



Admission Tech

East West

Question Summer 2019



Section 1: English Grammar

(10 questions, 10 Marks)

Section 1 English

Choose the best option:

1. Six years before, she left her family and city to become a musician.
A. Before B. Since C. From D. Ago E. Over
2. I not only emailed him to get in touch with you, as well as left him three messages.
A. As well as B. As well C. Also D. But also E. And also
3. When you come to Germany last year?
A. You come B. You came C. You are coming
D. Did you come E. Have you come
4. I am sorry, I do not know where does she lives.
A. Where does she lives B. How does she live C. Where does she live
D. Where she lives E. Where she live
5. I live in Japan from 1990.
A. From B. Since C. By D. At E. on
6. The children are screaming in the top of their voices.
A. The children are screaming in the top of their voices.
B. The children are screaming on the top of their voices.
C. The children are screaming with the top of their voices.
D. The children are screaming at the top of their voices.
E. The children are screaming using the top of their voices.
7. I warned you before you went away.
A. I warned you before you went away. B. I warned you before you left.
C. I had warned you before you left. D. I have warned you before you had gone.
E. I have warned you before you're going away.
8. He did not expect this.
A. He did not expect this. B. He had not been expecting this. C. He never expects this.
D. He has never expected this. E. He never did expect this.
9. Tears flowed heavily on her cheeks.
A. Tears flowed heavily on her cheeks. B. Tears flowed heavily from her cheeks.
C. Tears flowed heavily over her cheeks. D. Tears flowed heavily to her cheeks.
E. Tears flowed heavily down her cheeks.
10. The child is missing.
A. The child is missing. B. The child has been missing. C. The child has missed.
D. The child is missed. E. The child was being missing.
11. She retired from her post.
A. She retired from her post. B. She has retired from her post.
C. She was retiring from her post. D. She has retired at her post.
E. She is retiring at her post.
12. Are you fully recovering?
A. Are you fully recovering? B. Are you fully recovery? C. Are you fully recovered?
D. Are you a fully recover? E. Did you get a fully recovered?





13. She was driving us crazy.
A. She was driving us crazy B. has driven us crazy C. She was driven us crazy
D. She drove to us crazy E. She was driving crazy
14. Her idea is excited.
A. Her idea is excited. B. Her idea has been excited.
C. Her idea has been exciting. C. Her idea is exciting.
E. Her idea will be excited.
15. She is exciting to be a part of her show.
A. She is exciting to be a part of her favourite show.
B. She has been excited to be a part of her favourite show.
C. She was exciting to be a part of her favourite show.
D. She was excited to be a part of her favourite show
E. She has been excited to be a part of her favourite show.
16. Predictions twenty years ago that the phonograph record was about to become obsolete have proven to be true.
A. Predictions twenty years ago that B. Predictions twenty years ago,
C. Twenty years ago, predictions that D. Predictions, twenty years ago
E. None of these
17. Knocked to his knees, the quarterback looked as if he were in pain.
A. Knocked to his knees, the quarterback looked
B. The quarterback was knocked to his knees, looked
C. The quarterback looked knocked to his knees
D. The quarterback, looking knocked to his knees,
E. None of the above
18. When you move out of an apartment before the contract expires, this is an example of breaking a lease.
A. When you move out of an apartment before the contract expires, this
B. You move out of an apartment before the contract expires, this
C. Moving out of an apartment before the contract expires
D. The fact that you move out of an apartment before the contract expires
E. None of the above.
19. Yesterday the President announced that he would retire from political life, to amazed reporters.
A. Yesterday the President announced that he would retire from political life, to amazed reporters.
B. Yesterday the President announced that he would retire from political life, amazing reporters.
C. The President, to the amazement of reporters, announced that he would retire from political life yesterday.
D. Yesterday the President announced to amazed reporters that he would retire from political life.
E. None of the above





20. The baby was obviously getting too hot, then Sam did what he could to cool her.
- A. hot, then Sam did
 - B. Hot. Sam did
 - C. hot; Sam, therefore, did
 - D. hot; Sam, trying to do
 - E. None of these

Answer the following questions based on the passage:

The Battle of Chancellorsville, one of the most famous battles of the Civil War, took place in Virginia in the spring of 1863. For months, the two armies had been staked out on opposite banks of a narrow river. The Confederate troops were led by perhaps the most revered military tactician in American history, General Robert E. Lee. The Union soldiers were led by "Fighting" Joe Hooker. In appearance, personality, and lifestyle, these men were nearly perfect opposites. Lee, an older man in poor health with a gray beard, had a somber, measured demeanor. Hooker was a blond, strapping young man whose vanity over his appearance was but one aspect of his egotism. Whereas Lee was devout and principled, Hooker was known for his rollicking enjoyment of both women and whiskey. Despite the fact that the Confederacy had won the last four major battles and the Union soldiers were famished, exhausted, and demoralized, Hooker proclaimed, "My plans are perfect. And when I start to carry them out, may God have mercy on Bobby Lee, for I shall have none." Why, aside from a propensity for narcissism, was Hooker so confident? Hooker had used spies, analysts, and even hot air balloons to compile a vast amount of intelligence about Lee's army. He had discerned, for example, that Lee had only 61,000 men to Hooker's own 134,000. Buoyed by his superior numbers, Hooker covertly moved 70,000 of his men fifteen miles up and across the river, and then ordered them to sneak back down to position themselves behind Lee's army. In effect, Hooker had cut off the Confederate soldiers in front and behind. They were trapped. Satisfied with his advantage, Hooker became convinced that Lee's only option was to retreat to Richmond, thus assuring a Union victory. Yet Lee, despite his disadvantages of both numbers and position, did not retreat. Instead, he moved his troops into position to attack. Union soldiers who tried to warn Hooker that Lee was on the offensive were dismissed as cowards. Having become convinced that Lee had no choice but to retreat, Hooker began to ignore reality. When Lee's army attacked the Union soldiers at 5:00 p.m., they were eating supper, completely unprepared for battle. They abandoned their rifles and fled as Lee's troops came shrieking out of the brush, bayonets drawn. Against all odds, Lee won the Battle of Chancellorsville, and Hooker's forces withdrew in defeat.

21. Based on information in the passage, it can be concluded that Hooker lost the Battle of Chancellorsville mostly because of his
- A. Vanity
 - B. Ignorance
 - C. Overconfidence
 - D. Faulty information
 - E. Vices
22. The contrast drawn between Lee and Hooker in paragraph 2 is intended to
- A. showcase the different backgrounds and personal histories of these two enemy soldiers
 - B. provide support for the idea that Lee was a more virtuous person than Hooker, and therefore a better military commander
 - C. prove that two men with very different values could end up in similar positions of power
 - D. suggest that if Hooker had been more devout and principled, he might not have been outwitted by Lee
 - E. imply that these men fundamentally differed in their approaches to nearly everything, including battle





23. In paragraph 3, the author quotes Hooker as saying, "My plans are perfect. And when I start to carry them out, may God have mercy on Bobby Lee, for I shall have none." The author most likely includes this quote in order to
- A. demonstrate Hooker's belief in his own infallibility
 - B. provide an example of the way language has changed since 1863
 - C. reveal that Hooker was a deeply religious man in spite of his lifestyle
 - D. foreshadow Hooker's defeat at the hands of Lee's army
 - E. portray Hooker as a merciless general who was compelled by his hatred of Lee
24. Based on its use in paragraph 3, it can be inferred that the word propensity belongs to which of the following word groups?
- A. fondness, partiality, affection
 - B. flaw, fault, shortcoming
 - C. distaste, aversion, dissatisfaction
 - D. tendency, inclination, predisposition
 - E. confidence, self-assurance, certitude
25. How many men did Hooker position behind Lee's army?
- A. 61,000
 - B. 70,000
 - C. 73,000
 - D. 134,000
 - E. 158,000
26. As used in paragraph 4, buoyed most nearly means
- A. Strengthened
 - B. Anchored
 - C. Floated
 - D. Sharpened
 - E. Heartened
 - F.
27. According to the author, Hooker's advantages going into the Battle of Chancellorsville included
- I. numbers
 - II. position
 - III. strategy
- A. I only
 - B. II only
 - C. I and II only
 - D. II and III only
 - E. I, II and III
28. If this passage were to continue, which of the following would most likely be the first sentence of the next paragraph?
- A. His army routed, Hooker and his reduced forces hobbled south, back to the center of Confederate operations where he was harshly rebuked for having squandered his vast army.
 - B. In all his days of fighting, Hooker had never been met with such surprise and opposition; he took to solemn contemplation of the events that had transpired as well as the lessons he might learn from them.
 - C. Wounded in both body and spirit, Hooker and his severely diminished forces retreated to higher ground where they proceeded to reload their weapons and prepare for a counter attack.
 - D. Upon returning to camp, the triumphant Lee immediately ordered for supplies to be brought up and provisions made for a raucous victory celebration.
 - E. Not one to gloat over his success, Lee remarked that the victory had been the product of valiant fighting and good luck, as he began to map out strategies for their next move.





Answer the following questions based on the passage:

Concussions are brain injuries that occur when a person receives a blow to the head, face, or neck. Although most people who suffer a concussion experience initial bouts of dizziness, nausea, and drowsiness, these symptoms often disappear after a few days. The long-term effects of concussions, however, are less understood and far more severe. Recent studies suggest that people who suffer multiple concussions are at a significant risk for developing chronic traumatic encephalopathy (CTE), a degenerative brain disorder that causes a variety of dangerous mental and emotional problems to arise weeks, months, or even years after the initial injury. These psychological problems can include depression, anxiety, memory loss, inability to concentrate, and aggression. In extreme cases, people suffering from CTE have even committed suicide or homicide. The majority of people who develop these issues are athletes who participate in popular high-impact sports, especially football. Although both new sports regulations and improvements in helmet technology can help protect players, the sports media and fans alike bear some of the responsibility for reducing the incidence of these devastating injuries. Improvements in diagnostic technology have provided substantial evidence to link severe—and often fatal—psychological disorders to the head injuries players receive while on the field. Recent autopsies performed on the brains of football players who have committed suicide have shown advanced cases of CTE in every single victim. In response to the growing understanding of this danger, the National Football League (NFL) has revised its safety regulations. Players who have suffered a head injury on the field must undergo a "concussion sideline assessment"—a series of mental and physical fitness tests—before being allowed back in the game. In an effort to diminish the amount of head and neck injuries on the field, NFL officials have begun enforcing stricter penalty calls for helmet-to-helmet contact, leading with the head, and hitting a defenseless player. Furthermore, as of 2010, if a player's helmet is accidentally wrenched from his head during play, the ball is immediately whistled dead. There is hope that these new regulations, coupled with advances in helmet design, will reduce the number of concussions player endure, and thus curb the number of CTE cases. Efforts by the NFL and other professional sports leagues are certainly laudable; indeed, we should commend every attempt to protect the mental and physical health of players. However, new regulations at the professional level cannot protect amateur players, especially young people. Fatal cases of CTE have been reported in victims as young as 21. With appropriate equipment and form, tackling need not be dangerous. Proper tackling form—using the arms and shoulders to aim for a player's midsection rather than leading with the top of the head—should be taught at an early age. Youth, high school, and college leagues should also adopt safety rules even more stringent than the NFL's. Furthermore, at an early age, athletes should be educated about the serious dangers of head injuries. Perhaps the most important factor in reducing the number of traumatic brain injuries, however, lies not with the players, the coaches, or the administrators, but with the media and fans. Sports media producers have become accustomed to showcasing the most aggressive tackles and the most intense plays. NFL broadcasts often replay especially violent collisions, while the commentators marvel at the physical prowess of the players involved. Some sports programs even feature weekly countdowns of the hardest hits. When the media exalts such hazardous behavior, professionals are rewarded for injuring each other on the field, and amateurs become more likely to try to imitate their favorite NFL athletes. Announcers, commentators, television producers, and sportswriters should engage in a collective effort to cease glorifying brutal plays. In turn, fans should stop expecting their favorite players to put their lives on the line for the purposes of entertainment. Players must





stop being encouraged to trade their careers, health, happiness, and their lives for the sake of a game.

29. The author apparently believes that
- A. NFL officials have not thoroughly implemented stricter safety regulations
 - B. doctors need to do more research about the potential long-term effects of CTE
 - C. amateur athletes suffer more serious long-term effects of CTE than professional athletes
 - D. fans share some of the blame for athletes' injuries
 - E. young people should not be encouraged to play football due to CTE risks
30. According to the author, each of the following statements are true EXCEPT which one?
- A. Tackling itself is not dangerous; however, players who use improper tackling form may suffer injury.
 - B. Scientists have established a link between players who shoot themselves and others and the onset of CTE.
 - C. NFL officials have done nothing to address the problem of CTE.
 - D. Athletes who are praised for exceptionally brutal hits are likely to continue engaging in such dangerous behavior.
 - E. Sports programs showcase exceptionally hard hits.
31. According to the author, which of the following contribute(s) to an increase in incidences of CTE in amateur players?
- I. fewer safety regulations than professional players
 - II. a lack of education geared to youth players about the dangers of head injuries
 - III. a desire to emulate professionals
- A. I only B. II only C. I and II only D. II and III only E. I, II and III
32. As used in paragraph 4, which is the best synonym for laudable?
- A. Praiseworthy B. Ineffective C. Determined D. Blameworthy E. satisfactory
33. The author's tone in the final paragraph can best be described as
- A. Apologetic B. Depressed C. Confused D. Solemn E. hopeless
34. As used in the final paragraph, which is the best antonym for exalts?
- A. Ignores B. Misrepresents C. Praises D. Reports E. criticizes
35. In the final paragraph, the author writes, "Players must stop being encouraged to trade their careers, health, happiness, and their lives for the sake of a game." Which of the following literary devices is used in this quotation?
- A. Irony, characterized by the expression of something which is contrary to the intended meaning.
 - B. Climax, characterized by the arrangement of words, phrases, or causes in an order of ascending power.
 - C. Litotes, characterized by the expression of understatement used for intensification of a rhetorical purpose.
 - D. Hyperbole, characterized by the use of exaggeration for emphasis or rhetorical effect.
 - E. Apostrophe, characterized by a sudden turn from addressing the general audience to addressing a specific person, group, or personified abstraction.





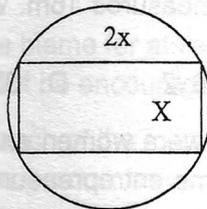
Section 2: Mathematics

01. A man purchased equal number of bananas at two different rates- one at the rate of 8 taka per dozen and the other at the rate of 10 taka per dozen. After that, he sold those bananas at an average rate of 11 taka per dozen and thus made a profit of 100 taka. How many dozens of banana did he purchase altogether?
A. 60 B. 50 C. 55 D. 45 E. 40
02. The longest side of an isosceles right triangle measures 16m. What is the perimeter of the triangle?
A. $32+2\sqrt{2}$ B. $32+16\sqrt{2}$ C. $16+16\sqrt{2}$ D. $32+2\sqrt{2}$ E. $48\sqrt{2}$
03. Of the 400 students in a business school, 30% were women and of these $\frac{1}{5}$ th became entrepreneurs. If the number of men who became entrepreneurs was twice the number of women entrepreneurs, how many men became entrepreneurs?
A. 24 B. 48 C. 120 D. 280 E. None
04. If a, b and c are 3 consecutive integers in that order, which of the following has the lowest value?
A. $(a+b)/c$ B. $(b+c)/a$ C. $(a+b)/b$ D. $(c+b)/a$ E. None
05. In a regular pentagon ABCDE, what is angle BCE?
A. 72 B. 108 C. 54 D. 36 E. 180
06. The ratio of labor cost and materials cost for making a radio is 2:7. If the cost price is 90% of the selling price which is Tk. X, what is the labor cost per radio?
A. 0.1x B. 0.2x C. 0.3x D. 0.4x E. 0.5x
07. A man on tour travels first 160 km at 64 km/hr and the next 160 km at 80 km/hr. The average speed for the first 320 km of the tour is:
A. 75.2 B. 71.1 C. 70 D. 75 E. 80
08. A can do a work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is:
A. $\frac{7}{15}$ B. $\frac{8}{15}$ C. $\frac{4}{15}$ D. $\frac{7}{20}$ E. $\frac{4}{5}$
09. If y% of x is 29. Then x =?
A. 2900 B. $29x/y$ C. $29y/x$ D. 29xy E. None
10. The average age of a man and his son is 20. After 10 years, their age will be in the ratio 2:1. What was the age of the man and his son 5 years ago respectively?
A. 15,5 B. 25,15 C. 25,5 D. 15,10 E. None
11. 40% of students in a class are smart. The rest are stupid. Half the students play sports and half don't. If 20% of the students are smart and play sports, what percent of the students are stupid and don't play sports?
A. 30 B. 40 C. 50 D. 60 E. None
12. Lamisa's age is 5 years more than twice Galib's age. Zihan's age is 13 years less than 10 times Galib's age. If Zihan is 3 times as old as Lamisa, how old is Lamisa?
A. 7 B. 9 C. 21 D. 16 E. 20 F. 24





13. A nut mixture consists of peanuts, pistachios, and macadamia nuts in the ratio 5:3:2, respectively, by weight. What amount of pistachios will be in 40 pounds of the mixture?
A. 8 B. 12 C. 16 D. 20 E. 24
14. If the area of a circle is 49π , what is the perimeter of one quadrant of the circle?
A. 14 B. 14π C. $14\pi+14$ D. $7\pi/2+14$ E. $7\pi/2$
15. In the figure above area of the inscribed rectangle is 32. The circumference of the circle is-



- A. 20π B. $4\pi\sqrt{5}$ C. $4\pi\sqrt{3}$ D. $2\pi\sqrt{5}$ E. $2\pi\sqrt{3}$
16. If 12 men can reap 120 acres of land in 36 days, how many acres of land can 54 men reap in 54 days?
A. 810 B. 900 C. 720 D. 600 E. 650
17. A certain recipe calls for 3kgs of sugar for every 6 kgs of flour. If 60kgs of this sweet has to be prepared, how much sugar is required?
A. 30 B. 20 C. 40 D. 15 E. None
18. If $x/y < 0$, which of the following must be true?
A. $X < 0$ B. $Y < 0$ C. $XY < 0$ D. $X > 0$ E. None
19. The cost of manufacturing X units of products is $(9000 + 400X)$. The amount received when selling these X units of products is $500X$. What is the least number of products that must be sold to break-even?
A. 10 B. 18 C. 45 D. 90 E. None
20. At Veridux Corporation, there are 250 employees. Of these, 90 are female, and the rest are males. There are a total of 40 managers, and the rest of the employees are associates. If there are a total of 135 male associates, how many female managers are there?
A. 15 B. 20 C. 25 D. 30 E. 35
21. A competitor runs 200 meters race in 24 seconds. His rate is:
A. 30 km/h B. 20km/h C. 25 km/h D. 36 km/h E. 40 km/h
22. The salaries of A, B, and C are in the ratio of 1 : 2 : 3. The salary of B and C together is Rs. 6000. By what percent is the salary of C more than that of A?
A. 100 B. 50 C. 200 D. 150 E. 300
23. A scientist needs a 10% saline solution for an experiment. In his closet he finds a 20 ounce bottle of 25% saline solution. How many ounces of pure water should he add to the mixture to produce the correct saline solution?
A. 30 B. 20 C. 15 D. 35 E. 25
24. Two integers are x and y. Their HCF is a. What is their LCM?
A. $Xy+a$ B. Axy C. Xy/a D. Can't be determined E. None





25. What is the average of all the numbers 1 to 81?
A. 36 B. 38 C. 39 D. 40 E. None
26. How many of the integers between 110 and 120 are prime numbers?
(A) 0 (B) 1 (C) 2 (D) 3 (E) 4
27. If the product of 3 consecutive integers is 120, then the sum of the integers is
(A) 9 (B) 12 (C) 14 (D) 15 (E) 18
28. If $y/3$, $y/4$ and $y/7$ represent integers, then y can be
(A) 42 (B) 56 (C) 70 (D) 84 (E) 126
29. X CDs can be purchased for Tk. y . How many CDs can be purchased with Tk. Z
A. Xz/y B. Xyz C. y/xz D. $(x+z)/y$ E. None
30. Of the 80 houses in a development, 50 have a two-car garage, 40 have an in-the-ground swimming pool, and 35 have both a two-car garage and an in-the-ground swimming pool. How many houses in the development have neither a two-car garage nor an in-the-ground swimming pool?
A. 10 B. 15 C. 20 D. 25 E. 30
31. If 5 years ago, Jamil was half as old as he is now, how old will he be in x years?
A. $X+10$ B. $X+5$ C. $X+2$ D. $X-5$ E. $2x$
32. Two hours after train A has started its journey, train B started from the same point to the same direction at a speed of 18 km/h. If the speed of train A is 9 km/h then how many hours would it take for train B to catch the first train?
A. 5 B. 4 C. 3 D. 2 E. 1
33. A cube has a volume of 64 cubic inches. What is the length of the two most distant vertices?
A. $4\sqrt{3}$ B. 4 C. 5 D. $5\sqrt{2}$ E. $4\sqrt{2}$
34. The average weight of 10 men increases by 1.5kg when one man of 45kg is replaced by a different man. Then weight of this different man is:
A. 50 B. 55 C. 60 D. 65 E. None
35. A woman was thirty years old when her daughter was born. Her age is now 6 years more than three times her daughter's age. How old will be the daughter in 5 years?
A. 19 B. 18 C. 17 D. 15 E. None
36. The ratio of boys and girls in a school is 9:5. If the total number of students in the school is 1050. Then number of boys is:
A. 600 B. 650 C. 675 D. 700 E. 500
37. If $x = 3$ and $y = 1/6$ then what is x in terms of y ?
A. $2y$ B. $y/2$ C. $20y/3$ D. $18y$ E. None
38. Akib earns Tk. 5 for every hour he works in Purpletob. Last week he worked x hours. He then purchased y kg of rice which costs Tk. 12/kg. He saved the remaining amount. What is his saving?
A. $5x+12y$ B. $5x-12y$ C. $5(x-y)$ D. $7xy$ E. f





39. 50 students from BBA 24th took an exam. There were 4 A's, 9 B's, 15 C's, 8 D's, and the rest of the students failed. What percent of the students failed?
A. 12 B. 14 C. 28 D. 36 E. f
40. In Mommy's Kitchen, the profit percentage is 80% of the cost. If the cost further increases by 20% but the selling price remains the same, how much is the decrease in profit percentage?
A. 10 B. 30 C. 40 D. 50 E. None

Answer Sheet

English:

01. D	02. D	03. D	04. D	05. B
06. D	07. C	08. A	09. E	10. A
11. A	12. C	13. A	14. D	15. D
16. A	17. A	18. C	19. D	20. B
21. C	22. B	23. A	24. A	25. B
26. A	27. D	28. E	29. D	30. C
31. D	32. A	33. D	34. A	35. B

Mathematics:

01. B	02. C	03. B	04. A	05. D
06. B	07. B	08. B	09. E	10. C
11. A	12. C	13. B	14. D	15. B
16. A	17. B	18. C	19. D	20. A
21. A	22. C	23. A	24. C	25. E
26. B	27. D	28. D	29. A	30. D
31. B	32. D	33. A	34. C	35. C
36. C	37. D	38. B	39. C	40. B

Solution:

English:

- (D) Action টি অতীতে হয়েছে, so use "ago"
- (D) Not only – but also pair টি ব্যবহার করা হয়েছে।
- (D) Question form টির জন্য auxiliary verb দরকার।
- (D) Embedded question form এ auxiliary verb দরকার নেই।
- (B) When year is stated, use since.
- (D) screaming at top of their voice used as a proverb
- (C) এই sentence এ অতীত এ ঘটে যাওয়া দুইটি actions এর কথা বলা হয়েছে,. So, we use past perfective.
- (A) Sentence in past. No perfective needed.
- (E) Tears flow downwards along the cheeks.
- (A) Present used to show she is still missing.
- (A) Past used to indicate action already completed.

