Question Booklet Series:		ROUGH AIIMS TEST F ADMISSIONS (ATMA)		Question Booklet Number:
А	INST	RUCTIONS	Į	
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

(C) Brother

(D) Sister

Patricide: Father:: Sororicide:?

(B) Human

Ornithology: Birds:: Entomology:?

(A) Mother

(A)	Insects	(B) Worms	(C) Mammals	(D) Reptiles
3.	Carpenter : F	urniture : : Sculpto	r:?	
(A)	Scooter	(B) Pot	(C) Building	(D) Statue
4.	Shooting : Bo	ullet:: Archery:?		
(A)	Bow	(B) Spear	(C) Arrow	(D) Rocket
5.	Monkey: Ch	atter :: Elephant : ?	,	
(A)	Neigh	(B) Squeak	(C) Roar	(D) Trumpet
Qu	estion 6 to 10	Directions: Fill in	the blank with	most appropriate
woı	·d			
6.	Docile pers	on is		
(<i>A</i>	A) Hated	(B) Lovable (C) Easily manage	ed (D) Sick
7.	He looks a	at everything from	a personal point of	of view
(A	A) Egoist	(B) Egotist	(C) Egomaniac (D) Egocentric
8.	n	neans the ridiculou	s and miserable f	ailure.
(<i>P</i>	A) Chimera	(B) Anomaly	(C) Blunder	(D) Fiasco

- 9. Which philosophy is expressed by a sentence, "God is nonexistent!"
- (A) Theism (B) Atheism (C) Agnosticism (D) Reverence
- 10. Sharpness and bitterness of the speech or temper is known as
- (A) Apathy (B) Alacrity (C) Assiduity (D) Acrimony

Question 11 to 16 Directions: Comprehension

Marie was born in 1867 in Warsaw, Poland, where her father was Professor of Physics. At an early age, she displayed a brilliant min and a blithe personality. Her great exuberance for learning prompte her to continue with her studies after high school. She becam disgruntled, however, when she learned that the university in Warsa was closed to women. Determined to receive a higher education, sl defiantly left Poland and in 1891 entered the Sorbonne, a Frencuniversity, where she earned her master's degree and doctorate 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. Mar and Pierre were married in 1895 and spent many productive year working together in the physics laboratory. A short time after the discovered radium, Pierre was killed by a horse-drawn wagon 1906. Marie was stunned by this horrible misfortune and endure heartbreaking anguish. Despondently she recalled their close relationship and the joy that they had shared in scientific researce. The fact that she had two young daughters to raise by herself great increased her distress.

Curie's feeling of desolation finally began to fade when she we asked to succeed her husband as a physics professor at the Sorbonn She was the first woman to be given a professorship at the world-famous university. In 1911 she received the Nobel Prize chemistry for isolating radium. Although Marie Curie eventual 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 had a bright mind and apersonality.	18. "It is not very cold. I don't think we need these woollen sweaters."
(A) Strong (B) lighthearted (C) Humorous (D) Strange	"I don't think so,"
12. When she learned that she could not attend the university in Warsaw, she felt	(A) Anyway (B) neither (C) either (D) too
(A) Hopeless (B) Annoyed (C) Depressed (D) Worried 13. Marieby leaving Poland and travelling to France to	19. Abhishek was thrilled to besuch a beautiful and interesting lady.
enter the Sorbonne.	(A) Introduced (B) introduced at
	(C) introduced with (D) introduced to
(A) Challenged authority (B) Showed intelligence	
(C) Behaved (D) Was distressed	
14she remembered their joy together.	20. If you don't understand the text, don't hesitate
	(A) ask a question (B) asking a question
(A) Dejectedly (B) Worried (C) Tearfully (D) Happily	(C) to ask a question (D) to asking a question
15. Herbegan to fade when she returned to the Sorbonne to succeed her husband.	21. The social workerthe two old sisters who were ill.
(A) Misfortune (B) Anger (C) Wretchedness (D) Disappointment	(A) called to the house of (B) called on the house of (C) called to (D) called on
 Even though she became fatally ill from working with radium, Marie Curie was never 	Question 22 to 26 Directions: Pick up the most appropriate
	Antonym for the given word
(A) Troubled (B) Worried (C) Disappointed (D) Sorrowful	· S
Question 17 to 21 Directions: Fill in the blanks by choosing most	22. Enormous
appropriate option	(A) tiny (B) soft (C) average (D) weak
17. "Excuse me. Do you know where the railway station is ?" "It is the bus terminal."	23. Quiescent
(A) opposite of (B) opposed to (C) opposite with (D) opposite to	(A) active (B) dormant (C) weak (D) unconcerned
	24. Relinquish
	(A) Possess (B) abdicate (C) renounce (D) deny

	32. The college library is opennine until four.
25. Exodus	32. The conege notary is opennine until rour.
(A) Influx (B) return (C) arrival (D) restoration	(A) between (B) from (C) for (D) at
	33. We must finish this jobnext Monday.
26. Commissioned	(A) till (B) until (C) with (D) by
(A) started (B) revoked (C) finished (D) terminated	Question 34 to 36 Directions: Fill in the blank by choosing
Question 27 to 30 Directions: Pick up the word with the closest	appropriate option
meaning. 27. Inured	34. Since Radha believed Krishna to be both candid and trustworthy she refused to consider the possibility that his statement is
(A) hardened (B) softened (C) adulterated (D) flattened 28. Mundane	(A) mistaken (B) critical (C) irrelevant (D) insincere35. We cannot believe him because he neverthe grandiose promises he had made.
(A) worldly (B) global (C) futile (D) spatial 29. Patronize	(A) Succeeded to (B) tired of (C) delivered on (D) accomplished for
(A) oppose (B) support (C) bless (D) organize 30. Proxy (A) authorized agent (B) absent (C) Substituted (D) Emulated	36. The reasoning the newspaper article is sothat we cannot see how anyone can be deceived by it. (A) specious (B) coherent (C) cogent (D) astute Question 37 to 43 Directions: Comprehension
VERBAL SKILL PART- B (31 to 60)	On their visit to school specifically, fire fighters tell the students the things: A smoke detector should be placed on each floor of a hom While sleeping, people are in particular danger of an emergent fir and there must be a detector outside each sleeping area. A good si for a detector would be a hallway that runs between living spaces ar bedrooms. Because of the dead-air space that might be missed by turbulent h
Question 31 to 33 Directions: Choose the most appropriate preposition to fill in the blank	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 the content of the ceiling.

I often take walks _____the morning.

(C) by

(D) in

(B) at

31.

(A) on

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 fumes are likely to cause false alarms.

- 37. Which organizational scheme does this list of instructions follow?
 - (A) hierarchical order
 - (B) comparison-contrast
 - (C) cause-and-effect
 - (D) chronological order by topic
- 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.
- 40. 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.
- 41. 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.

- 42. 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.
- 43. 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.
 - (C) in all hallways of a home.
 - (D) in kitchens where fires are most likely to start.

Question 44 to 47 Directions: Comprehension

Charles Darwin was a biologist whose famous theory of evolution 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 show that higher species came into existence as a result of the gradult transformation of lower species, and that the process of transformatic could be explained through the selective effect of the nature environment upon organisms. He concluded that the principles and natural selection and survival of the fittest govern all life. Darwin explanation of these principles is that because of the food supperblem, the young of any species compete for survival. Those your that survive to produce the next generation tend to embody favorabe natural changes that are passed on by heredity. His major work the contained these theories is *On the Origin of the Species*, written 1859. Many religious opponents condemned this work.

- 44. According to the passage, Charles Darwin was which of the following?
 - (A) a priest
- (B) a biologist
- (C) an animal trainer
- (D) a politician
- 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 form
 - (C) Natural forces do not affect life on Earth.
 - (D) All species were individually created.

46. Darwin's explanation that the young of any species compete for food and survival, and those that survive are strong and pass their	Question 53 to 55 Directions: Find the erroneous construct in the sentence			
traits on to their young was called which of the following?	53. I believe / that respect / is more preferable than / money.			
(A) belief in creationism	(A) (B) (C) (D)			
(B) the catastrophic theory				
(C) theory of natural selection and survival of the fittest	54. I enjoyed / during my / stay in / Holland.			
(D) the study of anthropology	(A) (B) (C) (D)			
47. According to the passage, how was Darwin's book, <i>On the Origin</i>	55. Modern film techniques / are far superior / than that / employed in the past (A) (B) (C) (D)			
of the Species, received?	(A) (B) (C) (D)			
(A) Scientists gave their immediate approval of Darwin's book.	Question 56 to 60 Directions: Fill in the blanks by choosing			
(B) Religious opponents condemned Darwin's book.	appropriate word(s)			
(C) The world ignored Darwin's book.				
(D) Darwin's book became an immediate bestseller.	56. Unlike his calmer, more easygoing colleagues, the senator was, ready to quarrel at the slightest provocation.			
Question 48 to 52 Directions: Find the most synonymous words	(A) Whimsical (B) irascible (C) gregarious (D) ineffectual			
from the options.				
	57. Jill wasby her employees because she oftenthem for not working hard enough.			
48. CONNOISSEUR	(A) deified goaded (B) loathed berated			
io. contrologica	(C) disregarded eulogized (D) cherished decided			
(A) Lover (B) Interpreter (C) Expert (D) Timid	(e) and galled (e) choices			
49. CLANDESTINE	58. Deep ideologicaland internal power struggles			
19. CLANDESTINE	the government.			
(A) Public (B) Artistic (C) Secret (D) Violent	(A) similarities protracted (B) distortions accelerated			
ZO CROVEL	(C) agreementsstymied (D) divisions paralyzed			
50. GROVEL				
(A) Decide (B) Vomit (C) Throw (D) Crawl	59. A glue produced by bees totheir hives appears to contain antibiotic substances.			
51. SUBVERT	(A) collect (B) design (C) build (D) decorate			
	(A) concer (B) design (C) build (B) decorate			
(A) Overthrow (B) Submit (C) Dictate (D) Decide 52. BANAL	60. Next day the newspaper was filled with thedetails of the murder.			
	of the marger.			

QUANTITATIVE SKILL PART-A (61 to 90)

(C) 135073

(C) 5967019

63. Two numbers are in the ratio of 15:11. If their H.C.F. is 12, find

(D) 43264

(D) 558692

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

(B) 91809

(B) 5967013

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

(A) 180348

(A) 541326

the Numbers.

(A) 180,132	(B) 186,165	(C) 184,139	(D) 133,169			during the who		e average speed
64. Find the v	value of (1-(1/3))(1-	-(1/4))(1-(1/5))	(1-(1/100))		(A) 67.2	(B) 76.2	(C) 66.1	(D) 70
(A) 1/25	(B) 1/50	(C) 1/15	(D) 1/45	73.			is 42 and their prence between the	
	an spends 2/5 of his			74.	(A) 4	(B) 6	(C) 8	(D) 10
	ft with him, find hi			/4.	their recipro		ns such that the	Suili Oi
(A) 1000	(B) 2400	(C) 1500	(D) 2000			the two parts.		
					(A) 25, 35	(B) 30, 20	(C) 15, 35	(D) 20, 20
oranges in considerab	the crate. If three	e out of every fou there are 12 uns	ango for every forty ir bruised oranges are alable oranges in the te?	75.		Nikita is more th		ta is 240. If twice by 4 years, what
(A) 640	(B) 1280	(C) 480	(D) 360		(A) 21	(B) 12	(C) 15	(D) 20
of 1200 per increasing	r Year. Rampur has at the rate of 800 p	s a population of 4 per year. In how m		76.	7 respective	ely. hence, this ratio	Siddhi and Anus	hka's age was 6: e 7: 8. How old
population	of the two villages	s, is equal?			(A) 56	(B) 36	(C) 63	(D) 44
(A) 23	(B) 13	(C) 22	(D) 12					
				77.	Find the va	lue of $(2^{1/4}-1)$ (2	$2^{3/4}+2^{1/2}+2^{1/4}+1$	
	s and three pencils Find the cost of a p		Pens and a pencil cost		(A) 1	(B) 2	(C) 0	(D) 12
(A) Rs.20	(B) Rs. 10	(C) Rs.25	(D) Rs. 15	78	If $3y + x >$ of y?	2 and $x + 2y \le 3$,	What can be sa	id about the value
69. What is the	e square root of 0.0	0009?			(A) $y = -1$	(B) y >-	1 (C) $y < -1$	(D) $y = 1$
(A) 0.03	(B) 0.3	(C) 3	(D) 0.003					

70.

71.

72.

Nine persons went to a hotel for taking their meals 8 of the spent Rs.12 each on their meals and the ninth spent Rs.8 mo

than the average expenditure of all the nine. What was the tot

(C) 120

(C)35

Distance between two stations A and B is 778 km. A

from A to B at 84 km per hour and returns back to A with a uniform speed of 56 km per hour. Find the average speed

The average age of a class of 39 students is 15 years. If the age of the teacher be included, then the average increases by 3

(D) 107

(D) 30

money spent by them?

(B) 117

months. Find the age of the teacher.

(B) 25

train covers the journey

(A) 118

(A) 20

	green and the sum of red balls and green balls is less than 13, at most how many red balls are there?					A, B and C enter into partnership. A invests 3 tir as B and B invests two-third of what C invests. A the year, the profit earned is Rs. 6600. What is the			sts. At the end of
	(A) 4	(B) 5	(C) 6	(D) 7		?			
						(A) 2400	(B) 6600	(C) 1200	(D) None of the
81.	machine, Q When Q sta kg. Similar	also climbs onds, R also cl ly the weight o	n, and the weightimbs on, and the	ands on a weighing ht shown was 132 kg. e machine shows 130 and as 102 kg and that	89.	on 8th Dec, 20		ls. What day o	of the week was i
	(A) 58kg	(B) 78 kg	(C) 67 kg	(D) 44 Kg		(A) Sunday	(B) Thursday	(C) Tuesda	y (D) Friday
82.	difference of		a person who	3 1/3%, then what purchases an article (D) None	90.	Viju joined hir	n Rs.57, 000. A ded between the	t the end of the	
83.		-	creased by 50%	and subsequently		(A) 2	(B) 5	(C) 4	(D) 3
	increased b 50%. How i	y nuch percent o	does he lose?						
	(A) 20	(B) 25	(C) 35	(D) 30		OU	JANTITATI	VE	
84.	During one the total	year, the popu	ılation of town	increased by 5% .If			SKILL PAR		
	population			nd year, then what of the first year?			120)		
85.				(D) 9000 identical looking t gets at least one	91.	what length of days?	build a wall 66 a similar can bo	e built by 86 m	nen in 8
	(A) 5040	(B) 210	(C) 84	(D) None of these		(A) 49m	(B) 59m	(C) 61m	(D) 70m
86.	A father pu are of same dark room	rchases dress to colour but of	for his three day different size .t	ighters. The dresses he dress is kept in Il the three will not	92.	do the same Jo	b. How long sh	ould it take bo	akes 10 hours to th Baban and ttly, to do the sam (D) 9
	(A) 2/3	(B) 1/3	(C) 1/6	(D) 1/9	93.	Two pipes A a respectively. If	nd B can fill a to f both the pipes e will be taken t	ank in 36 hour are opened sin	rs and 46 hours nultaneously,
						(A) 20	(B) 25	(C) 35	(D) 30
						(A) 20	(B) 25	(C) 35	(D) î

87.

call?

(A) 4 minutes (B) 7 minutes

If the price of an item is decreased by 10% and then increased

There are 20 balls which are red, blue or green. If 7 balls are

(B) No change

(D) An increase of 1%

by 10%, the net effect on the price of the item is,

(A) Decrease of 99%

(C) decrease of 1%

79.

80

The times taken by a phone operator to complete a call are 9,

A, B and C enter into partnership. A invests 3 times as much

(C) 1 minutes (D) 5 minutes

2,3,1,5 minutes respectively. What is the average time per

94.	•	overs a distar n km/hr of th		n in 2 min 30 sec. What is	10
	(A) 20	(B) 18	(C) 36	(D) 9	
95.	10 a.m. and travels tow	d ards B at 65	kmph. Anot	part. A train starts from A a her train starts from B at 1 aph. At what time do they	
	(A) 17/4	(B) 4/17	(C) 17	(D) 390	
96.	what will it	t pass a man	who is runn	a speed of 59 kmph In ing at 7 kmph in the he train is going?	10
	(A) 55/3	(B) 12	(C) 18	(D) 66	
97.	_	5 and secon		95 Rs. per week. If one 5 how much is the salary o	of
	(A) 105	(B) 120	(C) 180	(D) 75	10
98.				arch beauro business and . What is the value of	_10
	(A) 55/3	(B) 150000	(C) 1800	000 (D) 160000	
99.	tapes is les	_	feet. What is	6800 feet. None of the the greatest possible lengt	Q h w
	(A) 6400	(B) 6800	(C) 760	0 (D) 6700	
100.	_	one year ago	_	eversed then I get the age of stwice as that of my son.	of
	(A) 63	(B) 73	(C) 37	(D) 36	
101.	Solve: x +	$y = x^2 - y^2 = 2$	3 find y		
	(A) 11	(B) 12	(C) 24	(D) 36	

102.		amounts to Rs. 683 annually, find the	,	
	(A) 8	(B) 10	(C) 9	(D) 7

103. Simplify: (log 75/16-2 log 5/9+log 32/243)

(B) Log 4

(A) Log 2

04. Find the area of a right-angled triangle whose base is 12 cm and hypotenuse is 13cm.

(C) Log 1

(D) Log 3

(A) 25 (B) 30 (C) 5 (D) 15

105. 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

106. 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

107. 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

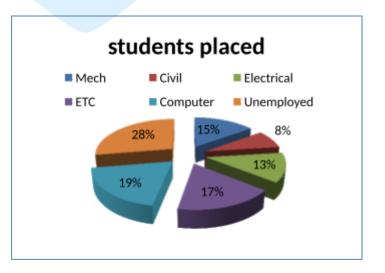
108. If the height of a pole is 2meters and the length of its shadow is 2 meters, find the angle of elevation of the sun.

(A) 30 (B) 90 (C) 180 (D) 60

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

- 109. Which oil shows lowest tool wear?
 - (A) Sunflower (B) Coconut
- (C) Blassocut
- (D) Soyabean
- 110. Which oil shows lowest tool wear?
 - (A) Dry
- (B) Coconut (C) Blassocut (D) Soyabean
- What is approximate difference between minimum and 111. maximum tool wear at 80 rpm.
 - (A) 0.1
- (B) 0.2
- (C) 0.3
- (D) 0.4
- 112. Conclusion based on the graph
 - (A) Tool wear is higher for dry condition.
 - (B) Tool wear increases as speed increases.
 - (C) Sovabean oil has lowest tool wear.
 - (D) All the above
- 113. 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
- 114. 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

Ouestion 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. How many students of college placed in different branches?
 - (A) 217
- (B) 300
- (C) 271
- (D) 100
- 116. How many students of college are not placed?
 - (A) 78
- (B) 83
- (C) 28
- (D) 74
- 117. How many students from computer and Electrical are placed?
 - (A)78
- (B)96
- (C) 32
- (D) 74
- 118. What is the difference between the numbers of placed students from mechanical and civil students?
 - (A) 21
- (B) 16
- (C) 24
- (D) 32
- 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. Look at this series: 58, 52, 46, 40, 34 . . . What number should come next?
 - (A) 26
- (B) 28
- (C) 30
- (D) 32
- 122 Find the number of triangles in the given figure.
 - (A) 18
- B) 20
- C) 24
- D) 27

-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. What is the profession of A?
 - (A) Manager
- (B) Engineer
- (C) Advocate
- (D) None of these
- 124. How is A related to E?
 - (A) Father (B) Grandfather (C) Grandmother (D) Wife
- 125. How many male members are there in the family?
 - (A) Four (B) Six (C) Cannot be determined (D) None of these
- 126. Who are the two couples in the family?
 - (A) AD and CB
- (B) AE and DE
- (C) AB and CD
- (D) AC and BD



- 127. 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
- 128. 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

- 129. 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
- 130. 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
- 131. What was the day of the week on, 16th July, 1776?
 - (A) Saturday
- (B) Tuesday

(C) Sunday

- (D) Saturday
- 132. 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
- 133. Insert the missing number.7, 26, 63, 124, 215, 342,()
 - (A) 391
- (B) 421
- (C) 511
- (D) 451
- **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

- 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, the restaurant's floors are polished on either
- (A) Tuesday or Wednesday
- B) Tuesday or Thursday
- (C) Wednesday or Thursday
- D) Thursday or Saturday
- 137. 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

- 138. 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
- 139. Assume that floors are polished on consecutive instead of no consecutive days but that all other scheduling policies are unchange. For how many of the six days can it be determined both whether plan are watered and whether floors are polished?
- (A) Two
- (B) Three
- (C) Five
- (D) Six

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. 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
- 146. 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
- 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.

- 149. "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.
 - The performance of an individual generally is not known at the time of appointment offer.
- II. 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)

- 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. 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

- 153. Sangita decided to get the railway reservation in October, for the journey she wants to make in December, to Mumbai.
 - I. 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

Directions for Questions 154-158:

Given below is a set of statements. Examine the statements an 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:

- 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:

- It is the aim of the municipal council authority to get the air pollution reduced by 20% in the next two months.
- II. 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. B2CD,	, BCD4, B5CD, BC6D
	(A) B2C2D
	(B) BC3D
	(C) B2C3D
	(D) BC4D
160. QAR, RAS	, SAT, TAU,
	(A) TAS
	(B) UAT
	(C) UAV

- 161. 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

(D) VAU

- (B) 3/22
- (C) 5/71
- (D) 7/51
- 162. 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
- 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 Senio 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) gorbitusi (B) flurgorbi
- (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.

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

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