

Deerwalk Aptitude Test (DAT) - BCA

Instruction

All questions are compulsory.

There are three major sections in this paper - English, Mathematics, and IQ. Each question carries 1 mark.

The marks wise distribution of each of the section is as follows:

Section	Subject	Marks	Time [Suggested]
A	English	40	
B	Mathematics	40	
C	IQ	20	

You are advised to spend the suggested time.

Please darken the most appropriate answer in the provided answer sheet.

-Section A– English

Reading Comprehension

(This passage is extracted from an international economics magazine.)

A win-win negotiation is concluded when both parties gain something of value in exchange for making concessions. Although the balance of power may change during the negotiation process, negotiators on both sides must remain open to options that will ultimately allow for a fair exchange. To achieve a resolution that benefits both parties, everyone involved must be willing to listen carefully to each other's concerns. To arrive at a conclusion that is good for everyone, negotiators must reveal what they value and what they don't value. Good negotiators look for something that their side does not value but to which the other side assigns a high value. By offering it, they lose nothing, but the other side gains something, thereby feeling more disposed to concede something that the other side perceives as valuable.

In addition to listening for ways to help the other side, everyone has to be aware of the limitations that both sides may bring to the table. There are some options that cannot be explored because they are not possible for one of the parties. For example, a price that

does not allow a profit margin for the company that manufactures it is not a point of negotiation, unless the other side can offer a way to increase profits of productivity. If that is not possible, perhaps a service that saves the buyer money might be a way to balance the firm pricing structure of the goods.

A win-win negotiation allows both parties to feel that they made a good deal, but another positive outcome is the way that the people involved feel that they made a good deal, but another positive outcome is the way that the people involved feel good about each other. In traditional bargaining, people on opposite sides of a negotiation tend to view each other as adversaries, a relationship that is often difficult to change after the negotiation has ended and the collaboration is supposed to begin. In a win-win setting, the parties approach the negotiation as colleagues who want to support each other's success. When the deal has been made and the collaboration begins, the people involved are already committed to working together for their mutual benefit.

1. In the given passage, we find the thesis statement in the:
 - a. Beginning of the first paragraph
 - b. End of the first paragraph
 - c. End of the whole extract
 - d. Second paragraph
2. The word 'concede' given in the first paragraph most nearly means:

- a. Argue
 - b. Point out
 - c. Clash
 - d. Realize
3. Who benefits in a win-win negotiation?
- a. The powerful party
 - b. Both the parties
 - c. The third party
 - d. None of the parties
4. How can parties reach to win-win situation?
- a. By putting one's terms and condition strongly
 - b. By achieving a resolution that benefits both the parties
 - c. By pressurizing the other party to submit to your concerns
 - d. By bribing the negotiators
5. Which of the following could be the best topic for the second paragraph?
- a. Win-win negotiation
 - b. Open negotiation
 - c. Limitation in negotiation
 - d. Limitations for both sides
6. What do good negotiators look for?
- a. Early completion of job and prompt salary
 - b. The high preferences and low preferences of both the sides
 - c. Valuable items that matter in the dispute
 - d. A suitable conclusion to him
7. The word 'adversaries' given in the last paragraph is a contrast to:
- a. Opposites
 - b. Fighters
 - c. Friends
 - d. Patriots
8. What does each party feel in a win-win negotiation?
- a. It defeated another party.

- b. It made a good deal.
 - c. It got defeated.
 - d. It will defeat the other party in another case.
9. The nature of writing in the given passage is:
- a. Narrative
 - b. Descriptive
 - c. Expository
 - d. argumentative
10. What do parties in traditional bargaining feel?
- a. The other party is an enemy.
 - b. The other party is the best collaborator.
 - c. The other party is a betrayer.
 - d. The other party is a loyal contractor.

Sentence Completion

11. One of social science's major themes is that of stability versus change; to what extent are individual personalitiesor different over time?
- a. Transient
 - b. Discreet
 - c. Maladjusted
 - d. Static
12. While grizzly bears have long, flat, and somewhat blunt claws, black bears have short, curved andclaws.
- a. Acute
 - b. Fearful
 - c. Abominable
 - d. Obtuse
13. Despite the smile that spread from ear to ear, her eyes relayed a certain
- a. Jubilance
 - b. Sorrow

- c. Mischievousness
 - d. Liveliness
14. The Erie Canal's completion caused economic ripples; property values and industrial output along its route rose exponentially.
- a. Persistent
 - b. Invaluable
 - c. Prodigious
 - d. Incredulous
15. Voters have become so inured to the fickle nature of politicians that they responded to the levy of a new tax with
- a. Amazement
 - b. Stolidity
 - c. exasperation
 - d. perplexity
16. It is desirable to expand the yield of a harvest only whenadditions in time, exertion, and other variable factors of production are not also required.
- a. Predestined
 - b. Commensurate
 - c. Analogous
 - d. Deliberate
17. While moreprofessors continue to insist that video games will never be a proper object of study, the rising generation of more heterodox academicians is inclined to view such talk as positively
- a. Erudite—jejune
 - b. Progressive—pusillanimous
 - c. Pedantic—antediluvian
 - d. Flexible—impactful
18. During the, the demand for goods and services declines and the economy begins to work on its foundation level rather to its highest potential.

- a. Boom
 - b. Trough
 - c. Apex
 - d. Recession
19. With their realization, people suddenly found themselves left withmoral values and little ethical.....
- a. Obsolete—perspective
 - b. Established—grasped
 - c. Pretentious—insinuation
 - d. Extreme—judgment
20. Electronic eavesdropping technology has become sothat the comparatively little law on the subject has become as.....as the horse and buggy.
- a. Repulsive—fictitious
 - b. Rare—ridiculous
 - c. Sophisticated—outmoded
 - d. Clandestine—entangled

Word Analogy

21. Tailor is to suit as edit is to:
- a. manuscript
 - b. Writer
 - c. Paragraph
 - d. Book
22. Shakespeare is to literature as Picasso is to:
- a. painting
 - b. sculpture
 - c. architecture
 - d. photography
23. Lawyer: case
- a. Teacher: school

- b. Scholar: book
 - c. Doctor: disease
 - d. Psychiatrist: clash
24. Longitude: international dateline
- a. Direction: gravitation
 - b. Longitude: time
 - c. Latitude: equator
 - d. North pole: South pole
25. Vehicle: engine
- a. Computer: monitor
 - b. Cell phone: circuit board
 - c. House: gate
 - d. Airplane: wings
26. Fur: Soft
- a. Wood: thick
 - b. Wool: warm
 - c. Silk: expensive
 - d. Iron: hard
27. Curve: accident
- a. Road: footpath
 - b. Vehicles: accident
 - c. Dirt: disease
 - d. Road: traffic
28. Pulsate: Throb
- a. tired: sleep
 - b. walk: run
 - c. examine: scrutinize
 - d. ballet: dancer
29. Umbrage: Offense
- a. Confusion: penance
 - b. Infinity: meaning

- c. Decorum: decoration
 - d. Elation: jubilation
30. Verve: enthusiasm
- a. Loyalty: dishonesty
 - b. Devotion: reverence
 - c. Eminence: anonymity
 - d. Generosity: elation

Grammar and Vocabulary

31. The idiomatic meaning of the phrase 'a dark horse' means:
- a. an evil person
 - b. an unexpected visitor
 - c. an unexpected winner
 - d. a ghost
32. The phrase 'a wild goose chase' means:
- a. a useless effort
 - b. a hard effort
 - c. a lazy trial
 - d. an innocent victim
33. Either his brothers or his sisteralways present.
- a. are
 - b. is
 - c. was
 - d. were
34. What(happen) if Pandora did not open the box?
- a. happened
 - b. had happened
 - c. would happen
 - d. would have happened
35. The collective noun for elephants is called:
- a. a flock of elephants
 - b. a herd of elephants

- c. a parade of elephants
 - d. a troop of elephants
36. Fear of being without mobile phone is called:
- a. Nomophobia
 - b. Necrophobia
 - c. Pyrophobia
 - d. Astrophobia
37. He is interested in cricket but he is not very goodit.
- a. on
 - b. in
 - c. at
 - d. about
38. Sincere people abidethe rules and regulations.
- a. by
 - b. of
 - c. at
 - d. on
39. Don't watch late night movies,? Supply the correct question tag.
- a. will you?
 - b. shall we?
 - c. won't you?
 - d. shall you?
40. The indirect speech of Sharmila said to me, 'I have had my dinner' is:
- a. Sharmila told me that she had her dinner.
 - b. Sharmila told me that she had had her dinner.
 - c. Sharmila told me that she has had her dinner.
 - d. Sharmila told me that she has have her dinner.

-Section B- Mathematics

1. If the product of two consecutive odd number is 2703, then what are these numbers from following?
 - a. 47, 49
 - b. 51, 53
 - c. 17, 19
 - d. 53, 55
2. If $A = \{x : 2 \leq x \leq 5\}$ and $B = \{x : 4 \leq x \leq 7\}$ then $A \cap B$ is which of the following?
 - a. $\{4, 5, 6\}$
 - b. $\{4, 5\}$
 - c. $\{4, 5, 6, 7\}$
 - d. $\{2, 3, 4, 5, 6, 7\}$
3. The absolute value of a difference of intercepts of straight line $5x+3y = 30$ is
 - a. 2
 - b. 3
 - c. 4
 - d. 5
4. If 'n' is an integer, then which one of the following expressions must be even?
 - a. $n(n+1)$
 - b. n^2+1
 - c. $n(n+2)$
 - d. $n(n+4)$
5. The difference of a matrix with its difference is
 - a. null
 - b. row
 - c. symmetric
 - d. skew symmetric
6. If a function is defined as $f(x) = x^2+4$, then the formula to define the inverse is
 - a. $\sqrt{x+4}$
 - b. $\sqrt{x+2}$
 - c. $\sqrt{x+8}$
 - d. $\sqrt{x-4}$
7. If one root of $2x^2+kx-15=0$ has one root then value of k is
 - a. 1
 - b. -1
 - c. 2
 - d. - 2
8. If $a^x = b$, $b^y = c$ and $c^z = a$, then what is the value of xyz?
 - a. c
 - b. a
 - c. b
 - d. 1
9. If $2x+2y = 60$ then the average value of x and y is
 - a. 13
 - b. 15
 - c. 17
 - d. 19

20. The value of $\int_0^1 (x^2 + 5)dx$ is equals to

- a. $5\frac{1}{3}$ b. $3\frac{2}{5}$ c. $5\frac{1}{3}$ d. $2\frac{3}{5}$

21. What is the chance of a pregnant lady on Tuesday?

- a. $\frac{3}{7}$ b. $\frac{1}{7}$ c. 1 d. $\frac{1}{2}$

22. The equation $x^2 = y^2$, represents

- a. circle b. ellipse c. parabola d. pair of straight lines

23. The solution of $|2x + 3| \leq 1$ is equivalent to

- a. $2 \leq x \leq -1$
b. $-2 \leq x \leq 1$
c. $2 \leq x \leq 1$
d. $-2 \leq x \leq -1$

24. Which one is true for any real number of x

- a. $\sqrt{x} < x < x^2$ b. $\sqrt{x} < x^2 < x$ c. $x^2 < x < \sqrt{x}$ d. cannot be determined

25. If $n=10$, $\sum x=120$, $\sum x^2=1530$, what is its coefficient of variation?

- a. 10% b. 15% c. 25% d. 30%

26. The value of $\lim_{x \rightarrow 0} \frac{\sin 4x}{\tan 2x}$ is equals to

- a. 1 b. 2 c. 3 d. 4

27. The orthocenter of a triangle having coordinates (0, 1), (1, -2) and (2, -3) is

- a. (-7, -6) b. (-6, -7) c. (6, 7) d. (7, 6)

28. What is the square of the sum of the first 10 natural numbers?

- a. 55 b. 110 c. 2025 d. 3025

29. If the matrix is of order $m \times n$, then how many elements will be a single column?

- a. m b. n c. $m+n$ d. mxn

30. Two lines are perpendicular if the product of their slope is

- a. 1 b. -1 c. 0 d. ∞

31. What is the sum of the first five prime numbers?

- a. 25 b. 28 c. 29 d. 31

32. Last year Sita was 4 feet tall and this year she is 5 feet tall, what is the percentage change in her height?

- a. 15% b. 20% c. 20% d. 25%

33. What is the minimum number of $n(M \cap N)$, if $n(U)=200$, $n(P)=75$ & $n(Q)=50$?

- a. 200 b. 75 c. 50 d. 125

34. The ratio of 1 km to 500m is which of the following is?

- a. 2:1 b. 1:2 c. 2:3 d. 1:5

35. What is the half of a quarter of 1200?

- a. 100 b. 150 c. 200 d. 250

36. What is the total cost of carpeting having length 8m and breadth 4.5m at the rate of Rs2/ m^2 ?

- a. Rs75 b. Rs150 c. Rs200 d. Rs72

37. If 4 is subtracted from a square of a number, the result is 21, then the number is?

- a. 3 b. 4 c. 5 d. 6

38. What is the radius of the circle of $x^2 + y^2 - 4x - 6y - 12=0$?

- a. 3 b. 4 c. 5 d. 6

39. If $f:R \rightarrow R$ and $g:R \rightarrow R$ defined by $f(x)=2x+5$ & $g(x)=3x+9$ then $g \circ f$ is which of the following?

- a. $9x-6$ b. $2x+8$ c. $7x+12$ d. $6x+24$

40. If $f:R \rightarrow R$ and $g:R \rightarrow R$ defined by $f(x)=2x+5$ & $g(x)=3x+9$ then $g \circ f$ is which of the following?

- a. b. c. d.

-Section C– IQ

1. In January, the value of a stock increased by 25%, and in February, it decreased by 20%. How did the value of the stock at the end of February compare with its value at the beginning of January?
 - a. It was less
 - b. It was the same
 - c. It was 5% greater
 - d. It was more than 5% greater

2. What is the 100th letter of the series ABBCCCDDDD ---?
 - a. I
 - b. J
 - c. K
 - d. N

3. After covering Five-eighth of my Journey, I find that I have travelled 60 km. How much Journey is left?
 - a. 40
 - b. 80
 - c. 36
 - d. 27

4. If today is Saturday, what day will it be in 500 days?
 - a. Friday
 - b. Saturday
 - c. Sunday
 - d. Tuesday

5. How many integers are there between 100 and 1000 all of whose digits are odd?
 - a. 90
 - b. 100
 - c. 125
 - d. 150

6. Hari, Kiran and Ganesh have a total of Rs. 390. Hari has 5 times as much as Ganesh, and Kiran has $\frac{3}{4}$ as much as Hari. How much money does Kiran have?
 - a. 40
 - b. 78
 - c. 150
 - d. 200

7. If BIRD is written as 2-9-18-4, then how is CROW written in that code?
 - a. 3-17-26-22
 - b. 3-18-15-23
 - c. 3-19-16-24
 - d. 3-18-16-23

8. Rima ranks ninth from the top and thirty eighth from the bottom in a class. How many students are there in the class?
 - a. 46
 - b. 47
 - c. 48
 - d. 49

9. Tanya is older than Eric.
Cliff is older than Tanya.

Eric is older than Cliff.

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

- a. True b. False c. Invalid question d. Uncertain

10. If BUTWAL is coded UWLUWL, TANSEN is coded as ASNASN, then how is POKHARA written in that code?

- a. OHRPKAA b. OHAOHA c. PAKHOR d. KAPKAP

11. It takes Martin $\frac{1}{2}$ hour to get washed and changed before school. It takes him $\frac{1}{4}$ of an hour to go downstairs and eat breakfast. It takes him 1 and $\frac{1}{4}$ hours on the bus to school. How much time does it take Martin to get ready and get to school?

- a. 2 hours
b. $1\frac{1}{2}$ hours
c. $2\frac{1}{2}$ hours
d. $1\frac{3}{4}$ hours

12. Which number should replace the question mark in the following sequence? 2, 6, 12, 20, ?

- a. 30 b. 28 c. 26 d. 32

13. In a certain code, 'CAT' is written as '3120'. How is 'DOG' written in that code?

- a. 4157 b. 4175 c. 4517 d. 4571

14. All roses are flowers. Some flowers are red. Therefore, some roses are red. This conclusion is:

- a. True
b. False
c. Uncertain
d. Cannot be determined

15. Which of the following is not a primary color in the RGB color model?

- a. Red b. Green c. Blue d. Yellow

16. A cube has all its faces painted red. If it is then cut into 27 smaller cubes of equal size, how many of these smaller cubes will have exactly two faces painted?

- a. 0 b. 8 c. 12 d. 24

17. Which of the following phenomena is responsible for the reddish appearance of the Sun at sunrise and sunset?

- a. Reflection of light

- b. Refraction of light
- c. Diffraction of light
- d. Scattering of light

18. Which of the following protocols is used to securely browse a website?

- a. HTTP
- b. FTP
- c. HTTPS
- d. SMTP

19. Which device is used to connect multiple computers within a local area network (LAN)?

- a. Router
- b. Modem
- c. Switch
- d. Firewall

20. Which of the following is an IP address?

- a. 192.168.0.1
- b. www.example.com
- c. 08:00:27:00:9F:68
- d. FTP

Answers

English

1. A	2. D	3. B	4. B	5. C	6. B	7. C	8. B	9. C	10. A
11. D	12. A	13. B	14. C	15. B	16. B	17. C	18. B	19. a	20. C
21. A	22. A	23. C	24. C	25. B	26. B	27. B	28. C	29. D	30. B
31. C	32. A	33. B	34. C	35. B	36. A	37. C	38. A	39. A	40. B

Mathematics

1. B	2. B	3. C	4. A	5. A	6. D	7. D	8. D	9. B	10. B
11. A	12. C	13. A	14. D	15. D	16. C	17. A	18. A	19. B	20. D
21. B	22. B	23. C	24. C	25. B	26. B	27. A	28. B	29. A	30. B
31. D	32. C	33. B	34. B	35. A	36. B	37. A	38. A	39. D	40. A

IQ

1. A	2. B	3. A	4. C	5. A	6. B	7. B	8. C	9. B	10. A
11. A	12. B	13. C	14. D	15. C	16. A	17. C	18. C	19. C	20. C