Question Booklet Series:	FOR ADMISSION THROUGH AIMS TEST FOR MANAGEMENT ADMISSIONS (ATMA)	Question Booklet Number:
В	INSTRUCTIONS	
Roll Number:		Exam Date:- 12/02/2017 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 : F	Furniture : : Sculpto	or : ?	
(A)	Scooter	(B) Pot	(C) Building	(D) Statue
2.	Monkey: Ch	natter :: Elephant :	?	
(A)	Neigh	(B) Squeak	(C) Roar	(D) Trumpet
3.	Ornithology	: Birds : : Entomol	logy:?	
(A)	Insects	(B) Worms	(C) Mammals	(D) Reptiles
4.	Patricide : Fa	nther::Sororicide	: ?	
(A)	Mother	(B) Human	(C) Brother	(D) Sister
5.	Shooting : B	ullet::Archery:	?	

Question 6 to 10 Directions: Fill in the blank with most appropriate word

means the ridiculous and miserable failure.

(C) Arrow

(D) Rocket

(B) Spear

(A) Bow

6.

(A) Chimera	(B) Anomal	ly (C) Blund	er (D) Fiasco
7. Sharpness a	nd bitterness o	of the speech or t	emper is known as
·			
(A) Apathy	(B) Alacrity	(C) Assiduity	(D) Acrimony

- 8. He looks at everything from a personal point of view
- (A) Egoist (B) Egotist (C) Egomaniac (D) Egocentric

- 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.

11.	Marie by leaving Poland and travelling to France to enter the Sorbonne.	"It is not very cold. I don't think we need these woollen sweaters."
		"I don't think so,"
(A)	Challenged authority (B) Showed intelligence	
(C)	Behaved (D) Was distressed	(A) Anyway (B) neither (C) either (D) too
12.	Even though she became fatally ill from working with radium, Marie Curie was never	20. If you don't understand the text, don't hesitate
		(A) ask a question (B) asking a question
(A)	Troubled (B) Worried (C) Disappointed (D) Sorrowful	(C) to ask a question (D) to asking a question
13.	Marie had a bright mind and a personality.	21. "Excuse me. Do you know where the railway station is?"
(A)	Strong (B) lighthearted (C) Humorous (D) Strange	"It is the bus terminal."
14.	Her began to fade when she returned to the Sorbonne to succeed her husband.	(A) opposite of (B) opposed to (C) opposite with (D) opposite
		Question 22 to 26 Directions: Pick up the most appropriate
(A)	Misfortune (B) Anger (C) Wretchedness (D) Disappointment	Antonym for the given word
15.	When she learned that she could not attend the university in	
	Warsaw, she felt	22. Enormous
(A)	Hopeless (B) Annoyed (C) Depressed (D) Worried	(A) tiny (B) soft (C) average (D) weak
16.	she remembered their joy together.	23. Exodus
(A)	Dejectedly (B) Worried (C) Tearfully (D) Happily	(A) Influx (B) return (C) arrival (D) restoration
Quest	tion 17 to 21 Directions: Fill in the blanks by choosing most	
ppro	opriate option	24. Quiescent
17.	The social worker the two old sisters who were ill.	(A) active (B) dormant (C) weak (D) unconcerned
	called to the house of (B) called on the house of called to (D) called on	25. Commissioned
18.	Abhishek was thrilled to be such a beautiful and	(A) started (B) revoked (C) finished (D) terminated
	interesting lady.	(1) stated (b) revoked (c) timisted (b) terminated
		26. Relinquish
(A)	introduced (B) introduced at	•
(C)	introduced with (D) introduced to	(A) Possess (B) abdicate (C) renounce (D) deny

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 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 morr	ning.
(A)	on	(B) at	(C) by	(D) in
33.	The colleg	ge library is ope	n nine ur	ntil four.
(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 him because he never						
	grandiose pr	omises he had r	nade.				
(A)	Succeeded t	to	(B) tired of				
(C)	delivered o	n	(D) accomplished for				
35. The reasoning the newspaper article is so that we cannot see how anyone can be deceived by it.							
36.	Since Radl	ha believed Kris	(C) cogent shna to be both car consider the poss	ndid and			
	statement i	s					
(A)	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 passage, Charles Darwin was which of the following?	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
	$(A) \qquad \qquad (B) \qquad \qquad (C) \qquad \qquad (D)$
47. Darwin's explanation that the young of any species compete for	54. I believe / that respect / is more preferable than / money.
food and survival, and those that survive are strong and pass their	(A) (B) (C) (D)
traits on to their young was called which of the following?	55. I enjoyed / during my / stay in / Holland.
(A) belief in creationism	(A) (B) (C) (D)
(B) the catastrophic theory	
•	Question 56 to 60 Directions: Fill in the blanks by choosing
(C) theory of natural selection and survival of the fittest	appropriate word(s)
(D) the study of anthropology	56. Deep ideological and internal power struggles the government.
Question 48 to 52 Directions: Find the most synonymous words from the options.	(A) similarities protracted (B) distortionsaccelerated (C) agreementsstymied (D) divisions paralyzed
	57. A glue produced by bees to their hives appears to contain antibiotic substances.
48. GROVEL	(A) collect (B) design (C) build (D) decorate
(A) Decide (B) Vomit (C) Throw (D) Crawl	58. Unlike his calmer, more easygoing colleagues, the senator
49. CONNOISSEUR	was, ready to quarrel at the slightest provocation.
(A) Lover (B) Interpreter (C) Expert (D) Timid	(A) Whimsical (B) irascible (C) gregarious (D) ineffectual
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) Artistic (C) Secret (D) Violent	60. Jill was by her employees because she often them for n 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

(D) 1/45

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

(B) 1/50

(A) 1/25

62. A man spe	62. A man spends 2/5 of his salary on house rent, 3/10 of his salary on			(A) 18	80348	(B) 91809	(C) 1	135073	(D) 43264
food and 1/		conveyance. if he	has Rs.1400 left with	71. W	Vhich o	f the following	numbers is o	livisible by	3?
(A) 1000	(B) 2400	(C) 1500	(D) 2000	(A) 54	41326	(B) 59670	13 (C) :	5967019	(D) 558692
63. A crate of oranges contains one bruised mango for every forty oranges in the crate. If three out of every four bruised oranges are				Two nur the Nur		e ratio of 15:	11. If their	H.C.F. is 12, find	
		there are 12 unsais is there in the cra	alable oranges in the te?	(A) 18	30 , 132	(B) 186,	165 (C)	184, 139	(D) 133, 169
(A) 640	(B) 1280	(C) 480	(D) 360			nm of two numb plute difference			luct is 437, then find
64. The avera	age age of a class	of 39 students is 1:	5 years. If the age of	(A) 4		(B) 6	(C)	8	(D) 10
the teacher be included, then the average increases by 3 months. Find the age of the teacher.				divided into tw Find the two p		that the sur	m of their reciprocals		
(A) 20	(B) 25	(C) 35	(D) 30	(A) 25	5, 35	(B) 30, 20 (C) 15, 35	(D) 20	, 20
the journe with a uni	ey from A to B at	84 km per hour an km per hour. Find	8 km. A train covers d returns back to A the average speed of	8					s 240. If twice the ears, what is Nikita's
(A) 67.2	(B) 76.2	(C) 66.1	(D) 70	(A) 2	1	(B) 12 (C) 15	(D) 20)
of 1200 per increasing a	Year. Rampur ha	as a population of 4 per year. In how m		r I	especti	vely. ars hence, this			s's age was 6: 7 How old is
(A) 23	(B) 13	(C) 22	(D) 12	(A) 5	6	(B) 36	(C) 63	(D)	44
			Pens and a pencil cost	77.	Fino	the value of (2	$2^{1/4}$ -1) $(2^{3/4}+2)$	$2^{1/2} + 2^{1/4} + 1$	
Rs. 112. I	Find the cost of a	pen.		(A) 1		(B) 2	(C) 0	(D)	12
(A) Rs.20	(B) Rs. 10	(C) Rs.25	(D) Rs. 15	78	If 3y y?	y + x > 2 and x	+ 2y≤3, Wha	at can be sa	id about the value of
68. What is the	e square root of 0.0	0009?		(A) y	y = -1	(B) y>-1	(C) y <	:-1 (D) y = 1
(A) 0.03	(B) 0.3	(C) 3	(D) 0.003						

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

spent by them?

(B) 117

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

(A) 118

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

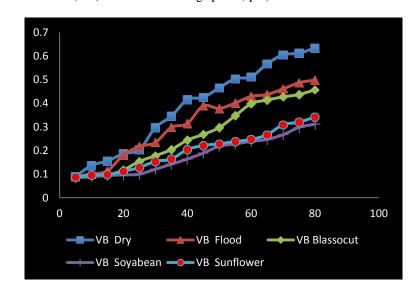
(D) 107

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,					pulation is 9975	5 at the end of th	creased by 5%. If se second year, the ing of the first year	
	(A) Decrea	ase of 99% se of 1%	(B) No cha (D) An inc	ange rease of 1%		(A) 1000	(B) 10000	(C) 8500	(D) 9000	
80.	B and B inv	vests two-third		s 3 times as much as s. At the end of the the share of B?	88.		-	distribute 10 ide at each student ge	_	
	(A) 2400	(B) 6600	(C) 1200	(D) None of these		(A) 5040	(B) 210	(C) 84 (I	D) None of these	
81.	On 8th Nov, 2016 Tuesday falls. What day of the week was it on 8th Dec, 2017? (A) Sunday (B) Thursday (C) Tuesday (D) Friday				89.	A father purchases dress for his three daughters. The dresses are of same colour but of different size .the dress is kept in dark room .What is the probability that all the three will not choose their own dress.				
02	G 1: :	1.05.00	0. 1	6 6 4		(A) 2/3	(B) 1/3	(C) 1/6 ((D) 1/9	
82.	2. Sachin invested Rs. 95,000 in a business. After few months, Viju joined him Rs.57, 000. At the end of the year, the total profit was divided between them in ratio 2:1. After how many months did Viju join?			90.				mplete a call are 9, verage time per cal		
	monus ara	viju joiii:				(A) 4 minu	tes (B) 7 minu	utes (C) 1 minu	utes (D) 5 minutes	
	(A) 2	(B) 5	(C) 4	(D) 3						
83	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 SKILI	L	
	(A) 4	(B) 5	(C) 6	(D) 7			PART-B	(91 to 120)		
84.	4. 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.	respectively		pes are opened s	urs and 46 hours imultaneously, boy		
	•	ly the weight o is 116 kg. Wha		d as 102 kg and that		(A) 20	(B) 25	(C) 35	(D) 30	
	(A) 58kg	(B) 78 kg	(C) 67 kg	(D) 44 Kg	92.		overs a distance h km/hr of the c		nin 30 sec. What is	
85.	difference of			/3%, then what rchases an article		(A) 20	(B) 18 (C	C) 36 (D) 9		
	(A) 42	(B) 28	(C) 15	(D) None	93.			683.20 in two ye nterest per annur	ears compounded m.	
86.			reased by 50% ar			(A) 8	(B) 10	(C) 9	(D) 7	
00.	increased by 50%. How much percent does he lose?		94.	Simplify:	(log 75/16-2 lo	g 5/9+log 32/243	3)			
00.	(A) 20	(B) 25	(C) 35	(D) 30	<i>,</i>	1 2	` _	8	- /	

- 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
- 102. The average length of three tapes is 6800 feet. None of the 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
- (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

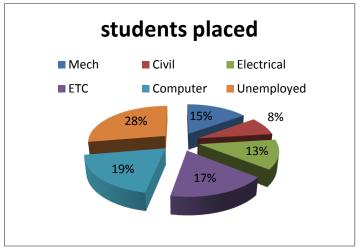
Question 109 to 112 is based on the Following figure. It represents tool wear (VB) at different cutting speed (rpm)



- 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
- 114. If all the 6 are replaced by 9, then the algebraic sum of all the 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
- 122. Look at this series: 58, 52, 46, 40, 34 . . . What number should come next?
 - (A) 26
- (B) 28
- (C) 30
- (D) 32

123-126	6 Read the given infor questions based on t	i e 129	are the vert	e number of triangles that can be formed whose vertice tices of an octagon but have only one side common w				
	ger, Advocate, Jeweller	, B, C, D, E and F are Psychologis , Doctor and Engineer but not in th		that of octa (A) 16	B) 3	C) 48	D) 64	
123.	ii. Manager D isiii. C, who is a Jeiv. B is the motherv. There are two	weller, is married to Advocate	130	•	to Rs. 206. I y. 50, 200	Find the num B) 16	coins in the ratio 5: ber of coins of each 0, 360, 200 0,160,300	
125.	now many mare meme	ers are there in the family:	121	A aloak is	eat right at Q	a m. Tha alo	ak gains 10 minutas	in 24
(A) Four (B) Six (C) Ca	annot be determined (D) None of thes		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?				
24.	What is the profession	of A?		(A) 48 min	. past 12	(B)	46 min. past 12	
	(A) Manager(C)Advocate	(B) Engineer(D) None of these		(C) 45 min	. past 12	(D) 47 min. past 12	
			132	. A is B's si	ster. C is B's	mother. D is	C's father. E is D's	mother.
25.	Who are the two couple	es in the family?			is A related			
	(A) AD and CB	(B) AE and DE		(A) Mother) Granddaughter	
	(C) AB and CD	(D) AC and BD		(C) Grandr	nother) Grandfather	
26.	How is A related to E?	,	133	. What was t	the day of th	e week on, 10	6th July, 1776?	
				(A) Saturda	ay	(B) Tuesday	
(A) Father (B) Grandfath	er (C) Grandmother (D) Wife		(C) Sunday	/	(D) Saturday	
It v		preciates at the rate of 10% every year. go. If its present value is Rs. 8748, its	134	extreme rig		_	a row facing north.	M is at tl
				O is standing right to N and left to P.				
(A) 16000	(B) 12000		Similarly, S	S is right to l	R and left to	Γ.	
(C)) 10000	00 (D) 8000		A is at the	extreme left.			
				Who is sitt	ing in betwe	en P and M,	f O is not there?	
128. lı	nsert the missing num	ber.7, 26, 63, 124, 215, 342 ,()		(A) P	(B) N	(C) S	(D) Q	

(A) 391

(C) 511

(D) 451

(B) 421

- 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.
 - . 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.
 - 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.

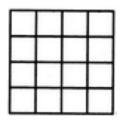
If you are not able to decide the course of action because of insufficient data, your answer is 'data is inadequate'. Mark your answer as,

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.

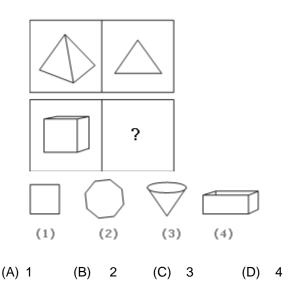
- (A) if the candidate is to be rejected.
- (B) if the candidate may be selected.
- (C) if data is inadequate to take any decision.
- (D) if the candidate is to be referred to the Manager.
- 173. Count the number of squares in the given figure.



- (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