

NAC TECH Paper 1**VERBAL ABILITY**

Directions for Q1 to Q2: In the following exercise four words are given of which three are misspelt. Choose the correctly spelt word.

- 1 (a) Missile (b) Misile (c) Missille (d) Misille
 2 (a) Permisible (b) Permissible (c) Permissable (d) Permisable

Directions for Q3 to Q5: The following pair of words is followed by four other pairs of words. Choose the pair that has a relationship similar to that in the given pair.

- 3 Perspicacity : Acute :: _____ : _____
 (a) Caprice : Whimsical
 (b) Ignorance : Pedantic
 (c) Adaptability : Prescient
 (d) Discretion : Literal
- 4 Naive : Experience :: _____ : _____
 (a) Rude : Ill-Mannered
 (b) Miserly : Money
 (c) Unschooled : Education
 (d) Pristine : Elegance
- 5 Discomfited : Blush :: _____ : _____
 (a) Contemptuous : Sneer
 (b) Nonplussed : Weep
 (c) Affronted : Blink
 (d) Aggrieved : Gloat

Directions for Q6 to Q8: Choose the synonym of the given word.

- 6 IMPERTINENT
 (a) impolite (b) profane (c) impeccable (d) supercilious
- 7 PREPOSTEROUS
 (a) formal (b) judicious (c) ridiculous (d) ceremonious
- 8 SLOTHFUL
 (a) fat (b) stubborn (c) ignorant (d) lazy

Directions for Q9 and Q10: Choose the word opposite in meaning to the given word.

- 9 TRANQUIL
 (a) peaceful (b) disturbed (c) painful (d) punishing
- 10 INTRUDE
 (a) tear away (b) keep away (c) force (d) compelled

- 11 **Directions for Q11 and Q12:** Use appropriate punctuation marks in the following sentences.

It is a fine idea let us hope that it is going to work
 (a) It is a fine idea, let us hope that it is going to work.
 (b) It is a fine idea; let us hope that it is going to work.
 (c) It is a fine idea let us hope, that it is going to work.
 (d) It is a fine idea, let us hope, that it is going to work.

- 12 In the words of Murphy's Law Anything that can go wrong will go wrong

(a) In the words of Murphy's Law Anything that can go wrong will go wrong.
 (b) In the words of Murphy's Law, Anything that can go wrong will go wrong.
 (c) In the words of Murphy's Law: 'Anything that can go wrong will go wrong.'
 (d) In the words of Murphy's Law- Anything that can go wrong will go wrong.

Directions for Q13: Four sentences are given below which when properly sequenced form a coherent paragraph.

- 13 A. The situations in which violence occurs and the nature of that violence tends to be clearly defined at least in theory, as in the proverbial Irishman's question: "Is this a private fight or can anyone join in?"
 B. So the actual risk to outsiders, though no doubt higher than our societies, is calculable.
 C. Probably the only uncontrolled applications of force are those of social superiors to social inferiors and even here there are probably some rules.
 D. However binding the obligation to kill, members of feuding families engaged in mutual massacre will be genuinely appalled if by some mischance a bystander or outsider is killed.
 (a) DABC (b) ACDB (c) CBAD (d) DBAC

Directions for Q14: In the following question, there are some sentences, which when properly sequenced, form a logical and coherent paragraph. It is known that the statement labelled I and II are at their correct places. Among the given options, choose the best option.

- 14 I. The aurora borealis is one of the most beautiful spectacles in the sky.
 A. Sometimes a fan-like cluster of rays, at other times long golden draperies gliding one over the other.
 B. The colour and shapes change every instant.
 C. The theory of its origin is still, in part, obscure, but there can be no doubt that the aurora is related to the magnetic phenomena of the earth.
 D. Blue, green, yellow, red, and white combine to give a glorious display of colour.
 II. And therefore is connected with the electrical influence of the Sun.
 (a) BDAC (b) BACD (c) BADC (d) ABDC

Directions for Q15 to Q17: Find the odd word out.

- 15 (a) Niggard (b) Clumsy (c) Preposterous (d) Jolly
 16 (a) Honest (b) Depressed (c) Satisfied (d) Annoyed
 17 (a) Inflation (b) Discourse (c) Interest (d) Debt

Directions for Q18 to Q20: Choose the correct option to replace the underlined part to make the sentence meaningful and correct. Choose option (e) if there is no correction.

18. People who are educated, usually look down at those who are illiterate.
 (a) look down of those
 (b) look down on them
 (c) look down upon those
 (d) look down at them
19. Hearing that the Statue of Liberty did not have a pedestal, a campaign was begun by Joseph Pulitzer to raise money for the construction of one.
 (a) a campaign was begun by Joseph Pulitzer to raise money
 (b) a campaign to raise money was initiated by Joseph Pulitzer
 (c) money was raised in a campaign by Joseph Pulitzer
 (d) Joseph Pulitzer began a campaign to raise money
20. One of the most common types of mistakes that inexperienced physicians make is misreading symptoms; another that occurs about as frequently is recommending inappropriate treatment.
 (a) symptoms, another that occurs
 (b) symptoms; another one that occurs
 (c) symptoms; another one which is occurring
 (d) symptoms, the other, and it occurs

Directions for Q21 to Q23: Identify the part of a sentence that contains error.

21. My father saw how much(A)/ Uncle Tom was enjoying (B)/ his early retirement (C)/ so he decided to do the same (D)/.
22. The engineer, who is renowned for his ingenuity(A)/ has designed(B)/ a very unique(C)/ cooling system for our new plant in Spain(D)/.

Directions for Q23 to Q27: Use the following information to answer the questions given below.

23. Acme brand aspirin claims to be the best headache relief available on the market today. To prove this claim, Acme called 10 people and asked them their thoughts on headache relief products. All 10 of them stated that they unequivocally use Acme brand aspirin on a regular basis and that they believe it to be the best headache relief available on the market today.
 Which of the following would most weaken this argument?
 (a) Acme brand aspirin is highly addictive.
 (b) The 10 people called were married to the company's top 10 executives, and they were coached on what to say.
 (c) This survey was conducted by an independent company.
 (d) The 10 people were selected at random.
24. Psychological research indicates that college hockey and football players are more quickly moved to hostility and aggression than are college athletes in noncontact sports such as swimming. But the researchers' conclusion that contact sports encourage and teach participants to be hostile and aggressive is untenable. The football and hockey players were probably more hostile and aggressive to start with than the swimmers.
 Which of the following, if true, would most strengthen the conclusion drawn by the psychological

- researchers?
- (a) The football and hockey players became more hostile and aggressive during the season and remained so during the off-season, whereas there was no increase in aggressiveness among the swimmers.
- (b) The football and hockey players, but not the swimmers, were aware at the start of the experiment that they were being tested for aggressiveness.
- (c) The research studies were designed to include no college athletes who participated in both contact and noncontact sports.
- (d) Throughout the United States, more incidents of fan violence occur at baseball games than occur at hockey or football games.
- 25 The earth's resources are being depleted much too fast. To correct this, the United States must keep its resource consumption at present levels for many years to come. Which of the following, if true, would most strengthen the argument above?
- (a) New resource deposits are constantly being discovered.
- (b) The United States consumes one-third of all resources used in the world.
- (c) Other countries need economic development more than the United States does.
- (d) Other countries have agreed to hold their resource consumption at present levels.
- 26 Stock analyst: "We believe Company A's stock will appreciate at 35% a year for the next 5 to 7 years. Company A just became the leader in its industry and we expect its sales to grow at 8% a year."
Commentator: "But how can the stock's price be expected to grow more quickly than the company's underlying sales?"
- (a) The company's expenses will be declining over the next 5 to 10 years.
- (b) The company just won a patent on a new product.
- (c) Company A's stock is currently overvalued by a significant amount.
- (d) The 5 to 7 year time frame is too long for anyone to accurately forecast.
- 27 A company's personnel director surveyed employees about their satisfaction with the company's system for awarding employee performance ratings. The survey data indicated that employees who received high ratings were very satisfied with the system. The personnel director concluded from these data that the company's best-performing employees liked the system. The personnel director's conclusion assumes which of the following?
- (a) No other performance rating system is as good as the current system.
- (b) The company's best-performing employees received high ratings.
- (c) Employees who received low ratings were dissatisfied with the system.
- (d) Employees who receive high ratings from a performance-rating system will like that system.

READING COMPREHENSION

Directions for Q28 to Q32: Read the following passage and answer the following questions.

Mr. Harding was not a happy man as he walked down the palace pathway, and stepped out into the close. His position and pleasant house were a second time gone from him; but that he could endure. He had been schooled and insulted by a man young enough to be his son; but that he could put up with. He could even draw from the very injuries which had been inflicted on him some of that consolation which, we may believe, martyrs always receive from the injustice of their own sufferings. He had admitted to his daughter that he wanted the comfort of his old home, and yet he

could have returned to his lodgings in the High Street, if not with exultation, at least with satisfaction, had that been all. But the venom of the chaplain's harangue had worked into his blood, and sapped the life of his sweet contentment.

'New men are carrying out new measures, and are carting away the useless rubbish of past centuries! What cruel words these had been- and how often are they now used with all the heartless cruelty of a Slope! A man is sufficiently condemned if it can only be shown that either in politics or religion he does not belong to some new school established within the last score of years. He may then regard himself as rubbish and expect to be carted away. A man is nothing now unless he has within him a full appreciation of the new era; an era in which it would seem that neither honesty nor truth is very desirable, but in which success is the only touchstone of merit. We must laugh at everything that is established. Let the joke be ever so bad, ever so untrue to the real principles of joking; nevertheless we must laugh - or else beware the cart. We must talk, think, and live up to the spirit of the times, or else we are naught.

New men and new measures, long credit and few scruples, great success or wonderful ruin, such are now the tastes of Englishmen who know how to live! Alas, alas! Under such circumstances Mr. Harding could not but feel that he was an Englishman who did not know how to live. This new doctrine of Mr. Slope and the rubbish cart sadly disturbed his equanimity. 'The same thing is going on throughout the whole country!' 'Work is now required from every man who receives wages!' And had he been living all his life receiving wages, and doing no work? Had he in truth so lived as to be now in his old age justly reckoned as rubbish fit only to be hidden away in some huge dust-hole? The school of men to whom he professes to belong, the Grantlys, the Gwynne's, are afflicted with no such self-accusations as these which troubled Mr. Harding. They, as a rule, are as satisfied with the wisdom and propriety of their own conduct as can be any Mr. Slope, or any Bishop with his own. But, unfortunately for himself, Mr. Harding had little of this self-reliance. When he heard himself designated as rubbish by the Slopes of the world, he had no other resource than to make inquiry within his own bosom as to the truth of the designation. Alas, alas! The evidence seemed generally to go against him.

- 28 The main cause of Mr. Harding's unhappiness as he leaves the Bishop's Palace is
 (a) the loss of his house
 (b) the loss of his position
 (c) the need to live with his daughter
 (d) the thought-provoking words of the chaplain
- 29 It can be inferred that Slope is
 (a) the chaplain (b) the Bishop (c) a foreigner (d) a young writer
- 30 It can be inferred that Mr. Harding is especially disturbed because he
 (a) feels there may be some truth in regarding himself as 'rubbish'
 (b) does not feel himself to be old
 (c) is offended by the young man's impertinence
 (d) believes no one else feels as he does
- 31 Mr. Harding differs from others of his 'school' because they
 (a) do not believe Slope
 (b) have never been called 'rubbish'
 (c) are sure their conduct is irreproachable
 (d) have already examined their consciences

- 32 The tone of the sentence 'New men.....live'
 (a) objective (b) ironic (c) derogatory (d) expository

ANALYTICAL ABILITY

- 33 A person walking at $\frac{4}{5}$ of his usual speed reached the destination by 15 minutes late. What is his usual time of travel?
 (a) 1 hour (b) 2 hours (c) 1.5 hours (d) 2.5 hours
- 34 75 boys can complete a work in 24 days, how many men need to complete twice the work in 20 days? (2 men can do 3 boys work)
 (a) 180 (b) 150 (c) 120 (d) 270
- 35 Balan is 46 years old. He is 4 years older than thrice his son's age. Find the age of his son?
 (a) 23 years (b) 13 years (c) 15 years (d) 14 years
- 36 Eight people are planning to share equally the cost of rental car. If one person withdraws from the arrangement and the other share equally the entire cost of the car, then the share of each of the remaining persons is increased by
 (a) $\frac{1}{9}$ (b) $\frac{1}{8}$ (c) $\frac{1}{7}$ (d) $\frac{7}{8}$
- 37 There are seven pairs black shoes and five pairs of white shoes .They all are put into a box and shoes are drawn one at a time. To ensure that at least one pair of black shoes are taken out, what is the minimum number of shoes required to be drawn out?
 (a) 12 (b) 7 (c) 13 (d)18
- 38 If the numerator of a fraction is increased by 10% and the denominator is increased by 20%, then the fraction reduces to $\frac{1}{2}$. If the denominator is more than the numerator by 5, what is the original fraction?
 (a) $\frac{7}{12}$ (b) $\frac{8}{13}$ (c) $\frac{6}{11}$ (d) Cannot say
- 39 In a jail, there are five cells and four prisoners. In how many possible ways can they be accommodated so that there is only one in a cell?
 (a) 120 (b) 5^4 (c) 4^5 (d) None of these
- 40 A coin is tossed three times, what is the probability of getting neither all head nor all tail?
 (a) $\frac{1}{4}$ (b) $\frac{1}{2}$ (c) $\frac{3}{4}$ (d) 0
- 41 If radius of a circle is reduced from 5cm to 4cm then what is the percentage decrease in area?
 (a) 40% (b) 63% (c) 36% (d) 33%
- 42 On selling an article for Rs.550, a man gains 10%. What will be the selling price, if desired profit is 20%?
 (a) 500 (b) 600 (c) 660 (d) 715
- 43 A 4 inch cube is taken and it is painted in green colour and then it is cut into 1 inch cubes. How many cubes are 2 faces painted?
 (a) 12 (b) 24 (c) 36 (d) 48

- 44 The probability of A solving a problem is $\frac{2}{3}$. The probability of B solving a problem is $\frac{3}{4}$. If the same problem is given to both of them, what is the probability of neither of them solving it?
 (a) $\frac{3}{4} - \frac{2}{3}$ (b) $(1 - \frac{3}{4}) \times \frac{2}{3}$ (c) $\frac{1}{3} + \frac{1}{4}$ (d) $\frac{1}{3} \times \frac{1}{4}$
- 45 The ratio of weights of two boys is 14 : 13. When the weight of the first boy is increased by 12.5% and that of second by 4kg, then the ratio of their weights becomes 9 : 8. Original weight of the first boy is
 (a) 52 kg (b) 56 kg (c) 60 kg (d) 66 kg
- 46 The average age of a group of nine men today is the same as it was six years ago, with one of the men having been replaced by another much younger man. The difference in ages of the man being replaced and the man replacing him is how many years?
 (a) 53 (b) 54 (c) 55 (d) 56

Direction for Q47 : Use the following information to answer the question given below

1. If the question can be answered with the help of statement I alone.
2. If the question can be answered with the help of statement II alone.
3. If the question can be answered with the help of both I and II.
4. If none of the above options is true.

- 47 What is the time difference between New York and London?
 Statement I: The departure time at New York is exactly 9.00 a.m. local time, and the arrival time at London is on the same day at 10 a.m., local time.
 Statement II: The flight time is five hours.
 (a) 1 (b) 2 (c) 3 (d) 4

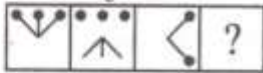
- 48 Predict the next figure.



- (a) 1 (b) 2 (c) 3 (d) 4

- 49 The unit digit in the expression $(36^{234} \times 33^{512} \times 39^{380}) - (54^{29} \times 25^{123} \times 31^{512})$ will be
 (a) 2 (b) 6 (c) 8 (d) 4

- 50 Problem Figures:



- (A) (B) (C) (D)
 (a) 1 (b) 2

Answer Figures:



- (1) (2) (3) (4) (5)
 (c) 3 (d) 4

ATTENTION TO DETAIL

Directions for Q51 to Q55:

Follow the directions given below to answer the questions that follow. Your answer for each question below would be:

- A. If ALL THREE items given in the question are exactly ALIKE.
 B. If only the FIRST and SECOND items are exactly ALIKE.
 C. If only the FIRST and THIRD items are exactly ALIKE.
 D. If None of the above.

51. A0067DF667016 A0067DF667016 A0067DF667106
 (a) A (b) B (c) C (d) D
52. Janmasthanami Janmasthanami Janmasthanami
 (a) A (b) B (c) C (d) D
53. If * stands for +, / stands for *, + stands for - and - stands for /, then $27/5*8+11-7=?$
 (a) 141.4 (b) 38.4 (c) 16.4 (d) 36.1
54. If * stands for -, / stands for +, + stands for / and - stands for *, then which of the following is TRUE?
 A) $8/12*4+20-8 = 18.4$ B) $12*8/4+20-8 = -5.6$ C) $8*4/12+8-8 = -12.2$ D) $8*8/4+20-8 = -4$
 (a) A (b) B (c) C (d) D
55. Identify the correct match 345611242627
 A) 345612414627 B) 345611426227 C) 345611624227 D) 345616242227
 (a) A (b) B (c) C (d) D

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ANSWE

NAC TECH Paper 1			
Q NO	Answer	Q NO	Answer
1	(a)	44	(d)
2	(b)	45	(b)
3	(a)	46	(b)
4	(c)	47	(c)
5	(a)	48	(c)
6	(a)	49	(b)
7	(c)	50	(c)
8	(a)	51	(a)
9	(a)	52	(d)
10	(b)	53	(a)
11	(d)	54	(a)
12	(c)	55	(d)
13	(b)		
14	(a)		
15	(a)		
16	(a)		
17	(b)		
18	(c)		
19	(d)		
20	(b)		
21	(d)		
22	(c)		
23	(b)		
24	(a)		
25	(b)		
26	(a)		
27	(b)		
28	(d)		
29	(a)		
30	(a)		
31	(c)		
32	(b)		
33	(a)		
34	(c)		
35	(d)		
36	(c)		
37	(d)		
38	(c)		
39	(a)		
40	(c)		
41	(c)		
42	(b)		
43	(b)		