| Question Booklet<br>Series: | FOR ADMISSION THROUGH AIMS TEST FOR MANAGEMENT ADMISSIONS (ATMA) | Question Booklet<br>Number:                |  |
|-----------------------------|--|--|--|
| В                           | INSTRUCTIONS   |  |  |
| Roll Number:                |  | Exam Date:- 12/02/2017<br>2 p.m. to 5 p.m. |  |
| PID NUMBER :                |  |  |  |

Please read the following instructions carefully:

1) In the OMR Answer booklet clearly write your name in the Candidate name field as per ADMIT CARD. Clearly write and circle your Roll Number, Seat Number as per ADMIT CARD.

Clearly write and circle your Question Booklet Number, Question Booklet Series as mentioned in the QUESTION BOOKLET.

- 2) Strictly follow the instructions given by the Centre Supervisor / Room invigilator and those given on the Question Booklet.
- 3) Please mark the right responses with a pencil.
- 4) Candidates are not allowed to carry any papers, notes, books, calculators, cellular phones, scanning devices, pagers etc. to the Examination Hall. Any candidate found using, or in possession of such unauthorized material, indulging in copying or impersonation or adopting unfair means, is liable to be summarily disqualified and may be subjected to penal action.
- 5) After finishing the examination, hand over the complete question booklet, OMR Answer Sheet and admit card to the invigilator. DO NOT carry the question booklet or any part of it, outside the examination room. Doing so, is a punishable offence.
- 6) The test is of objective type with each question carrying 1 mark for correct response. Each question has only one correct response. There is negative marking of 0.25 for every wrong answer.

7) This Question Booklet contains a total of 180 questions and the total time allotted is 3 hours. The written test consists of questions on Verbal ability, Quantitative ability and Analytical ability.

Verbal Skill (Part A) - 1 to 30 Verbal Skill (Part B) - 31 to 60 Quantitative Skill (Part A) - 61 to 90 Quantitative Skill (Part B) - 91 to 120 Analytical-Skill (Part A) - 121 to 150 Analytical-Skill (Part B) - 151 to 180

- 8) Each objective question is followed by four responses. Your task is to choose the correct response and mark your response on the OMR Answer Sheet and NOT on the Question Booklet.
- 9) For marking response to a question, completely darken the CIRCLE so that the alphabet inside the CIRCLE is not visible. Darken ONLY ONE CIRCLE for each answer as shown in the example below. The CORRECT and the WRONG method of darkening the CIRCLE on the OMR sheet are given below.

Correct Method Wrong Method



- 10) In view of the tight time span, do not waste your time on a question, which you find to be difficult. Attempt easier questions first and come back to the difficult questions later during the test.
- 11) DO NOT make any stray marks anywhere on the OMR answer sheet. DO NOT fold or wrinkle the OMR answer sheet and the Subjective Response Sheets.
- 12) Rough work MUST NOT be done on the OMR answer sheet. Use your test booklet for this purpose.



#### **VERBAL SKILL**

#### **PART-A** (1 to 30)

| Question 1 to 5 Directions: By understanding the relationship    |
|--|
| between the first and the second word find the most related word |
| for the third word   |

1. Carpenter: Furniture:: Sculptor:?

(A) Egoist

(B) Egotist

(C) Egomaniac (D) Egocentric

| (A)                             | Scooter        | (B) Pot              | (C) Building        | (D) Statue       |  |  |  |  |
|---------------------------------|----------------|----------------------|---------------------|------------------|--|--|--|--|
| 2. Monkey: Chatter:: Elephant:? |                |                      |                     |                  |  |  |  |  |
|                                 |                | (B) Squeak           |                     | (D) Trumpet      |  |  |  |  |
| 3.                              | Ornithology    | : Birds : : Entomo   | logy:?              |                  |  |  |  |  |
| (A)                             | Insects        | (B) Worms            | (C) Mammals         | (D) Reptiles     |  |  |  |  |
| 4.                              | Patricide : Fa | ather : : Sororicide | : ?                 |                  |  |  |  |  |
| (A)                             | Mother         | (B) Human            | (C) Brother         | (D) Sister       |  |  |  |  |
| 5.                              | Shooting : B   | ullet:: Archery:     | ?                   |                  |  |  |  |  |
| (A)                             | Bow            | (B) Spear            | (C) Arrow           | (D) Rocket       |  |  |  |  |
|                                 |                |                      |                     |                  |  |  |  |  |
| Que                             | stion 6 to 10  | Directions: Fill i   | n the blank with    | most appropriate |  |  |  |  |
| word                            | d              |                      |                     |                  |  |  |  |  |
| 6.                              | r              | neans the ridiculor  | us and miserable f  | ailure.          |  |  |  |  |
| (A)                             | ) Chimera      | (B) Anomaly          | (C) Blunder         | (D) Fiasco       |  |  |  |  |
| 7.                              | Sharpness an   | d bitterness of the  | speech or temper    | is known as      |  |  |  |  |
|                                 | ·              |                      |                     |                  |  |  |  |  |
| (A)                             | ) Apathy (     | B) Alacrity (C)      | Assiduity (D)       | Acrimony         |  |  |  |  |
| 8.                              | He looks a     | at everything from   | a personal point of | of view          |  |  |  |  |

- 9. Docile person is \_\_\_\_\_(A) Hated (B) Lovable (C) Easily managed (D) Sick
- 10. Which philosophy is expressed by a sentence, "God is nonexistent!"
  - (A) Theism (B) Atheism (C) Agnosticism (D) Reverence

#### **Question 11 to 16 Directions: Comprehension**

Marie was born in 1867 in Warsaw, Poland, where her father was a Professor of Physics. At an early age, she displayed a brilliant mind and a blithe personality. Her great exuberance for learning prompted her to continue with her studies after high school. She became disgruntled, however, when she learned that the university in Warsaw was closed to women. Determined to receive a higher education, she defiantly left Poland and in 1891 entered the Sorbonne, a French university, where she earned her master's degree and doctorate in physics.

Marie was fortunate to have studied at the Sorbonne with some of the greatest scientists of her day, one of whom was Pierre Curie. Marie and Pierre were married in 1895 and spent many productive years working together in the physics laboratory. A short time after they discovered radium, Pierre was killed by a horse-drawn wagon in 1906. Marie was stunned by this horrible misfortune and endured heartbreaking anguish. Despondently she recalled their close relationship and the joy that they had shared in scientific research. The fact that she had two young daughters to raise by herself greatly increased her distress.

Curie's feeling of desolation finally began to fade when she was asked to succeed her husband as a physics professor at the Sorbonne. She was the first woman to be given a professorship at the world-famous university. In 1911 she received the Nobel Prize in chemistry for isolating radium. Although Marie Curie eventually suffered a fatal illness from her long exposure to radium, she never became disillusioned about her work. Regardless of the consequences, she had dedicated herself to science and to revealing the mysteries of the physical world.



|          | Marie by leaving Poland and travelling to France to nter the Sorbonne.   | 19. "It is not very cold. I don't think we need these woollen sweaters."  |  |  |  |  |  |
|----------|--|---|--|--|--|--|--|
|          | ner die Bottomie.  | "I don't think so,"   |  |  |  |  |  |
| (A) (    | Challenged authority (B) Showed intelligence   |   |  |  |  |  |  |
| (C)      | Behaved (D) Was distressed   | (A) Anyway (B) neither (C) either (D) too   |  |  |  |  |  |
|          | ven though she became fatally ill from working with radium,  farie Curie was never   | 20. If you don't understand the text, don't hesitate  |  |  |  |  |  |
| (A) Tı   | roubled (B) Worried (C) Disappointed (D) Sorrowful   | <ul><li>(A) ask a question</li><li>(B) asking a question</li><li>(C) to ask a question</li><li>(D) to asking a question</li></ul> |  |  |  |  |  |
| 13. M    | Sarie had a bright mind and a personality.   | 21. "Excuse me. Do you know where the railway station is?"  |  |  |  |  |  |
| (A) St   | rong (B) lighthearted (C) Humorous (D) Strange   | "It is the bus terminal."   |  |  |  |  |  |
|          | der began to fade when she returned to the Sorbonne o succeed her husband.   | (A) opposite of (B) opposed to (C) opposite with (D) opposite to  |  |  |  |  |  |
| (A) M    | isfortune (B) Anger (C) Wretchedness (D) Disappointment  | Question 22 to 26 Directions: Pick up the most appropriate Antonym for the given word   |  |  |  |  |  |
|          | When she learned that she could not attend the university in Warsaw, she felt  | 22. Enormous  |  |  |  |  |  |
| (A) H    | opeless (B) Annoyed (C) Depressed (D) Worried  | (A) tiny (B) soft (C) average (D) weak  |  |  |  |  |  |
| 16       | she remembered their joy together.   | 23. Exodus  |  |  |  |  |  |
| (A) D    | Dejectedly (B) Worried (C) Tearfully (D) Happily   | (A) Influx (B) return (C) arrival (D) restoration   |  |  |  |  |  |
| Question | n 17 to 21 Directions: Fill in the blanks by choosing most   |   |  |  |  |  |  |
| appropr  | riate option   | 24. Quiescent   |  |  |  |  |  |
| 17. T    | he social worker the two old sisters who were ill.   | (A) active (B) dormant (C) weak (D) unconcerned   |  |  |  |  |  |
|          | led to the house of (B) called on the house of (In the house of the ho | 25. Commissioned  |  |  |  |  |  |
|          | bhishek was thrilled to be such a beautiful and atteresting lady.  | (A) started (B) revoked (C) finished (D) terminated   |  |  |  |  |  |
|          |  | 26. Relinquish  |  |  |  |  |  |
| (A) in   | troduced (B) introduced at   | (A) Possess (B) abdicate (C) renounce (D) deny  |  |  |  |  |  |
| (C) in   | troduced with (D) introduced to  | (A) I ossess (B) additate (C) remodified (D) delly  |  |  |  |  |  |



## Question 27 to 30 Directions: Pick up the word with the closest meaning.

27. **Proxy** (A) authorized agent (B) absent (C) Substituted (D) Emulated 28. Mundane worldly (B) global (C) futile (D) spatial (A) 29. Inured (D) flattened (A) hardened (B) softened (C) adulterated 30. Patronize (A) oppose (B) support (C) bless (D) organize

# VERBAL SKILL PART- B (31 to 60)

## Question 31 to 33 Directions: Choose the most appropriate preposition to fill in the blank

We must finish this job \_\_\_\_\_ next Monday.

31.

| (A)  | till        | (B) until | (C) with     | (D) by  |  |  |  |
|--|-------------|-----------|--------------|---------|--|--|--|
|  |             |           |              |         |  |  |  |
|  |             |           |              |         |  |  |  |
| 32.  | I often tak | e walks   | the morning. |         |  |  |  |
| (A)  | on          | (B) at    | (C) by       | (D) in  |  |  |  |
| (A)  | OII         | (D) at    | (C) by       | (D) III |  |  |  |
| 33. The college library is open nine until four. |             |           |              |         |  |  |  |
| (4)  | 1           | (D) f     | (G) S        | (T)     |  |  |  |
| (A)  | between     | (B) from  | (C) for      | (D) at  |  |  |  |

## Question 34 to 36 Directions: Fill in the blank by choosing appropriate option

| 34.   | we cannot believe nim because ne never |                  |  |               |  |  |
|-------|--|------------------|--|---------------|--|--|
|       | grandiose pr                           | omises he had r  | nade.                                    |               |  |  |
| (A)   | Succeeded t                            | О                | (B) tired of                             |               |  |  |
| (C)   | delivered or                           | n                | (D) accomplished for                     |               |  |  |
| ca    | annot see hov                          | w anyone can be  | e deceived by it.  (C) cogent            |               |  |  |
| 36.   | Since Radh<br>trustworthy              | na believed Kris | shna to be both car<br>consider the poss | ndid and      |  |  |
| (A) 1 | mistaken                               | (B) critical     | (C) irrelevant                           | (D) insincere |  |  |

#### Question 37 to 43 Directions: Comprehension

On their visit to school specifically, fire fighters tell the students these things: A smoke detector should be placed on each floor of a home. While sleeping, people are in particular danger of an emergent fire, and there must be a detector outside each sleeping area. A good site for a detector would be a hallway that runs between living spaces and bedrooms.

Because of the dead-air space that might be missed by turbulent hot air bouncing around above a fire, smoke detectors should be installed either on the ceiling at least four inches from the nearest wall, or high on a wall at least four, but no further than twelve, inches from the ceiling. Detectors should not be mounted near windows, exterior doors, or other places where drafts might direct the smoke away from the unit. Nor should they be placed in kitchens and garages, where cooking and gas

- 37. A smoke detector must always be placed
  - (A) outside at least one of the bedrooms on any level of the home.
  - (B) outside all bedrooms in a home.

fumes are likely to cause false alarms.

- (C) in all hallways of a home.
- (D) in kitchens where fires are most likely to start.



- 38. What is the main focus of this passage?
  - (A) how fire fighters carry out their responsibilities
  - (B) the proper installation of home smoke detectors
  - (C) the detection of dead-air space on walls and ceilings
  - (D) how smoke detectors prevent fires in homes
- 39. The passage implies that dead-air space is most likely to be found
  - (A) on a ceiling, between four and twelve inches from a wall.
  - (B) close to where a wall meets a ceiling.
  - (C) near an open window.
  - (D) in kitchens and garages.
- A smoke detector should NOT be installed near a window because
  - (A) outside fumes may trigger a false alarm.
  - (B) a draft may create dead-air space.
  - (C) a draft may pull smoke away from the detector.
  - (D) outside noises may muffle the sound of the detector.
- 41. Which organizational scheme does this list of instructions follow?
  - (A) hierarchical order
  - (B) comparison-contrast
  - (C) cause-and-effect
  - (D) chronological order by topic
- 42. The passage states that, compared with people who do not have smoke detectors, persons who live in homes with smoke detectors have a
  - (A) 50% better chance of surviving a fire.
  - (B) 50% better chance of preventing a fire.
  - (C) 75% better chance of detecting a hidden fire.
  - (D) 100% better chance of not being injured in a fire.

- 43. The passage indicates that one responsibility of a fire fighter is to
- (A) install smoke detectors in the homes of residents in the community.
- (B) check homes to see if smoke detectors have been properly installed.
- (C) develop fire safety programs for community leaders and school Teachers.
- (D) speak to school children about the importance of preventing fires.

#### **Question 44 to 47 Directions: Comprehension**

Charles Darwin was a biologist whose famous theory of evolution is important to philosophy for the effect it has had on ideas relating to the nature of men. After many years of careful study, Darwin attempted to show that higher species came into existence as a result of the gradual transformation of lower species, and that the process of transformation could be explained through the selective effect of the natural environment upon organisms. He concluded that the principles of natural selection and survival of the fittest govern all life. Darwin's explanation of these principles is that because of the food supply problem, the young of any species compete for survival. Those young that survive to produce the next generation tend to embody favourable natural changes that are passed on by heredity. His major work that contained these theories is *On the Origin of the Species*, written in 1859. Many religious opponents condemned this work.

- 44. According to the passage, how was Darwin's book, *On the Origin of the Species*, received?
  - (A) Scientists gave their immediate approval of Darwin's book.
  - (B) Religious opponents condemned Darwin's book.
  - (C) The world ignored Darwin's book.
  - (D) Darwin's book became an immediate bestseller.
- 45. Which of the following statements supports Darwin's belief about the origin of all species?
  - (A) Man is descended from monkeys.
  - (B) All life forms developed slowly over time from lower life forms.
  - (C) Natural forces do not affect life on Earth.
  - (D) All species were individually created.



| 46. According to the pass following? | age, Charles Darwin wa      | s which of the | Question 53 to 55 Directions: Find the erroneous construct in the sentence  |  |  |  |  |
|--------------------------------------|-----------------------------|----------------|---|--|--|--|--|
| (A) a priest                         | (B) a biologist             |                |   |  |  |  |  |
| (C) an animal trainer                | (D) a politician            |                | 53. Modern film techniques / are far superior / than that / employed in the past  |  |  |  |  |
|                                      |                             |                | $(A) \qquad \qquad (B) \qquad \qquad (C) \qquad \qquad (D)$   |  |  |  |  |
| -                                    | that the young of any sp    | •              | 54. I believe / that respect / is more preferable than / money.   |  |  |  |  |
|                                      | I those that survive are st | -              | $(A) \qquad \qquad (B) \qquad \qquad (C) \qquad \qquad (D)$   |  |  |  |  |
| ·                                    | g was called which of the   | e following?   | 55. I enjoyed / during my / stay in / Holland.  |  |  |  |  |
| (A) belief in creationism            | m                           |                | $(A) \qquad \qquad (B) \qquad \qquad (C) \qquad \qquad (D)$   |  |  |  |  |
| (B) the catastrophic the             | eory                        |                | Question 56 to 60 Directions: Fill in the blanks by choosing  |  |  |  |  |
| (C) theory of natural se             | election and survival of t  | he fittest     | appropriate word(s)   |  |  |  |  |
| (D) the study of anthro              |                             | onymous words  | <ul> <li>56. Deep ideological and internal power struggles the government.</li> <li>(A) similarities protracted (B) distortions accelerated</li> <li>(C) agreementsstymied (D) divisions paralyzed</li> </ul> |  |  |  |  |
| from the options.                    |                             |                | (C) agreementsstyllied (D) divisions paratyzed  |  |  |  |  |
| 48. GROVEL                           |                             |                | <ul><li>57. A glue produced by bees to their hives appears to contain antibiotic substances.</li><li>(A) collect (B) design (C) build (D) decorate</li></ul>  |  |  |  |  |
| (A) Decide (B) Vomi                  | it (C) Throw                | (D) Crawl      | <ul><li>58. Unlike his calmer, more easygoing colleagues, the senator was, ready to quarrel at the slightest provocation.</li><li>(A) Whimsical (B) irascible (C) gregarious (D) ineffectual</li></ul>        |  |  |  |  |
| (A) Lover (B) Inter                  | preter (C) Expert           | (D) Timid      | (A) winnistear (B) frascible (C) gregations (D) increctual  |  |  |  |  |
| 50. BANAL                            |                             |                | 59. Next day the newspaper was filled with thedetails of the murder.  |  |  |  |  |
| (A) Common (B)                       | Straight (C) Smooth         | (D) Slippery   | (A) macabre (B) condign (C) coherent (D) specious   |  |  |  |  |
| 51. CLANDESTINE                      |                             |                |   |  |  |  |  |
| (A) Public (B) Artis                 | tic (C) Secret              | (D) Violent    | 60. Jill was by her employees because she often them for not working hard enough.   |  |  |  |  |
| 52. SUBVERT                          |                             |                |   |  |  |  |  |
| (A) Overthrow (B)                    | Submit (C) Dictate          | (D) Decide     | (A) deified goaded (B) loathed berated (C) disregarded eulogized (D) cherished decided  |  |  |  |  |



### **QUANTITATIVE SKILL** PART-A (61 to 90)

(C) 1/15

62. A man spends 2/5 of his salary on house rent, 3/10 of his salary on food and 1/8 of his salary on conveyance. if he has Rs.1400 left with

(D) 1/45

61. Find the value of (1-(1/3))(1-(1/4))(1-(1/5))...(1-(1/100))

(B) 1/50

him, find his expenditure on food.

(A) 1/25

(A) 0.03

(B) 0.3

(C)3

(D) 0.003

| (A) 1000             | (B) 2400   | (C) 1500                                  | (D) 2000  | (A) 54152     | о (В                      | ) 390/013               | (C) 396                        | /019          | (D) 558092                           |
|----------------------|--|---|---|---------------|---------------------------|-------------------------|--------------------------------|---------------|--------------------------------------|
|                      |  |   | ango for every forty<br>ir bruised oranges are                    |               | numbers a<br>Jumbers.     | re in the ra            | tio of 15:11.                  | If their H.   | C.F. is 12, find                     |
|                      | bly unsalable and how many oranges   |   | alable oranges in the te?   | (A) 180,      | 132 (B)                   | 186, 165                | (C) 184                        | , 139         | (D) 133, 169                         |
| (A) 640              | (B) 1280   | (C) 480                                   | (D) 360   |               |                           |                         | s is 42 and th<br>tween the nu |               | t is 437, then find                  |
| 64. The ave          | erage age of a class   | of 39 students is 1                       | 5 years. If the age of  | (A) 4         | (E                        | B) 6                    | (C) 8                          |               | (D) 10                               |
| the teac             | her be included, the<br>e age of the teacher.  | n the average incr                        |   |               | is divided<br>12.Find the |                         |                                | t the sum     | of their reciprocals                 |
| (A) 20               | (B) 25   | (C) 35                                    | (D) 30  | (A) 25, 3:    | 5 (B) 30,                 | , 20 (C)                | 15, 35                         | (D) 20, 2     | 20                                   |
| the jour<br>with a u | ney from A to B at   | 84 km per hour an km per hour. Find       | 8 km. A train covers and returns back to A d the average speed of |               |                           |                         |                                |               | 40. If twice the s, what is Nikita's |
| (A) 67.2             | (B) 76.2   | (C) 66.1                                  | (D) 70  | (A) 21        | (B) 12                    | (C)                     | 15                             | (D) 20        |                                      |
| of 1200 p            | has a population of<br>her Year. Rampur ha<br>g at the rate of 800 j<br>n of the two village | s a population of a<br>per year. In how m |   | respe<br>Four | ectively.                 |                         | Siddhi and A                   |               |                                      |
| (A) 23               | (B) 13   | (C) 22                                    | (D) 12  | (A) 56        | (B)                       | 36                      | (C) 63                         | (D) 44        | 1                                    |
| 67. Two per          | ns and three pencils   | cost Rs 86. Four                          | Pens and a pencil cost  | 77. F         | ind the val               | ue of (2 <sup>1/4</sup> | $-1) (2^{3/4} + 2^{1/2} -$     | $+2^{1/4}+1)$ |                                      |
| Rs. 112              | . Find the cost of a   | pen.                                      | -   | (A) 1         | (B)                       | 2                       | (C) 0                          | (D) 1         | 2                                    |
| (A) Rs.20            | (B) Rs. 10   | (C) Rs.25                                 | (D) Rs. 15  | 78 If         | •                         | 2 and $x + 2$           | 2y≤3, What c                   | an be said    | about the value of                   |
| 68. What is t        | he square root of 0.   | 0009?                                     |   | (A) y = -     | 1 (B                      | ) y>-1                  | (C) y <-1                      | (D) <u>y</u>  | <i>i</i> = 1                         |

69. Nine persons went to a hotel for taking their meals 8 of them spent

spent by them?

(B) 117

(B) 91809

(B) 5967013

71. Which of the following numbers is divisible by 3?

70. Evaluate: (303 x 303 + 208 x 208)

(A) 118

(A) 180348

(A) 541326

Rs.12 each on their meals and the ninth spent Rs.8 more than the

average expenditure of all the nine. What was the total money

(C) 120

(C) 135073

(C) 5967019

(D) 107

(D) 43264

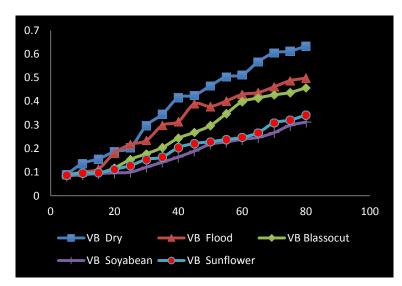
(D) 558692

| 79. | If the price of an item is decreased by 10% and then increased by 10%, the net effect on the price of the item is,  |   |   |                                    | 87.                                  | the total po   | pulation is 9975                     | 5 at the end of   | increased by 5% .If<br>the second year, then<br>uning of the first year? |
|-----|---|---|---|------------------------------------|--------------------------------------|----------------|--------------------------------------|-------------------|--|
|     | (A) Decrea  | ase of 99%<br>ase of 1%   | (B) No cha<br>(D) An inc  | ange<br>crease of 1%               |                                      | (A) 1000       | (B) 10000                            | (C) 8500          | (D) 9000   |
| 80. | B and B inv   | A, B and C enter into partnership. A invests 3 times as much as B and B invests two-third of what C invests. At the end of the year, the profit earned is Rs. 6600. What is the share of B? |   |                                    |                                      |                |                                      |                   | dentical looking<br>gets at least one                                    |
|     | (A) 2400  | (B) 6600  | (C) 1200  | (D) None of these                  |                                      | (A) 5040       | (B) 210                              | (C) 84            | (D) None of these  |
| 81. | On 8th No on 8th Dec  | , 2017?   | y falls. What day   | y of the week was it ay (D) Friday | 89.                                  | are of same    | e colour but of d                    | lifferent size .t | ighters. The dresses<br>he dress is kept in<br>Il the three will not     |
|     |   | •   | • , ,   | •                                  |                                      | (A) 2/3        | (B) 1/3                              | (C) 1/6           | (D) 1/9  |
| 82. | Viju joined   | him Rs.57, 000<br>divided between   | Rs. 95,000 in a business. After few months, Rs.57, 000. At the end of the year, the total ed between them in ratio 2:1. After how many pioin? |                                    |                                      |                |                                      |                   | omplete a call are 9, average time per call?                             |
|     |   |   |   |                                    |                                      | (A) 4 minu     | ites (B) 7 minu                      | ites (C) 1 mi     | nutes (D) 5 minutes  |
|     | (A) 2   | (B) 5   | (C) 4   | (D) 3                              |                                      |                |                                      |                   |  |
| 83  | green and t   | There are 20 balls which are red, blue or green. If 7 balls are green and the sum of red balls and green balls is less than 13, at most how many red balls are there?                       |   |                                    |                                      |                | QUANTITA                             | TIVE SKII         | LL   |
|     | (A) 4   | (B) 5   | (C) 6   | (D) 7                              |                                      |                | PART-B                               | (91 to 120)       |  |
| 84. | P, Q, R and S go for a picnic. When P stands on a weighing machine, Q also climbs on, and the weight shown was 132 kg. When Q stands, R also climbs on, and the machine shows 130 |   |   |                                    | 91.                                  | respectivel    |                                      | pes are opened    | nours and 46 hours<br>I simultaneously, bow                              |
|     | kg. Similarly the weight of R and S is found as 102 kg and that of Q and S is 116 kg. What is Q weight?   |   |   |                                    | (A) 20                               | (B) 25         | (C) 35                               | 5 (D) 30          |  |
|     | (A) 58kg  | (B) 78 kg   | (C) 67 kg   | (D) 44 Kg                          | 92.                                  |                | overs a distance<br>n km/hr of the c |                   | min 30 sec. What is  |
| 85. | difference of   | If the sales tax reduced from 3 1/2 % to 3 1/3%, then what difference does it make to a person who purchases an article with market price of Rs. 9000?                                      |   |                                    |                                      | (A) 20         | (B) 18 (C                            | C) 36 (D)         | 9  |
|     | (A) 42 (B) 28 (C) 15 (D) None   |   | 93.   |                                    | amounts to Rs. of ind the rate of in |                | years compounded<br>um.              |                   |  |
| 86. |   | Narendra's salary was decreased by 50% and subsequently increased by 50%. How much percent does he lose?  |   |                                    |                                      | (A) 8          | (B) 10                               | (C) 9             | (D) 7  |
|     | •   |   | 94.   | Simplify:                          | (log 75/16-2 lo                      | g 5/9+log 32/2 | 43)                                  |                   |  |
|     | (A) 20  | (B) 25  | (C) 35  | (D) 30                             |                                      |                |                                      |                   |  |

- 95. A and B are two stations 390 km apart. A train starts from A at 10 a.m. and travels towards B at 65 kmph. Another train starts from B at 11 a.m. and travels towards A at 35 kmph. At what time do they meet?
  - (A) 17/4
- (B) 4/17
- (C) 17
- (D) 390
- 96. A train 220 m long is running with a speed of 59 kmph.. In what will it pass a man who is running at 7 kmph in the direction opposite to that in which the train is going?
  - (A) 55/3
- (B) 12
- (C) 18
- (D) 66
- 97. If 20 men can build a wall 66 meters long in 6 days, what length of a similar can be built by 86 men in 8 days?
  - (A) 49m
- (B) 59m
- (C) 61m
- (D) 70m
- 98. Baban takes 8 hours to do a job. Mahendra takes 10 hours to do the same Job. How long should it take both Baban and Mahendra, working together but independently, to do the same job?
  - (A) 40/11
- (B) 40/9
- (C) 9/40
- (D) 9
- 99. A man buys Rs. 25 shares in company which pays 9 % dividend. The money invested is such that it gives 10 % on investment. At what price did he buy the shares?
  - (A) 22.5
- (B) 28
- (C) 30
- (D) 25
- 100. In how many ways can a cricket eleven be chosen out of a batch of 15 players?
  - (A) 1000
- (B) 1665
- (C) 225
- (D) 1365
- 101. If the height of a pole is 2meters and the length of its shadow is 2 meters, find the angle of elevation of the sun.
  - (A) 30
- (B) 90
- (C) 180
- (D) 60
- The average length of three tapes is 6800 feet. None of the 102. tapes is less than 6400 feet. What is the greatest possible length of one of the other tapes?
  - (A) 6400
- (B) 6800
- (C) 7600
- (D) 6700
- 103. The average salary of 3 workers is 95 Rs. per week. If one earns Rs.115 and second earns Rs.65 how much is the salary of the 3rd worker.
  - (A) 105
- (B) 120
- (C) 180
- (D) 75

- 104. A man owns 2/3 of the market research beauro business and sells 3/4 of his shares for Rs. 75000. What is the value of **Business?** 
  - (A) 55/3
- (B) 150000
- (C) 180000
- (D) 160000
- 105. If the digits of my present age are reversed then I get the age of my son. If one year ago my age was twice as that of my son. Find my present age.
  - (A) 63
- (B)73
- (C) 37
- (D) 36
- Solve:  $x + y = x^2 y^2 = 23$  find y 106.
  - (A) 11
- (B) 12
- (C) 24
- (D) 36
- 107. Find the area of a right-angled triangle whose base is 12 cm and hypotenuse is 13cm.
  - (A) 25
- (B) 30
- (C) 5
- (D) 15
- 108. A clock is set right at 6 a.m. The clock loses 16 minutes in 24 hours. What will be the true time when the clock indicates 10 p.m. on 4th day?
  - (A) 11
- (B) 8
- (C) 10
- (D)9

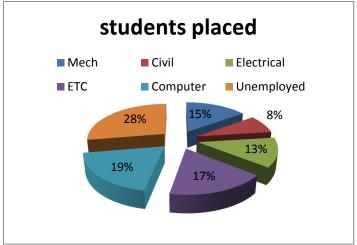
Question 109 to 112 is based on the Following figure. It represents tool wear (VB) at different cutting speed (rpm)



- 109. Which oil shows lowest tool wear?
  - (A) Dry
- (B) Coconut (C) Blassocut (D) Soyabean

- 110. Which oil shows lowest tool wear?
  - (A) Sunflower (B) Coconut (C) Blassocut (D) Soyabean
- 111. Conclusion based on the graph
  - (A) Tool wear is higher for dry condition.
  - (B) Tool wear increases as speed increases.
  - (C) Soyabean oil has lowest tool wear.
  - (D) All the above
- 112. The perimeters of two squares are 40 cm and 32 cm. Find the perimeter of a third square whose area is equal to the difference of the areas of the two squares.?
  - (A) 24
- (B) 48
- (C) 40
- (D) 32
- 113. What is approximate difference between minimum and maximum tool wear at 80 rpm.
  - (A) 0.1
- (B) 0.2
- (C) 0.3
- (D) 0.4
- If all the 6 are replaced by 9, then the algebraic sum of all the 114. numbers from 1 to 100 (both inclusive) varies by
  - (A) 330
- (B) 350
- (C) 300
- (D) 100

Question 115 to 118. The pie-chart provided below gives the distribution of placement record of 300 students in an Engineering College. Study the pie-chart carefully and answer the questions that follow.



- 115. What is the difference between the numbers of placed students from mechanical and civil students?
  - (A) 21
- (B) 16
- (C) 24
- (D) 32

- 116. How many students of college placed in different branches?
  - (A) 217
- (B) 300
- (C) 271
- (D) 100
- 117. How many students from computer and Electrical are placed?
  - (A)78
- (B) 96
- (C) 32
- (D) 74
- 118. How many students of college are not placed?
  - (A) 78
- (B) 83
- (C) 28
- (D) 74
- 119. A motor boat covers a certain distance downstream in 30 minutes, while it comes back in 45 minutes. If the speed of the stream is 5 kmph what is the speed of the boat in still water?
- (A) 10 kmph (B) 15 kmph (C) 20 kmph
- (D) 25kmph
- 120 Find the missing numbers in the series: 0, 2, 5, ?, 17, 28, ?
  - (A) 11, 31
- (B) 31, 51
- (C) 10, 41
- (D) 21, 40

### ANLYTICAL SKILL **PART-A (121 to 150)**

121. Find the number of triangles in the given figure.



- (A) 18
- B) 20
- C) 24
- D) 27
- Look at this series: 58, 52, 46, 40, 34 . . . What number should 122. come next?
  - (A) 26
- (B) 28
- (C) 30
- (D) 32

| 123-126 | Read the given information carefully and then answer the |  |
|---------|--|--|
|         | questions based on them:                                 |  |

Six members of a family A, B, C, D, E and F are Psychologist, Manager, Advocate, Jeweller, Doctor and Engineer but not in the same order.

- i. Doctor is the grandfather of F and he is a psychologist
- ii. Manager D is married to A
- iii. C, who is a Jeweller, is married to Advocate
- iv. B is the mother of F and E
- v. There are two married couples in the family
- 123. How many male members are there in the family?
  - (A) Four (B) Six (C) Cannot be determined (D) None of these
- 124. What is the profession of A?
  - (A) Manager
- (B) Engineer
- (C)Advocate
- (D) None of these
- 125. Who are the two couples in the family?
  - (A) AD and CB
- (B) AE and DE
- (C) AB and CD
- (D) AC and BD
- 126. How is A related to E?
  - (A) Father (B) Grandfather (C) Grandmother (D) Wife
- 127. The value of a machine depreciates at the rate of 10% every year. It was purchased 3 years ago. If its present value is Rs. 8748, its purchase price was
  - (A) 16000

(B) 12000

(C) 10000

- (D) 8000
- 128. Insert the missing number.7, 26, 63, 124, 215, 342 ,(....)
  - (A) 391
- (B) 421
- (C) 511
- (D) 451

- 129. What is the number of triangles that can be formed whose vertices are the vertices of an octagon but have only one side common with that of octagon?
  - (A) 16
- B) 3
- C) 48
- D) 64
- 130. A bag contains 50 P, 25 P and 10 P coins in the ratio 5: 9: 4, amounting to Rs. 206. Find the number of coins of each type respectively.
  - (A) 360, 160, 200
- B) 160, 360, 200
- C) 200, 360,160
- D) 200,160,300
- 131. A clock is set right at 8 a.m. The clock gains 10 minutes in 24 hours will be the true time when the clock indicates 1 p.m. on the following day?
  - (A) 48 min. past 12
- (B) 46 min. past 12
- (C) 45 min. past 12
- (D) 47 min. past 12
- 132. 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?

(A) Mother

- (B) Granddaughter
- (C) Grandmother
- (D) Grandfather
- 133. What was the day of the week on, 16th July, 1776?
  - (A) Saturday

(B) Tuesday

(C) Sunday

- (D) Saturday
- 134. In a park, nine friends are sitting in a row facing north. M is at the extreme right.
  - Q is left to R but Right to P.
  - O is standing right to N and left to P.
  - Similarly, S is right to R and left to T.
  - A is at the extreme left.
  - Who is sitting in between P and M, if O is not there?
  - (A) P
- (B) N
- (C) S
- (D) Q



- 135. Re-entry occurs when a person leaves his or her social system for a period of time and then returns. Which situation below best describes Re-entry?
- (A) When he is offered a better paying position, Arvind leaves the restaurant. He manages to manage a new restaurant on the other side of town.
- (B) Datta is spending his junior year of college studying abroad in Australia.
- (C) Neeta is readjusting to civilian life after two years of overseas service.
- (D) After several miserable months, Ravi decides that she can no longer share an apartment with his roommate Ajinkya.

### Read the given information carefully and then answer the questions based on them: (136 to 139)

"Mirchi", a specialty restaurant, is open for business every Monday through Saturday but is closed Sundays. Lunch is the only meal served on Mondays, Tuesdays and Thursdays. Dinner is the only meal served on Wednesdays, Fridays and Saturdays. The restaurant's floors are polished and its plants are watered only on days that "Mirchi", is open for business, according the following schedule:

Plants are watered two days each week, but never on consecutive days and never on the same day are that floors polished.

Floors are polished on Monday and two other days each week, but never on consecutive days and never on the same day that plants are watered.

- 136. According to the schedule, which of the following could be true?
  - (A) Floors are polished on Tuesday
  - (B) Plants are watered on Wednesday
  - (C) Lunch is served on Friday
  - (D) Dinner is served on Thursday
- **137.** According to the schedule, the restaurant's floors are polished on either
- (A) Tuesday or Wednesday
- B) Tuesday or Thursday
- (C) Wednesday or Thursday
- D) Thursday or Saturday

138. Assume that floors are polished on consecutive instead of nonconsecutive days but that all other scheduling policies are unchanged.

For how many of the six days can it be determined both whether plants are watered and whether floors are polished?

- (A) Two
- (B) Three
- (C) Five
- (D) Six
- **139.** If dinner is served on a day that plants are watered, which of the following must be true?
  - (A) Plants are watered on Tuesday
  - (B) Plants are watered on Saturday
  - (C) Floors are polished on Thursday
  - (D) Floors are polished on Wednesday

#### **Directions for Questions 140-143:**

Find the odd one out.

- 140. 396, 462, 572, 427, 671, 264
- (A) 396
- (B) 671
- (C) 427
- (D)264
- 141. 1, 4, 9, 16, 23, 25, 36
- (A) 1
- (B) 16
- (C) 23
- (D) 25
- 142. 2, 5, 10, 17, 26, 37, 50, 64
- (A) 5
- (B) 17
- (C) 50
- (D) 64
- 143. 41, 43, 47, 53, 61, 71, 73, 81
- (A) 41
- (B) 53
- (C) 71
- (D) 81

#### **Directions for Questions 144-148:**

Choose the conclusion that can be drawn from the given statements.

- 144. All tubes are handles. All balls are handles.
  - I.All cups are tubes.
  - II. Some handles are not balls.
    - (A) Only conclusion I follows
    - (B) Only conclusion II follows
    - (C) Either I or II follows
    - (D)Neither I nor II follows
- 145. All Oranges are golden in color. No golden-coloured things are cheap.
  - I. All oranges are cheap.
  - II. Golden-colored oranges are not cheap.
    - (A) Only conclusion I follows
    - (B) Only conclusion II follows
    - (C) Either I or II follows
    - (D)Both I or II follow
- 146. Jayant is always successful. No fool is always successful.
  - I. Jayant is a fool.
  - II. Jayant is not a fool.
    - (A) Only conclusion I follows
    - (B) Only conclusion II follows
    - (C) Either I or II follows
    - (D) Neither I nor II follows
- 147. All terrorists are culpable. All terrorists are criminals.
  - Either all criminals are culpable or all culpable are criminals.
  - II. Some culpable persons are criminals.
  - III. Generally criminals are culpable.
  - IV. Crime and culpability go together.

- (A) Only I follows
- (B) Only I and III follow
- (C) Only II follows
- (D) Only II and IV follow
- 148. All film stars are playback singers. All film directors are film stars.
  - I. All film directors are playback singers
  - II. Some film stars are film directors.
    - (A) Only conclusion I follows
    - (B) Only conclusion II follows
    - (C) Either I or II follows
    - (D) Both I and II follow

#### **Directions for Questions 149-153:**

In each question below is given a statement followed by two assumptions numbered I and II. Decide which of the assumptions is implicit in the statement.

- "You are hereby appointed as a Trainee Engineer with a probation period of six month and your performance will be reviewed at the end of the period for confirmation." - A line in an appointment letter.
  - I. The performance of an individual generally is not known at the time of appointment offer.
- Generally an individual tries to prove his worth in the probation period.
  - (A) Only assumption I is implicit
  - (B) Only assumption II is implicit
  - (C) Either I or II is implicit
  - (D) Both I and II are implicit

- 150. "If you trouble me, I will slap you." A teacher warns her students
  - I. With the warning, the students may stop troubling her.
- II. All students are basically disobedient.
  - (A) Only assumption I is implicit
  - (B) Only assumption II is implicit
  - (C) Either I or II is implicit
  - (D) Both I and II are implicit

# ANLYTICAL SKILL PART-B (151 to 180)

- 151. Apart from the Communication value of mobiles, its education value cannot be ignored.
  - I. People buy mobile for communication only.
  - II. The educational value of mobile is not appreciated correctly.
    - (A) Only assumption I is implicit
    - (B) Only assumption II is implicit
    - (C) Either I or II is implicit
    - (D) Both I and II are implicit
  - 152. Sangita decided to get the railway reservation in October, for the journey she wants to make in December, to Mumbai.
    - The railways issues reservations two months in advance.
    - II. There are more than one train to Mumbai.
    - III. There will be vacancy in the desired class.
      - (A) Only assumption I is implicit
      - (B) Only assumption II is implicit
      - (C) Only assumption I and II are implicit
      - (D) Only assumption II and III are implicit

- 153. The campaign of "Green City, Clean City" started by the Municipal Council did not have any response from the people.
  - I. People do not desire to keep their city clean and green
  - II. The Municipal Council has failed in its campaign.
    - (A) Only assumption I is implicit
    - (B) Only assumption II is implicit
    - (C) Either I or II is implicit
    - (D) Both I and II are implicit

#### **Directions for Questions 154-158:**

Given below is a set of statements. Examine the statements and state the nature of relationship between them:

#### 154. Statements:

- All the schools in the area had to be kept closed for most part of the week.
- II. Many parents have withdrawn their children from the local schools.
- (A) Statement I is the cause and statement II is its effect
- (B) Statement II is the cause and statement I is its effect
- (C) Both the statements I and II are independent causes
- (D) Both the statements I and II are effects of independent causes

#### 155. Statements:

- I. There has been a high increase in the incidents of atrocities against women in the city during the past few months.
- II. The police authority has been unable to nab the culprits who are committing crime against women.
- (A) Statement I is the cause and statement II is its effect
- (B) Statement II is the cause and statement I is its effect
- (C) Both the statements I and II are independent causes
- (D) Both the statements I and II are effects of independent causes



#### 156. Statements:

- I. It is the aim of the municipal council authority to get the air pollution reduced by 20% in the next two months.
- The number of respiratory diseases cases in the city are constantly increasing.
- (A) Statement I is the cause and statement II is its effect
- (B) Statement II is the cause and statement I is its effect
- (C) Both the statements I and II are independent causes
- (D) Both the statements I and II are effects of some common cause

#### 157. Statements:

- There is considerable reduction in the number of people affected by water-borne diseases in rural areas during this rainy season.
- II. The government has opened numbers of new civil hospitals in rural areas in the beginning of the year.
- (A) Statement I is the cause and statement II is its effect
- (B) Statement II is the cause and statement I is its effect
- (C) Both the statements I and II are independent causes
- (D) Both the statements I and II are effects of independent causes

#### 158. Statements:

- The police authority has recently caught a group of house breakers.
- II. The citizens group in the locality has started night vigil in the area.
- (A) Statement I is the cause and statement II is its effect
- (B) Statement II is the cause and statement I is its effect
- (C) Both the statements I and II are independent causes
- (D) Both the statements I and II are effects of some common cause

#### **Directions for Questions 159-160:**

Find the missing term:

- 159. QAR, RAS, SAT, TAU, \_\_\_\_\_
  - (A) TAS
  - (B) UAT
  - (C) UAV
  - (D) VAU
- 160. B2CD, \_\_\_\_\_, BCD4, B5CD, BC6D
  - (A) B2C2D
  - (B) BC3D
  - (C) B2C3D
  - (D) BC4D
- 161. If South-East becomes North, North-East becomes West and so on. What will West become?
  - (A) North-West
  - (B) South-West
  - (C) North-East
  - (D) South-East
- 162. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is:
  - (A) 2/91
  - (B) 3/22
  - (C) 5/71
  - (D) 7/51
- 163. Village Q is to the North of the village P. The village R is in the East of Village Q. The village S is to the left of the village P. In which direction is the village S with respect to village R?
  - (A) West
  - (B) South
  - (C) South-West
  - (D) North-West



#### **Directions for Questions 164-165:**

Find the missing term:

164. 8 : 28 :: 27 : **?** 

- A) 65
- B) 50
- C) 64
- D) 74

165. BEGK: ADFJ:: PSVY: ?

- A) OQT
- B) ROUY
- C) ORUX
- D) LSUF
- 166. A, B, C, D and E play a game of cards. A says to B, "If you give me three cards, you will have as many as E has and if I give you three cards, you will have as many as D has." A and B together have 10 cards more than what D and E together have. If B has two cards more than what C has and the total number of cards be 133, how many cards does B have?
  - (A) 35
- (B) 26
- (C) 33
- (D) 25
- 167. A certain number of horses and an equal number of men are going somewhere. Half of the owners are on their horses' back while the remaining ones are walking along leading their horses. If the number of legs walking on the ground is 70, how many horses are there?
  - (A) 14
  - (B) 16
  - (C) 18
  - (D) 20

### Question 168-172 are based on the criteria for selecting team leader for the V-Sphere Software Company.

The candidate should

- (i) Have a Minimum four years of experience
- (ii) Should have good communication skills..
- (iii) Have scored at least 90% in the interview.
- (iv) Know either Telugu or Hindi.
- (v) be at least 30 years and not more than 40 years as on 01-12-2016

If the candidate satisfies all the above criteria, the candidate may be selected. If the candidate fulfills all the criteria except,

- ((A) criterion (i), but has a work experience of at least five years as a Testing Engineer, then he/she is referred to Senior Software Engineer.
- (b) criterion (v), but has a work experience of at least nine years as a Software Engineer then he/she is referred to Manager.

Based on the above information and data given in each question, you have to decide the course of action. You are not to assume anything. The following information is provided as on 01-12-2016.

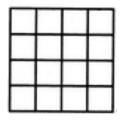
If you are not able to decide the course of action because of insufficient data, your answer is 'data is inadequate'. Mark your answer as,

#### Questions:-

- 168. Ram has scored 92% in the interview and he is fluent in English. He has six years of work experience as an Associate Engineer and knows Hindi. He was born in 30th March 1984.
  - (A) if the candidate is to be rejected.
  - (B) if the candidate may be selected.
  - (C) if data is inadequate to take any decision.
  - (D) if the candidate is to be referred to the Manager.

- 169. Ashalata was born in 1983 and she knows both Telugu and Hindi. She has three years of work experience as an Associate Engineer. She scored 90% in the interview and speaks English fluently. She also has six years of work experience as a Testing Engineer.
  - (A) if the candidate is to be rejected.
  - (B) if the candidate may be selected.
  - (C) if data is inadequate to take any decision.
  - (D) if the candidate is to be referred to the Manager.
- 170. Yogini scored 90% in the interview and is fluent in English. She knows Telugu and is 34 years old. She has ten years of work experience as a Software Engineer and has six years of work experience as a Testing engineer.
  - (A) if the candidate is to be rejected.
  - (B) if the candidate may be selected.
  - (C) if data is inadequate to take any decision.
  - (D) if the candidate is to be referred to the Manager.
- 171. Pramod was born on 10th September 1988. He has six years of work experience as an Associate Engineer, and is fluent in English. He knows both Hindi and English and scored 85% in the interview. He has nine years work experience as a Software Engineer.
  - (A) if the candidate is to be rejected.
  - (B) if the candidate may be selected.
  - (C) if data is inadequate to take any decision.
  - (D) if the candidate is to be referred to the Manager.
- 172. Varsha has nine years of work experience as a Software Engineer and knows Telugu. She is fluent in English and has five years of work experience as an Associate Engineer and scored 97% in the interview. Her age is 41 years.

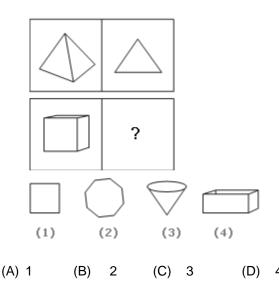
- (A) if the candidate is to be rejected.
- (B) if the candidate may be selected.
- (C) if data is inadequate to take any decision.
- (D) if the candidate is to be referred to the Manager.
- 173. Count the number of squares in the given figure.



- (A) 32
- (B) 30
- (C) 29
- (D) 28
- 174. Here are some words translated from an artificial language.

gorblflur means fan belt, pixngorbl means ceiling fan arthtusl means tile roof, Which word could mean "ceiling tile"?

- (A) gorbltusl
- (B) flurgorbl
- (C) arthflur
- (D) pixnarth
- 175. Choose the picture that would go in the empty box so that the two bottom pictures are related in the same way as the top two are related.



- 176. Violating an Apartment Lease occurs when a tenant does something banned by the legally binding document that he or she has signed with a landlord. Which situation below is the best example of Violating an Apartment Lease?
  - (A) Priyanka has decided to move to another city, so he calls his landlord to tell him that he is not interested in renewing his lease when it expires next month.
  - (B) Sharad recently lost her job and, for the last three months, has neglected to pay his landlord the monthly rent they agreed upon in writing when he moved into her apartment eight months ago.
  - (C) Uday writes a letter to his landlord that lists numerous complaints about the apartment he has agreed to rent for two years.
  - (D) Anna thinks that her landlord is neglecting the building in which she rents an apartment. He calls her attorney to ask for advice.
- 177. From a group of 7 men and 6 women, five persons are to be selected to form a committee so that at least 3 men are there on the committee. In how many ways can it be done?
  - (A) 564
- (B) 546
- (C) 746
- (D) 756
- 178. The difference between a two-digit number and the number obtained by interchanging the digits is 36. What is the difference between the sum and the difference of the digits of the number if the ratio between the digits of the number is 1:2?
  - (A) 4
  - (B) 6
  - (C) 8
  - (D) 10

- 179. Which one of the following is always associated with 'tree'?
  - (A) Roots
  - (B) Fruits
  - (C) Leaves
  - (D) Flowers
- 180. The largest 4 digit number exactly divisible by 88 is:
  - (A) 8888
  - (B) 9944
  - (C) 9964
  - (D) 9988