sentence following the passage would be :

(1) While there are merits in the notions of Colour Purple and third culture, it seems to me that a true understanding of the cultural dynamics of the L2 classroom can emerge only through an understanding of the individual cultural identity that teachers and learners bring with them.

(2) One of the engines that drives both economic and cultural globalisation is global electronic communication, the Internet.

(3) Such an approach is based on a limited view of culture in at least two important ways.

(4) Second, the traditional approach to the teaching of culture also ignores the rich diversity of world views that learners bring with them to the language classroom.

Passage II

Where does all this lead, in ethical and political terms ? In our own concluding essay to *The Great Ape Project*, Paola Cavalieri and I point to an international organization that can serve as a political model for the liberation of the great apes: the Anti-Slavery Society. In the last two-hundred years, human slavery has been eliminated, or virtually so, from the face of the Earth. In laboratories, zoos, circuses, and elsewhere, the great apes remain the most abject of slaves. In 1991, the United States government set official minimum standards for cages for laboratory chimpanzees. The recommended cage size for permanently confining a single adult chimpanzee was $5 \times 5 \times 7$ feet.

Can we put an end to the slavery of the great apes ? Since the launch of the Great Ape Project in 1993 there have been promising signs of change in attitudes toward the non-human great apes. In Britain, the government has said that it will no longer allow great apes to be the subject of harmful scientific experimentation. In the United States, a National Science Foundation report on chimpanzees in laboratories recommended that — in contrast to the methods normally applied to other animals used in research — chimpanzees surplus to research requirements should not be killed but should be "retired". In New Zealand, animal welfare legislation enacted in 1999 included a clause prohibiting the use of "non-human hominoids" — that is, great apes — in research, unless the research was intended to benefit them, either individually or as a species. In hailing the legislation as a world first, the government minister responsible for its passage through parliament specifically referred to "the advanced cognitive and emotional capacity of the great apes" as the reason for the special status being accorded to them.

These are the early signs of what could become a more fundamental change. It needs to happen soon, not only for the sake of those apes now enslaved in the developed world, but also for those still living freely in their original lands. In Africa, and in Indonesia, the great apes are everywhere endangered by the clearing and burning of the forests in which they live. In Africa, chimpanzees, bonobos and gorillas face an additional threat: foreign logging companies are building roads into the forests, providing access for hunters who shoot them for "bushmeat", often to be sold at high prices in markets and restaurants hundreds of miles away. If this trade is not stopped soon, there will be very few free-living African apes left.

Extending the community of equals to the great apes is a first step towards the broader moral community that should eventually include all sentient creatures. We imagine that there is a vast gulf between us and other species. This gulf has disastrous consequences not only for the great apes, but for all animals. The Great Ape Project is not merely the champion of the one relatively small group of animals over others, but rather a bridge that will reduce this gulf, and so lead to a different attitude towards all sentient creatures.

39. The author is ultimately focussing on
   (1) an equitable attitude towards all life
   (2) end of slavery of the apes
   (3) end of destruction of habitats of apes
   (4) description of threats to hominoids

40. The reason why the author is concentrating on apes is because
   (1) they are most used in medical experiments
   (2) they have fairly advanced cognitive and emotional capacity
   (3) this will help to reduce the gap between humans and other sentient creatures
   (4) he is anti-slavery

41. The sentence "The recommended cage size for permanently confining a single adult chimpanzee was 5 × 5 × 7 feet" suggests that the author is
   (1) stating a fact   (2) a precise researcher
   (3) unhappy with the arrangement   (4) satisfied with the arrangement

42. The legislation of 1999 included one of the following :
   (1) Apes could not be used for scientific experiments·
   (2) Apes could only be used for experiments which benefited them
   (3) Apes should be retired after experimentation
   (4) Only smaller animals could be used for experiments ·

43. The style of the passage is
   (1) Descriptive   (2) Argumentative
   (3) Persuasive   (4) Narrative

44. A suitable title to the passage would be
   (1) Towards Equality of All Species
   (2) Experimentation on Animals and their Disastrous Consequences
   (3) The Great Ape Project
   (4) Extinction of the Ape

45. All the points are mentioned in the passage *except*
   (1) Granting equality to apes is the first step towards a planet where all living beings have an equal right to existence.
   (2) Granting basic rights to apes is gaining strong political support at an international level.
   (3) Animal liberation is that basic principle of equality that entitles us to regard all human beings as equal.
   (4) Human slavery has virtually been eliminated from society.

Directions for questions number 46 to 50 : *Each of these questions consists of a word in capital letters followed by four alternative words. From among the alternatives, choose the word most nearly* **similar** *in meaning to the word in capital letters in each case.*

46. CAPRICE
  - (1) Whim
  - (2) Legend
  - (3) Prisoner
  - (4) Honesty

47. AFFECTATION
  - (1) Similarity
  - (2) Emissary
  - (3) Superannuation
  - (4) Pretension

48. NASCENT
  - (1) Odious
  - (2) Domestic
  - (3) Budding
  - (4) Insipid

49. DEPORT
  - (1) Expulsion
  - (2) Helplessness
  - (3) Impoverishment
  - (4) Denial

50. DERISION
  - (1) Depravity
  - (2) Devastation
  - (3) Devaluing
  - (4) Contempt

Directions for questions number 51 to 55 : *Each of these questions consists of a word in capital letters followed by four alternative words. From among the alternatives, choose the word most nearly* **opposite** *in meaning to the word in capital letters in each case.*

51. NONENTITY
  - (1) Important
  - (2) Immortal
  - (3) Amoral
  - (4) Moral

52. MULTIFARIOUS
  - (1) Ardent
  - (2) Manifold
  - (3) Misanthrope
  - (4) Singular

53. COUNTERMAND
  - (1) Complete
  - (2) Accommodate
  - (3) Ratify
  - (4) Preside

54. IMMUTABLE
  (1) Uniform
  (2) Candid
  (3) Unvarying
  (4) Volatile

55. PHILANTHROPIC
  (1) Unassuming
  (2) Ungainly
  (3) Callous
  (4) Dismal

Directions for questions number 56 to 60 : Each of these questions consists of a sentence with two blanks, followed by four alternative words or set of words. In each case select the word / set of words for each blank that best fits the meaning of the sentence as a whole.

56. He is bound to succeed because his _____ nature will not permit him to _____ .
  (1) pernicious, subsist
  (2) devoted, shirk
  (3) imperious, follow
  (4) persistent, quit

57. In a free and democratic country each and every person has rights as well as duties and it is of _____ importance that everything is _____ in the right perspective.
  (1) great, done
  (2) significant, examined
  (3) utmost, viewed
  (4) overwhelming, taken

58. The speech _____ with subtle threats has resulted in _____ tension in the sensitive areas of the city.
  (1) started, reduced
  (2) replete, increased
  (3) full, escalating
  (4) forced, dissolving

59. The education minister emphasized the need to deliver and _____ each student's _____ talents.
  (1) enhance, dormant
  (2) belittle, innate
  (3) suppress, potential
  (4) develop, intricate

60. In India, governance has been a/an _____ problem, one very difficult to change, owing to the deep-rooted bureaucracy and _____ lines of power.
  (1) intractable, opaque
  (2) uncontrollable, clear
  (3) stubborn, obscure
  (4) indomitable, cloudy

Directions for questions number 61 to 65 : *Identify that part of the sentence which is incorrect.*

61. (1) The hotel owners want (2) to attract more tourists (3) though they (4) are advertising heavily.

62. (1) I have just now received (2) your letter and I have understood (3) that you will be coming (4) to Delhi next week.

63. (1) These days I generally (2) take my breakfast (3) at seven because (4) I waking up at five.

64. (1) After the burglary, (2) they installed a sophisticated alarm system (3) as an insurance (4) towards further losses.

65. (1) She hungered affection (2) from her children (3) but they neglected (4) her shamefully.

Directions for questions number 66 to 70 : *Complete the sentences with the correct options.*

66. The story is about a boy who _____ away from home and goes to the sea.

   (1) runs   (2) ran

   (3) will run   (4) has run

67. Smriti apologized _____ her brother's indecent behaviour.

   (1) of   (2) in

   (3) for   (4) at

68. We _____ the house when our parents returned.

   (1) has been cleaning   (2) are cleaning

   (3) had cleaning   (4) were cleaning

69. _____ no one except Rohit and Renu know the answer ?

   (1) Does   (2) Do

   (3) Are   (4) Has

70. _____ you mind shifting a little please ?

   (1) Could   (2) Would

   (3) Should   (4) Can

Directions for questions number 71 to 75 : In all these questions, either a part or the whole of the sentence is underlined. The sentence is followed by four ways of writing the underlined part. Select the alternative which represents the correct way of writing the underlined part as per standard English.

71. People are learning that their concept of a researcher, <u>toiling alone in his laboratory and who discovers miraculous cures</u> has been highly idealized.
    (1) toiling in his laboratory by himself and discovers miraculous cures
    (2) toiling alone in his laboratory to discover miraculous cures
    (3) who toil alone in the laboratory and discover miraculous cures
    (4) toiling in his laboratory to discover miraculous cures by himself

72. <u>She not only was competent but also friendly</u> in her behaviour.
    (1) Not only was she competent but friendly also
    (2) She not only was competent but friendly also
    (3) She was not only competent but also friendly
    (4) She was not only competent but friendly also

73. <u>If they would have taken greater care</u> in the disposal of nuclear waste, the disaster would not have occurred.
    (1) Unless they took greater care
    (2) Had they not taken greater care
    (3) If they had taken greater care
    (4) If they took greater care

74. The set of propositions <u>which was discussed by the panel have</u> been published in the journal.
    (1) which were discussed by the panel have
    (2) that was discussed by the panel has
    (3) which were discussed by the panel has
    (4) which was discussed, by the panel, has

75. In its final report, the commission proposed, <u>raising the age of drinking legally</u> from eighteen to twenty-one.
    (1) that the legal drinking age be raised
    (2) a rise of the legal drinking age
    (3) that the legal drinking could be raised
    (4) raising the age of drinking legally

Directions for questions number 76 to 80 : *Each of these questions consists of an idiom, followed by four alternative words or phrases. Select the word or phrase which gives the closest meaning of the idiom in each case.*

76. To beat a retreat
   (1) to retire before a superior force
   (2) to participate in the ceremony of the beating of the retreat
   (3) to push back when faced with an enemy
   (4) to injure someone badly

77. To bear the brunt of
   (1) to be ready to fight
   (2) to be able to bear pain
   (3) to take the main force of the attack
   (4) to be fiercely attacked

78. To steal a march on
   (1) to steal something precious
   (2) to march in a quiet manner
   (3) to go far away by marching steadily
   (4) to gain advantage

79. To pass muster
   (1) to be accepted as suitable
   (2) to pass things around on the table
   (3) to abandon an undertaking
   (4) to pass important exams easily

80. To be under a cloud
   (1) to escape from rain
   (2) to face rainy weather
   (3) to be out of favour
   (4) to feel unwell

TEST III

QUANTITATIVE APTITUDE

81. A chemist was preparing a solution that should have included 35 milligrams of a chemical. If she actually used 36·4 milligrams, what was her percentage error (to the nearest 0·01%) ?

(1) 0·05%
(2) 1·40%
(3) 3·85%
(4) 4·00%

82. A retailer buys a radio from the wholesaler for ₹ 75·00. He then marks up the price by 1/3 and sells it at a discount of 20%. What was his profit on the radio (to the nearest paisa) ?

(1) ₹ 5·00
(2) ₹ 6·67
(3) ₹ 7·50
(4) ₹ 10·00

83. If the radius of a circle is increased by 50%, what will be the percent increase in the circumference of the circle ?

(1) 25%
(2) 50%
(3) 100%
(4) 150%

84. On a map, 1 inch represents 1,000 miles. If the area of a country is actually 16 million square miles, what is the area of the country's representation on the map ?

(1) 4 square inches
(2) 16 square inches
(3) 4,000 square inches
(4) 16,000 square inches

85. If the length of a rectangle is increased by 120%, and its width is decreased by 20%, what happens to the area of the rectangle ?

(1) It decreases by 4%
(2) It increases by 24%
(3) It increases by 76%
(4) It increases by 100%

86. If 10 men can survive for 24 days on 15 cans of rations, how many cans will be needed for 8 men to survive for 36 days ?

(1) 15 cans
(2) 16 cans
(3) 18 cans
(4) 19 cans

87. Two successive discounts of 20% and 12% are equivalent to a single discount of

(1) 16·0%
(2) 29·6%
(3) 31·4%
(4) 32·0%

88. A man rowed 3 miles upstream in 90 minutes. If the river flowed with a current of 2 miles per hour, how long did the man's return trip take ?

(1) 20 minutes
(2) 30 minutes
(3) 45 minutes
(4) 60 minutes

89. If a man can run p miles in x minutes, how long will it take him to run q miles at the same rate ?

(1)   pq/x minutes

(2)   px/q minutes

(3)   q/px minutes

(4)   qx/p minutes

90. If 6 workers can complete 9 identical jobs in 3 days, how long will it take 4 workers to complete 10 such jobs ?

(1)   3 days   (2)   5 days

(3)   6 days   (4)   more than 6 days

91. If Robert can seal 40 envelopes in one minute, and Paul can do the same job in 80 seconds, how many minutes (to the nearest minute) will it take the two of them, working together, to seal 350 envelopes ?

(1)   4 minutes   (2)   5 minutes

(3)   6 minutes   (4)   8 minutes

92. At a cost of ₹ 2·50 per square yard, what would be the price of carpeting a rectangular floor, 18 ft × 24 ft ?

(1)   ₹ 120   (2)   ₹ 360

(3)   ₹ 750   (4)   ₹ 1,080

93. Ten litres of 15% salt solution is mixed with 15 litres of 10% salt solution. What is the concentration of the resulting solution ?

(1)   10%   (2)   12%

(3)   12·5%   (4)   13%

94. A broken clock is set correctly at 12:00 noon. However, it registers only 20 minutes for each hour. In how many hours will it again register the correct time ?

(1)   12   (2)   18

(3)   24   (4)   30

95. Which of the following figures has the largest area ?
(1)   A square with a perimeter of 12 inches
(2)   A circle with a radius of 3 inches
(3)   A right triangle with sides of 3, 4 and 5 inches
(4)   A rectangle with a diagonal of 5 inches

96. If the diagonal of a square is 16 inches long, what is the area of the square ?
(1)   64 square inches   (2) $64\sqrt{2}$ square inches
(3)   128 square inches   (4)   256 square inches

97. The 20-inch-diameter wheels of one car travel at a rate of 24 revolutions per minute, while the 30-inch-diameter wheels of another car travel at a rate of 18 revolutions per minute. What is the ratio of the speed of the second car to that of the first ?

(1) 1 : 1

(2) 3 : 2

(3) 6 : 5

(4) 9 : 8

98. If the area of a circle is equal to the area of a rectangle, one of whose sides is equal to π, express the other side of the rectangle, x, in terms of the radius of the circle, r.

(1) $x = r$

(2) $x = \pi r$

(3) $x = r^2$

(4) $x = \sqrt{r}$

99. The area of a square is $81p^2$. What is the length of the square's diagonal ?

(1) $9p$

(2) $9p\sqrt{2}$

(3) $18p$

(4) $9p^2$

100. How many circles, each with a 4-inch radius, can be cut from a rectangular sheet of paper, measuring 16 inches × 24 inches ?

(1) 6

(2) 7

(3) 8

(4) 12

Questions no. 101 – 105 are based on the following table chart :

The following chart is a record of the performance of a cricket team for the first seven weeks of the season :

	Games won	Games lost	Total no. of games played
First Week	5	3	8
Second Week	4	4	16
Third Week	5	2	23
Fourth Week	6	3	32
Fifth Week	4	2	38
Sixth Week	3	3	44
Seventh Week	2	4	50

101. How many games did the team win during the first seven weeks ?

(1) 32

(2) 29

(3) 25

(4) 21

102. What percent of the games did the team win ?

    (1)   75%   (2)   60%

    (3)   58%   (4)   29%

103. According to the chart, which week was the worst for the team ?

    (1)   Fourth week   (2)   Fifth week

    (3)   Sixth week   (4)   Seventh week

104. Which week was the best week for the team ?

    (1)   First week   (2)   Third week

    (3)   Fourth week   (4)   Sixth week

105. If there are fifty more games to play in the season, how many more games must the team win to end up winning 70% of the games ?

    (1)   39   (2)   35

    (3)   41   (4)   34

106. How many men need to be employed to complete a job in five days if ten men can complete half the job in seven days ?

    (1)   7   (2)   14

    (3)   28   (4)   30

107. Ajai and Vijai can together paint their house in 30 days. After working for 20 days, Ajai has to go out and Vijai finishes the remaining work in the next 30 days. If Vijai had gone away after 20 days instead of Ajai, then Ajai would have completed the remaining work in

    (1)   15 days   (2)   20 days

    (3)   25 days   (4)   35 days

108. The average height of a class of 40 students is 156·5 cm. If one student with a height of 146 cm leaves the class and a new student joins the class, then the average height increases by 0·5 cm. The height of the new student is

    (1)   157 cm   (2)   166 cm

    (3)   170 cm   (4)   176 cm

109. A number is increased by 20% and again increased by 20%. In order to get back the original number, find out by what percentage should the increased number be reduced.

    (1) $21\dfrac{11}{31}\%$ (2) $30\dfrac{5}{9}\%$

    (3)   43%   (4) $30\dfrac{4}{9}\%$

110. A shopkeeper allows a discount of 10% on a watch and still makes a profit of 12%. If the cost price of the watch is ₹ 450, then what is the marked price ?

(1) ₹ 520

(2) ₹ 540

(3) ₹ 560

(4) ₹ 490

111. A steam boat goes down the stream from Port A to Port B in 8 hours. It covers the same distance upstream in 10 hours. If the speed of the stream is 4 km/hr, find the distance between Ports A and B.

(1) 350 km

(2) 400 km

(3) 320 km

(4) 310 km

112. The inner circumference of a circular race track, 14 m wide, is 440 m. Find the radius of the outer circle.

(1) 70 m

(2) 84 m

(3) 87 m

(4) 75 m

113. Ram covers the distance from A to B at the speed of 6 km/hr and from B to A at the speed of 12 km/hr. What is the average speed/hr ?

(1) 8 km/hr

(2) 8·5 km/hr

(3) 9 km/hr

(4) 10 km/hr

114. Laxman went 15 km to the west from my house, then turned left and walked 20 km. He then turned east and walked 25 km and finally turning left covered 20 km. How far is he from my house ?

(1) 5 km

(2) 10 km

(3) 40 km

(4) 80 km

115. In a mixture of 28 litres, the ratio of milk and water is 5 : 2. Another 2 litres of water is added to the mixture. The ratio of milk and water in the new mixture is

(1) 1 : 1

(2) 2 : 1

(3) 3 : 1

(4) 4 : 1

116. The value of a machine depreciates at the rate of 15% per annum. If the price of a new machine is ₹ 60,000, its value after 2 years will be

(1) ₹ 43,350

(2) ₹ 45,000

(3) ₹ 52,570

(4) ₹ 51,750

117. 80% of P = 40% of Q and Q = X% of P. Then the value of X is

(1) 360

(2) 200

(3) 300

(4) 250

118. The population of a town increases by 10% every year. If it is 16093 now, its population 2 years ago was

(1) 13300

(2) 14200

(3) 14750

(4) 15265

119. If A : B is 2 : 3 and B : C is 3 : 4, then A : C is equal to

(1) 2 : 3

(2) 6 : 7

(3) 5 : 6

(4) 1 : 2

120. If the numerator of a fraction is increased by 15% and the denominator is increased by 10%, then the value of the fraction is 15/26. The original fraction is

(1) 130/223

(2) 158/229

(3) 133/462

(4) 165/299

121. X varies directly as Y varies and Z varies inversely as Y varies. At a time Y = 10, X = 20, Z = 5. If Y is changed to 20, then the value of Z is

(1) 2·5

(2) 5

(3) 10

(4) 3

122. If a box containing 10 mirrors is dropped, which of the following *cannot* be the ratio of broken mirrors to unbroken mirrors ?

(1) 1 : 1

(2) 2 : 3

(3) 3 : 2

(4) 3 : 4

123. If 5 (P's Capital) = 10 (Q's Capital) = 15 (R's Capital), then the ratio of their capital is

(1) 6 : 3 : 2

(2) 2 : 7 : 9

(3) 8 : 5 : 3

(4) 2 : 3 : 1

124. The difference between a discount of 50% on ₹ 500 and two successive discounts of 45% and 5% on the same amount is

(1) ₹ 15

(2) ₹ 11·25

(3) ₹ 10

(4) ₹ 12·25

125. A man rows upstream 10 km and downstream 20 km taking 4 hours each time. The velocity of the current is

(1) 2 kmph

(2) 2·5 kmph

(3) 1·25 kmph

(4) 1·5 kmph

126. The missing number of the sequence 0, 2, 8, 18, __, 50 is

(1) 28

(2) 30

(3) 32

(4) 36

127. The next number of the sequence 2, 5, 10, 14, 18, 23, 26, 32, __ is

(1) 33

(2) 34

(3) 36

(4) 37

128. In a school, the average age of the students is 6 years, and the average age of 12 teachers is 40 years. If the average age of the combined group of all the teachers and the students is 7 years, then the number of students is

(1) 396

(2) 400

(3) 408

(4) 416

129. The average of three numbers is 77. The first number is twice the second and the second number is twice the third. The second number is

(1) 33

(2) 66

(3) 77

(4) 32

130. Given that 10% of A's income = 15% of B's income = 20% of C's income. If the sum of their income is ₹ 7,800, then B's income is

(1) ₹ 3,600

(2) ₹ 3,000

(3) ₹ 2,400

(4) ₹ 1,800

TEST IV
REASONING

131. Find the number of triangles in the given figure.
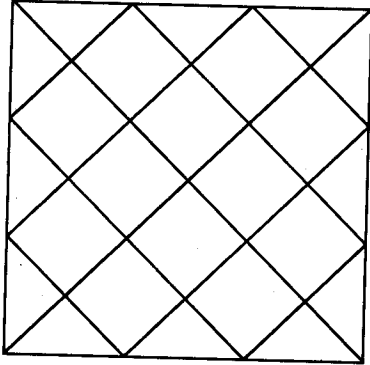
(1) 28

(2) 32

(3) 36

(4) 40

132. Find the minimum number of straight lines required to make the given figure.
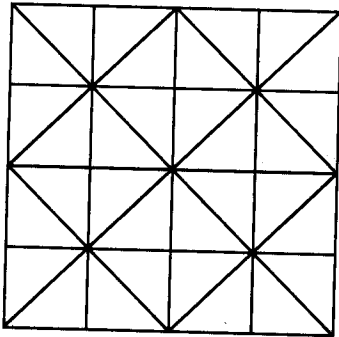
(1) 11

(2) 14

(3) 16

(4) 17

133. Find the number of triangles in the given figure.
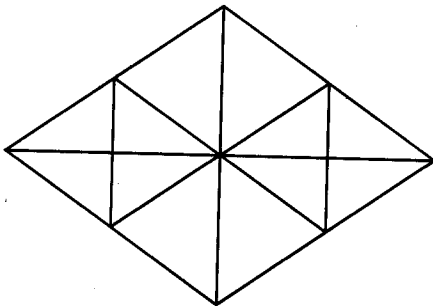
(1) 16

(2) 22

(3) 28

(4) 32

134. Find the minimum number of straight lines required to make the given figure.
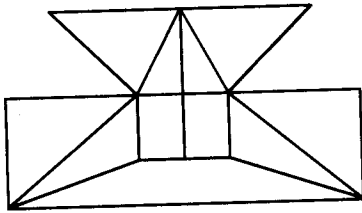
(1) 16

(2) 17

(3) 18

(4) 19

135. Count the number of triangles and squares in the given figure.
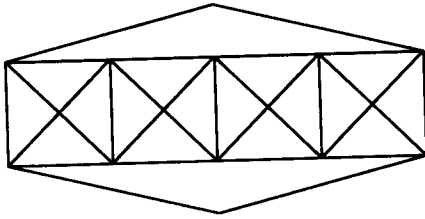
(1) 20 triangles, 7 squares

(2) 38 triangles, 9 squares

(3) 40 triangles, 7 squares

(4) 42 triangles, 9 squares

136. How many dots are there on the dice face opposite the one with three dots ?
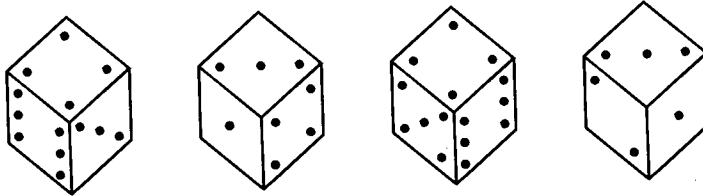
(1) 2

(2) 4

(3) 5

(4) 6

137. Observe the dots on a dice (one to six dots) in the following figures. How many dots are contained on the face opposite to that containing four dots ?
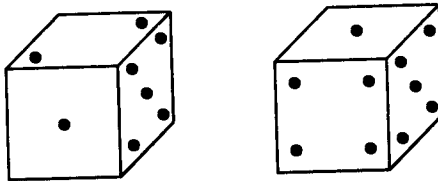
(1) 2

(2) 3

(3) 6

(4) Cannot be determined

138. A cube has six different symbols drawn over its six faces. The symbols are dot, circle, triangle, square, cross and arrow. Three different positions of the cube are shown in figures X, Y and Z.

Which symbol is opposite to the dot ?

X   Y   Z
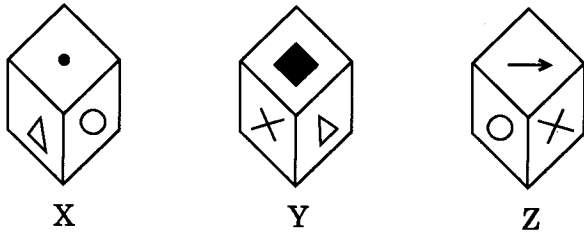
   (1) Circle   (2) Triangle

   (3) Arrow   (4) Cross

139. A dice is numbered from 1 to 6 in different ways. If 1 is adjacent to 2, 3 and 5, then which of the following statements is necessarily true ?

   (1) 4 is adjacent to 6   (2) 2 is adjacent to 5

   (3) 1 is adjacent to 6   (4) 1 is adjacent to 4

140. Three different positions X, Y and Z of a dice are shown in the figures given below. Which number lies opposite 6 ?

X   Y   Z
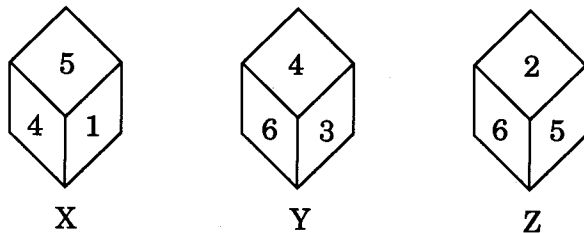
   (1) 1   (2) 2

   (3) 4   (4) 5

141. Group the given figures into three classes using each figure only once.

1	2	3
4	5	6
7	8	9
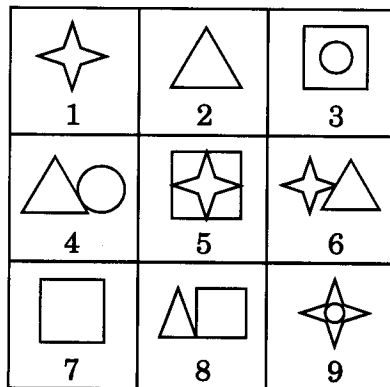
   (1) 3, 4, 9; 5, 7, 8; 1, 2, 6   (2) 1, 5, 6; 2, 4, 8; 3, 7, 9

   (3) 4, 6, 8; 3, 5, 7; 1, 2, 9   (4) 1, 2, 7; 3, 5, 9; 4, 6, 8

142. Group the given figures into three classes using each figure only once.
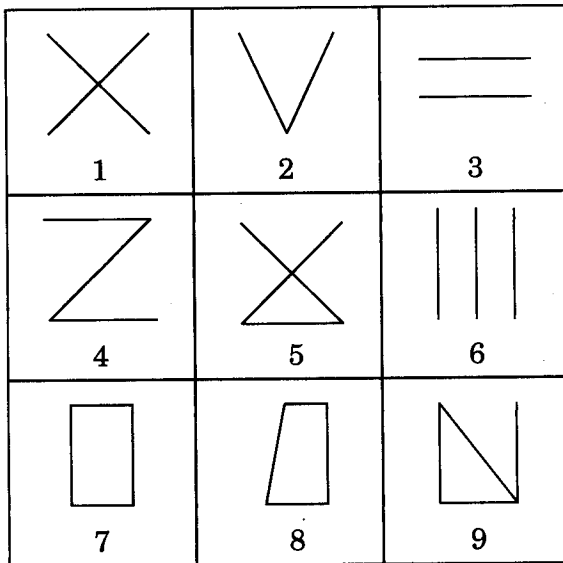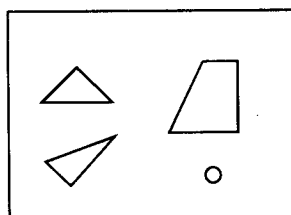

(1)   1, 2, 3;   4, 5, 6;   7, 8, 9

(2)   1, 3, 5;   2, 4, 6;   7, 8, 9

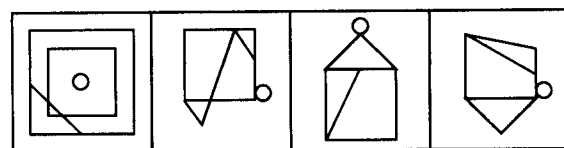(3)   1, 5, 9;   3, 6, 2;   4, 7, 8

(4)   1, 9, 7;   2, 8, 5;   3, 4, 6

143. A picture is copied onto a sheet of paper 8·5 inches by 10 inches. A 1·5 inch margin is left all around. What area in square inches does the picture cover ?

(1)   76   (2)   35

(3)   49   (4)   38·5

144. Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in the figure X.

(X)   (1)   (2)   (3)   (4)

(1)   1   (2)   2

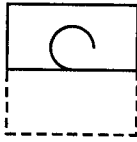(3)   3   (4)   4

145. Find out from amongst the four alternatives as to how the pattern as shown in the figure X would appear when the transparent sheet is folded at the dotted line.
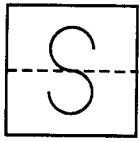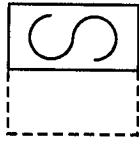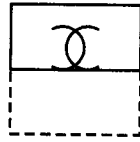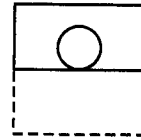
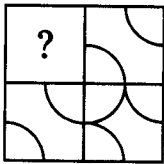

(X)   (1)   (2)   (3)   (4)

(1) 1   (2) 2

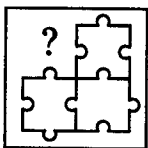(3) 3   (4) 4

146. Identify the figure that completes the pattern.

(X)   (1)   (2)   (3)   (4)

(1) 1   (2) 2

(3) 3   (4) 4

147. Identify the figure that completes the pattern.

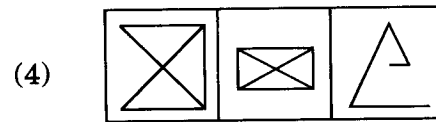(X)   (1)   (2)   (3)   (4)

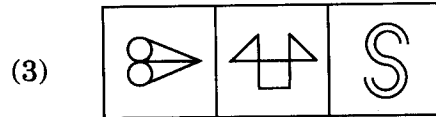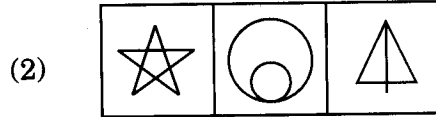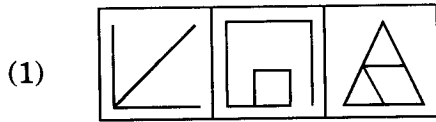(1) 1   (2) 2

(3) 3   (4) 4

148. Choose the set of figures which follows the given rule.

Rule : Any figure can be traced by a single unbroken line without retracting.

(1)

(2)

(3)

(4)

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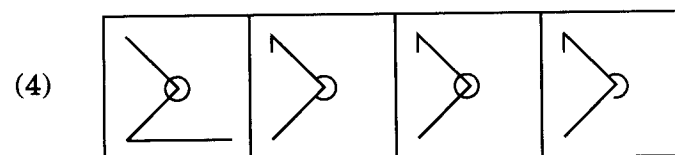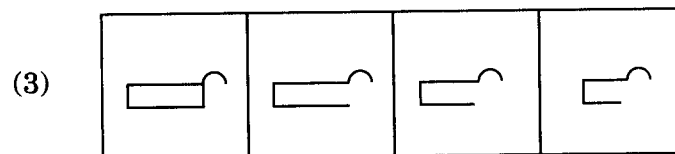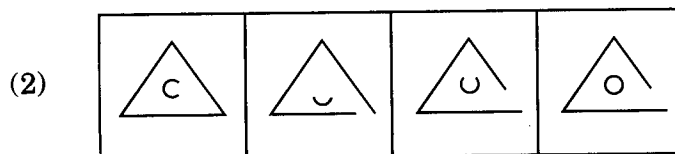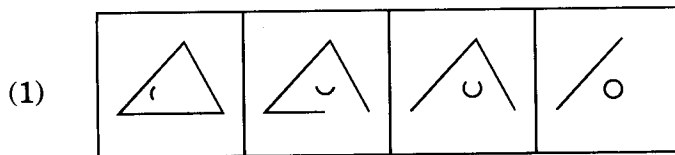
(3) 3   (4) 4

149. Choose the set of figures which follows the given rule.

Rule : Closed figures become more and more open and open figures become more and more closed.
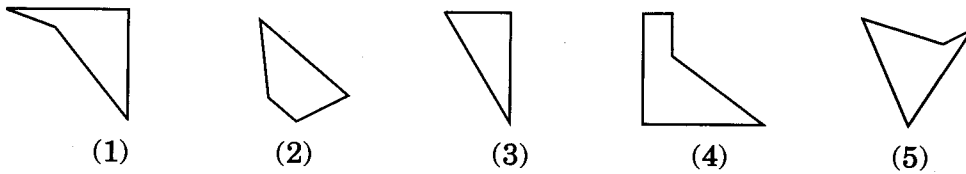

(1)

(2)

(3)

(4)

(1) 1   (2) 2

(3) 3   (4) 4

150. Select the alternative which represents three out of the five alternative figures which when fitted into each other would form a complete square.

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

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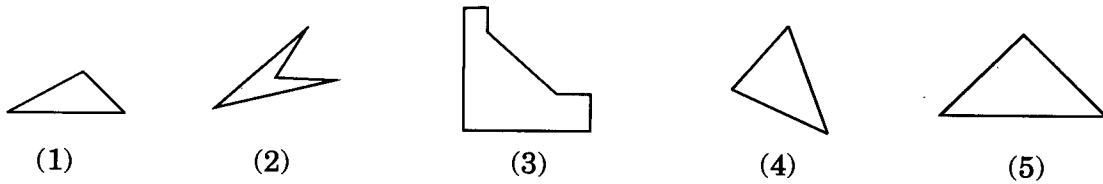(3)   2, 3, 5   (4)   2, 3, 4

151. Select the alternative which represents three out of the five alternative figures which when fitted into each other would form a complete square.

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

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

Directions for questions no. 152 and 153 : In each of the questions below, two statements I and II are given. These statements may be either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choices correctly depicts the relationship between these two statements.

152. I. The vegetable prices in the local market have increased manifold during the past few days.

  II. Incessant rains have created flood-like situation in most rural parts of the State.

  (1) Statement I is the cause and statement II is its effect.
  (2) Statement II is the cause and statement I is its effect.
  (3) Both the statements I and II are independent causes.
  (4) Both the statements I and II are effects of some common cause.

153. I. The Government has decided to hold a single entrance test for admission to all the medical colleges in India.

  II. The State Government has debarred students from other States to apply for the seats in the medical colleges in the State.

  (1) Statement I is the cause and statement II is its effect.
  (2) Statement II is the cause and statement I is its effect.
  (3) Both the statements I and II are independent causes.
  (4) Both the statements I and II are effects of some common cause.

Directions for questions no. 154 – 156 : Fill in the missing number.

154. 1, 8, 27, ____, 125

    (1)   50   (2)   54

    (3)   60   (4)   64

155. 1, 2, 6, 24, 120, ____

    (1)   600   (2)   720

    (3)   240   (4)   500

156. 1, 2, 3, 5, 7, 11, 13, ____

    (1)   15   (2)   19

    (3)   23   (4)   17

157. I.   Tanya is older than Eric.

      II.   Cliff is older than Tanya.

      III. Eric is older than Cliff.

    If the first two statements are true, the third statement is

    (1)   true   (2)   false

    (3)   uncertain   (4)   None of the above

158. I.   Class A has a higher enrollment than Class B.

      II.   Class C has a lower enrollment than Class B.

      III. Class A has a lower enrollment than Class C.

    If the first two statements are true, the third statement is

    (1)   true   (2)   false

    (3)   uncertain   (4)   None of the above

159. The question given below consists of six statements followed by options consisting of three statements put together in a specific order. Choose the option which indicates a valid argument containing logically related statements, that is, where the third statement is a conclusion drawn from the preceding two statements.

    A.   Some straightforward things are people.

    B.   All perennial things are cats.

    C.   Only cats are perennial.

    D.   All perennial things are people.

    E.   Some straightforward things are cats.

    F.   Some straightforward things are perennial.

    (1)   BCA   (2)   CFD

    (3)   DFA   (4)   EAB

Directions for questions no. 160 and 161 : *The questions given below consist of a statement, followed by two arguments numbered I and II. You have to decide which argument is a 'strong' argument and which is not.*

160. Should cutting of trees be banned altogether ?

Arguments :

I. Yes. It is very much necessary to do so to restore ecological balance.

II. No. A total ban would harm timber based industries.

(1) Only Argument I is strong

(2) Only Argument II is strong

(3) Neither Argument I nor Argument II is strong

(4) Both Arguments I and II are strong

161. Should the judiciary be independent of the executive ?

Arguments :

I. Yes. This would help curb the unlawful activities of the executive.

II. No. The executive would not be able to take bold measures.

(1) Only Argument I is strong

(2) Only Argument II is strong

(3) Either Argument I or Argument II is strong

(4) Neither Argument I nor Argument II is strong

Directions for questions no. 162 to 165 : *In each of the questions below, some statement(s) is/are given followed by assumptions/conclusions numbered I and II. You have to assume the statement(s) to be true even if it/they seem to be at a variance from the commonly known facts and then decide which of the given options is/are true or follow from the given statements.*

162. "If it does not rain throughout this month, most farmers would be in trouble this year."

Assumptions :

I. Timely rain is essential for farming.

II. Most farmers are generally dependent on rains.

(1) Only I is true   (2) Only II is true

(3) Either I or II is true   (4) Both I and II are true

163. The 'M' Cooperative Housing Society has put up a notice at its gate that salespersons are not allowed inside the society.

Assumptions :

I. Some of the salespersons stay away from 'M' Cooperative Society.

II. The security guard posted at the gate is able to stop the salespersons entering the society.

(1) Only I is true   (2) Only II is true

(3) Either I or II is true   (4) Both I and II are true

164. All windows are doors. No door is wall.

Conclusions :

I. No window is wall.

II. No wall is door.

(1) Only I follows (2) Only II follows

(3) Either I or II follows (4) Both I and II follow

165. Some blades are hammers. Some hammers are knives. Some knives are axes.

Conclusions :

I. Some axes are hammers.

II. Some knives are blades.

III. Some axes are blades.

(1) None follows (2) Only I follows

(3) Only II follows (4) Only III follows

Directions for questions no. 166 and 167 : *In each of the questions below, a statement is given followed by two courses of action numbered I and II. You have to assume everything in the statement to be true and on the basis of the information given in the statement, decide which of the suggested courses of action logically follow(s) for pursuing.*

166. The car dealer found that there was a tremendous response for the new XYZ's car booking with long queues of people complaining about the duration of business hours and arrangements.

Courses of Action :

I. People should make their arrangement of lunch and snacks while going for XYZ's car booking and be ready to spend several hours.

II. Arrangement should be made for more booking desks and increased business hours to serve more people in less time.

(1) Only I follows (2) Only II follows

(3) Neither I nor II follows (4) Both I and II follow

167. A large number of people in Ward X of the city are diagnosed to be suffering from a fatal malaria type.

Courses of Action :

I. The city municipal authority should take immediate steps to carry out extensive fumigation in Ward X.

II. The people in the area should be advised to take steps to avoid mosquito bites.

(1) Only I follows (2) Only II follows

(3) Neither I nor II follows (4) Both I and II follow

168. Throughout the ages the businessmen have helped build civilisation's great cities, provided people with luxuries and artists with patronage, and helped their fellow citizens to raise the standard of living. In the last few centuries the businessmen have seeded the Industrial Revolution around the world.

The passage best supports the statement that the businessmen

(1)   live luxurious and comfortable lives.

(2)   are the beneficiaries of the Industrial Revolution.

(3)   are capable of raising their standard of living.

(4)   have contributed to the growth of civilisation.

169. How many pairs of letters in the word 'CHAIRS' have as many letters between them in the word as in the alphabet ?

(1)   2   (2)   3

(3)   1   (4)   4

170. If in the word 'DISTURBANCE', the first letter is interchanged with the last letter, the second letter is interchanged with the tenth letter and so on, which letter would come after the letter T in the newly formed word ?

(1)   S   (2)   I

(3)   T   (4)   N

171. Fill in the blank.

    A, C, F, J, _____

(1)   M   (2)   R

(3)   L   (4)   O

172. Fill in the blank.

    1, 3, 4, 7, 9, 11, 16, 15, 25, 19, _____

(1)   24   (2)   23

(3)   36   (4)   37

173. There is a certain relation between two given words on one side of : : and one word is given on another side of : : while another word is to be found from the given alternatives, having the same relation with this word as the given pair has.

Select the best alternative.

Seismography : Earthquakes : : Taseometer : _?_

(1)   Landslides   (2)   Strains

(3)   Resistances   (4)   Volcanoes

174. 583 is related to 293 in the same way as 488 is related to

(1)   291   (2)   378

(3)   487   (4)   581

175. 'BF' is related to 'HL' in the same way as 'EI' is related to

(1) KO   (2) KN

(3) JN   (4) JO

176. There is a certain relation between two given words on one side of : : and one word is given on another side of : : while another word is to be found from the given alternatives, having the same relation with this word as the given pair has. Select the best alternative.

Anthropology : Man : : Anthology : _?_

(1) Nature   (2) Poems

(3) Trees   (4) Apes

177. Two bus tickets from city A to city B and three bus tickets from city A to city C cost ₹ 77 but three bus tickets from city A to city B and two bus tickets from city A to city C cost ₹ 73. What are the fares for cities B and C from city A ?

(1) ₹ 4, ₹ 23   (2) ₹ 13, ₹ 17

(3) ₹ 15, ₹ 14   (4) ₹ 17, ₹ 13

178. A tailor had a number of shirt-pieces to cut from a roll of fabric. He cuts each roll of equal length into 10 pieces. He cuts at the rate of 45 cuts a minute. How many rolls would be cut in 24 minutes ?

(1) 32 rolls   (2) 54 rolls

(3) 108 rolls   (4) 120 rolls

179. If you write down all the numbers from 1 to 100, then how many times do you write 3 ?

(1) 11   (2) 18

(3) 20   (4) 21

180. Today is Varun's birthday. One year from today he will be twice as old as he was 12 years ago. How old is Varun today ?

(1) 20 years   (2) 22 years

(3) 25 years   (4) 27 years

181. *Directions* : For the Assertion (A) and Reason (R) below, choose the correct alternative.

Assertion (A) : Pressure-cookers are fitted with ebonite handles.

Reason (R) : Ebonite is a good conductor of heat.

(1) Both A and R are true and R is the correct explanation of A

(2) Both A and R are true but R is not the correct explanation of A

(3) A is true but R is false

(4) A is false but R is true

182. Fill in the blank.

      A 16, C 25, E 36, G 49, ____

    (1) I 64   (2) K 64

    (3) I 81   (4) K 81

183. ***Directions :*** For the Assertion (A) and Reason (R) below, choose the correct alternative.

Assertion (A) : Diamond is used for cutting glass.

Reason (R) : Diamond has a high refractive index.

    (1) Both A and R are true and R is the correct explanation of A

    (2) Both A and R are true but R is not the correct explanation of A

    (3) A is true but R is false

    (4) A is false but R is true

184. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D ?

    (1) Grandfather   (2) Grandmother

    (3) Daughter   (4) Granddaughter

185. There are six persons A, B, C, D, E and F. C is the sister of F. B is the brother of E's husband. D is the father of A and grandfather of F. There are two fathers, three brothers and a mother in the group. Who is the mother ?

    (1) A   (2) B

    (3) C   (4) E

186. Choose the number pair/group which is different from the rest.

    (1) 9 : 64   (2) 4 : 27

    (3) 25 : 216   (4) 64 : 81

187. Choose the number pair/group which is different from others ?

    (1) 7 : 22   (2) 12 : 37

    (3) 8 : 33   (4) 15 : 46

188. Select the one which is different from the other three responses.

    (1) DEB   (2) RTP

    (3) HIF   (4) NOL

189. Choose the number which is different from others in the group.

    (1) 183   (2) 137

    (3) 121   (4) 231

190. In a certain code language COMPUTER is written as DPNQVUFS. How will MEDICINE be written in that code language ?

    (1) MFEDJJOE   (2) EOJDEJFM

    (3) MFEJDJOE   (4) NFEJDJOF

Directions for questions no. 191 and 192 : In each of the following questions, some data is given and a question has been asked. Find out if the data given in the statements is sufficient to answer the question.

191. In a certain code '13' means 'stop smoking' and '59' means 'injurious habit'. What is the meaning of '9' and '5' respectively in that code ?

    I.   '157' means 'stop bad habit'.

    II.   '839' means 'smoking is injurious'.

    (1)   If the data in statement I alone are sufficient to answer the question

    (2)   If the data in statement II alone are sufficient to answer the question

    (3)   If the data either in I or II alone are sufficient to answer the question

    (4)   If the data even in both the statements together are not sufficient to answer the question

192. On which day in January, did Subhas leave for Germany ?

    I.   Subhas has so far spent 10 years in Germany.

    II.   Subhas' friend Anil left for Germany on 15th February and joined Subhas 20 days after Subhas' arrival.

    (1)   If the data in statement I alone are sufficient to answer the question

    (2)   If the data in statement II alone are sufficient to answer the question

    (3)   If the data either in I or II alone are sufficient to answer the question

    (4)   If the data even in both the statements together are not sufficient to answer the question

193. If South-East becomes North, North-East becomes West and so on, what will West become ?

    (1)   North-East   (2)   North-West

    (3)   South-East   (4)   South-West

194. One morning after sunrise, Suresh was standing facing a pole. The shadow of the pole fell exactly to his right. To which direction was he facing ?

    (1)   East   (2)   West

    (3)   South   (4)   Data is inadequate

195. In the following question, a matrix of certain characters is given. These characters follow a certain trend, row-wise or column-wise. Find out this trend and choose the missing character accordingly.

72	24	6
96	16	12
108	?	18

    (1)   12   (2)   16

   (3)   18   (4)   20

196. In the following question, a matrix of certain characters is given. These characters follow a certain trend, row-wise or column-wise. Find out this trend and choose the missing character accordingly.

B	G	N
D	J	R
G	N	?

(1) U　　　　　　　　　　　　　　　(2) V

(3) W　　　　　　　　　　　　　　　(4) X

197. Which of the following Venn diagrams correctly illustrates the relationship among the classes ?

Tennis fans, Cricket players, Students

(1) 　　　　　　　(2)

(3) 　　　　　　　(4)
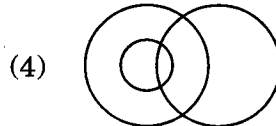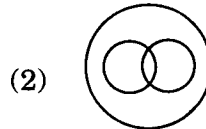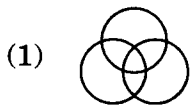
198. Out of 120 students in a school, 5% can play all the three games, Cricket, Chess and Carrom. It so happens that the number of players who can play any and only two games is 30. The number of students who can play Cricket alone is 40. What is the total number of students who can play Chess alone or Carrom alone ?

(1) 45　　　　　　　　　　　　　　(2) 44

(3) 46　　　　　　　　　　　　　　(4) 24

199. A sum of ₹ 1,890 has to be used to give 9 prizes to the customers of a supermarket for their overall academic purchases. If each prize is ₹ 30 less than its preceding prize, what is the least value of the prize ?

(1) ₹ 90　　　　　　　　　　　　　(2) ₹ 95

(3) ₹ 85　　　　　　　　　　　　　(4) ₹ 80

200. Fill in the blank.

7, 26, 63, _____

(1) 121　　　　　　　　　　　　　(2) 124

(3) 136　　　　　　　　　　　　　(4) 144