

## Admission Test 2017 – 2018

1. “ঢাকের বায়া” বাঙ্কারাটির অর্থ কি?  
a) বিরক্তিকর ব্যক্তি      b) কপট ব্যক্তি      c) মূল্যহীন বস্তু      d) তোষামুদে
2. “আশীবিষ” - কোন সমাস?  
a) বহুব্রিহী      b) তৎপুরুষ      c) অব্যয়ীভাভ      d) কর্মধারায়
3. “দুর্যোগে হাল ঠিকমত রাখা ভার/ ক্ষত বিক্ষত হয় সহশ্র প্রাণ।” কোন কবিতার অংশ?  
a) ঐক্যতান      b) সাম্যবাদী      c) আঠারো বছর বয়স      d) পাঞ্জেরি
4. “Successor” এর পরিভাষা কি?  
a) উত্তরাধিকারী      b) সফল      c) মহাজন      d) অগ্রবর্তী
5. “অম্বু” শব্দের অর্থ কি?  
a) পান      b) নাক      c) জল      d) হাত
6. Two motorists start from same point at the same time and travel in opposite directions. One motorist travel 15 mph faster than the other one. In 5 hours they were 550 miles apart. Find the rate of speed of each motorist.  
a) 47.5 and 62.5 mph      b) 45.5 & 60.5 mph      c) 45 & 60 mph      d) 55 and 70 mph
7. A women invested an amount of money at 5% & twice as much as at 7%. If the total yearly interest from the two investment is \$760, how was invested at each rate?  
a) 3500 & 7000      b) 4500 & 9000      c) 4000 & 8000      d) 4250 & 8500

Let  $x$  = amount invested at 5%

$2x$  = amount invested at 7%

Total interest =

$$.05x + .07(2x) = 760$$

$$.05x + .14x = 760$$

$$.19x = 760$$

$$.19x / .19 = 760 / .19$$

$$x = \$4000 \text{ at } 5\%$$

$$2x = \$8000 \text{ at } 7\%$$

Ans is C

8. The sum of three consecutive odd integer is always divisible by -  
a) 2      b) 3      c) 4      d) 9

Three consecutive odd numbers can be expressed as  $2a-1$ ,  $2a+1$  and  $2a+3$ .

Their sum is  $6a+3=3(2a+1)$ .

Hence, sum of 3 consecutive odd numbers is always divisible by 3.

Ans is B

Dream's

9. All of the following number may be written as the sum of two prime number except one-  
 a) 8                      b) 12                      c) 23                      d) 24
10. Find the sum of all number between 1 and 200 that is divisible by 4  
 a) 4900                      b) 5100                      c) 5170                      d) 5178
11. If  $f(x) = x^2 - 2x + 4$ , what is  $f(i)$  where  $i = \sqrt{-1}$   
 a)  $2-3i$                       b)  $3-2i$  c)  $2i-3$  d)  $3-4i$
12. A computer is programmed to add 3 to the number N, multiply the result by 3, subtract 3 and divide this result by 3. The computer answer will be-  
 a)  $N+1$                       b)  $N-2$                       c)  $N$                       d)  $N+2$

A number 3 is added to N, we get  $N+3$   
 Now it is multiplied by 3, we get  $3(N+3)=3N+9$   
 Now the result is subtracted with 3, we get  $3N+9-3=3N+6$   
 Now the result is divided by 3, we get ,  
 $(3N+6)/3 = N+2$   
 Ans is D

13. How many degrees between the hands of clock at 3:40?  
 a)  $150^\circ$                       b)  $135^\circ$                       c)  $130^\circ$                       d)  $145^\circ$
14. The value of computer depreciated over five years of tax purpose (meaning that at the end of five years, the computer worth of \$0). If a business paid \$2100 for the computer, how much will have depreciated after two years?  
 a) \$840                      b) \$1050                      c) \$820                      d) \$420
15. The numerator of a fraction is 4 and the denominator is 3. Which of the following statement is correct?  
 a) The value of the fraction is less than 1  
 b) The value of the fraction is greater than 1  
 c) The value of the fraction is less than 0  
 d) The value of the fraction is greater than 2
16. Nick paid \$68.25 for a cost, including sales tax of 5%. What is the original price before tax?  
 a) \$63.25                      b) \$65.25                      c) \$65.00                      d) \$64.83

To find the original price we have to take 5% out of the total; \$68.25. first find 5% of 68.25  
 $0.05 \times 68.25 = 3.4125$   
 take the 5% (3.4125) out of 68.25  
 $68.25 - 3.4125 = 64.83$   
 Ans is D

17. Charlie receive x dollar each hour she spent babysitting. She babysat a total hour of h hours. She then gave half of the money to a friend who had stopped by to help her. How much money did Charlie have after she had paid her friend?

Dream's

- a)  $\frac{xh}{2}$       b)  $\frac{x}{2} + h$       c)  $\frac{h}{2} + x$       d)  $2hx$

18. Sally gets paid  $x$  dollar per hour for a 40-hour work week and  $y$  dollar for each hour she works over 40 hours. How much did sally earn for 48 hours?

- a)  $48xy$       b)  $40y+8x$       c)  $40x+8y$       d)  $48x+48y$

If  $x$  is paid per hour for the first 40 hours and  $y$  per hour for hours thereafter, then  
 For 48 hours, we have  $40x$  for the first 40 hours  $8y$  for the remaining 8 hours  
 Adding them gives  $40x+8y$   
 Ans is C

19. The area of a circle is  $36\pi$ . If the half of the circumference is  $k\pi$ , what is the value of  $k$ ?

- a) 3      b) 6      c) 12      d) 18

Area of a circle =  $36\pi = \pi r^2 = \pi 6^2$   
 Circumference =  $2\pi r = 2\pi 6 = 12\pi$   
 Half of the circumference =  $12\pi/2 = 6\pi = K\pi$   
 Therefore,  $K=6$   
 Ans is B

20. What is the ratio of  $3/7$  to the product  $3 \times \frac{7}{3}$ ?

- a) 3:7      b) 3:49      c) 3:21      d) 1:3

21. In a class 68% students enrolled for math and 82% enrolled for economics. If 55% of the students enrolled for both math and economics. What % of the students didn't enrolled either courses?

- a) 5%      b) 20%      c) 15%      d) 18%

$68-55=13$ ,  $82-55=27$ ,  $55$ ,  $(100-55-27-13=5)$

22. Five is added to the quantity three minus the sum of negative eight and six. This answer is then multiplied by three. What is the result?

- a) 18      b) -21      c) 21      d) 30

$(5+(3-(-8+6))) = 10$ ,  $10*3=30$

23. The distance from the earth to the moon is approximately 240000 miles. What is this distance expressed in scientific notation?

- a)  $2.4 \times 10^5$       b)  $24 \times 10^4$       c)  $240 \times 10^3$       d)  $2.4 \times 10^{-5}$

$240000 \text{ miles} = 2.4 \times 10^5$

24. A rectangular garden has width of 20 feet and a length of 24 feet. If each side of the garden is increased by the same amount, how many feet is the new length if the new area is increased by 141 square feet?

- a) 23      b) 24      c) 26      d) 27

25. If the area of a small pizza is  $78.5 \text{ in}^2$ , what size of pizza box would best fit the small pizza. (Note: pizza boxes are measured according to the length of one side)  
 a) 12 in                      b) 11 in                      c) 9 in                      d) 10 in
26. Two trains are running in opposite direction at the same speed. The length of each train is 120 meter. If they cross each other in 12 seconds, the speed of each train (km/hr) is:  
 a) 42                      b) 36                      c) 28                      d) 20

Let the speed of each train be  $x \text{ m/sec}$ .  
 Relative speed of the train  $= 2x \text{ m/sec}$ .  
 So  $2x = (120+120)/12$   
 $\Rightarrow 2x = 240/12$   
 $x = 20/2 = 10$   
 Speed of each train  $= (10 \times 18/5) \text{ km/hr} = 36 \text{ km/hr}$ .  
 Ans is B

27. If  $3^{(n+4)} - 3^{(n+2)} = 8$ , value of  $n$ ?  
 a) 0                      b) 1                      c) -2                      d) 2

$3^{(n+4)} - 3^{(n+2)} = 8$   
 $3^n \cdot 3^4 - 3^n \cdot 3^2 = 8$   
 $3^n \cdot 3^2(3^2 - 1) = 8$   
 $3^{(n+2)} \cdot (9 - 1) = 8$   
 $3^{(n+2)} \cdot 8 = 8$   
 $3^{(n+2)} = 1$   
 $3^{(n+2)} = 3^0$   
 or  $(n+2) = 0$   
 or  $n = -2$ , Answer.

28. The price of three tables and 4 chairs is Tk 3300. With the same money one can buy 2 tables and 10 chairs. If one wants to buy 1 table and 1 chair, how much money s/he needs to pay?  
 a) Tk 940                      b) Tk 1050                      c) Tk 1040                      d) Tk 950

3 tables + 4 chairs  $\equiv$  2 tables + 10 chairs  
 $\Rightarrow$  1 table  $\equiv$  6 chairs  
 3 tables + 4 chairs = 3300  
 $\Rightarrow$  3 (6 chairs) + 4 chairs = 3300  
 $\Rightarrow$  22 chairs = 3300  
 $\Rightarrow$  1 chair = 150  
 1 table + 1 chair  $\equiv$  6 chairs + 1 chair = 7 chairs =  $7 \times 150 = 1050$   
 Ans is B

29. John draws a card from a pack of cards. What is the possibilities that the card draw is a card of black suit?  
 a)  $\frac{1}{2}$                       b)  $\frac{1}{4}$                       c)  $\frac{1}{3}$                       d)  $\frac{1}{13}$

Total number of cards,  $n(S) = 52$   
 Total number of black cards,  $n(E) = 26$   
 $P(E) = n(E)/n(S) = 26/52 = 1/2$

Ans is A

30. Probir bought a car and paid 10% less than the original price. He sold it to Vabna 30% profit on the price he had paid. What % of the profit did he earn on the original price?  
 a) 17%                      b) 16%                      c) 18%                      d) 14%

Let actual cost of car was 100  
 SP for Probir =  $100 - 10\% \text{ of } 100 = 100 - \frac{10}{100} \times 100 = 90$   
 SP for Vabna =  $90 + 30\% \text{ of } 90 = 90 + \frac{30}{100} \times 90 = 90 + 27 = 117$   
 Gain =  $117 - 90 = 27$   
 Gain % on actual cost price =  $\frac{27}{100} \times 100 = 27\%$   
 Ans is A

Answer the questions (31-35) on the basis of information given below:

In a school there were five teachers. A & B were teaching Bangla and English. B, C & D were teaching English and Geography. D & A were teaching Mathematics and Bangla. E & B were teaching History and French

31. Who among the teacher was teaching the maximum number of subjects?  
 a) A                      b) B                      c) C                      d) E
32. Which of the following pairs were teaching both Geography and Bangla?  
 a) A & B                      b) B & C                      c) C & A                      d) D & B
33. More than three teachers were teaching which subjects?  
 a) History                      b) English                      c) Bangla                      d) French
34. D, B & A were teaching which of the following?  
 a) Bangla only                      b) Bangla & English                      c) English only                      d) English and Geography
35. Who among the teachers teaching exactly four subjects?  
 a) B                      b) A                      c) C                      d) D
36. Turn into the direct form of speech: "Rimi said that her brother was getting married"  
 a) Rimi said, "Her brother is getting married"  
 b) Rimi told, "Her brother is getting married"  
 c) Rimi said, "My brother is getting married"  
 d) Rimi said, "My brother was getting married"

Indirect speech এ past tense থাকলে direct speech এ present tense হয়।

37. Desdemona wants to go shopping tomorrow. Underlined word is-  
 a) Noun                      b) verb                      c) adjective                      d) adverb

tomorrow হল adverb of time.

38. Identify the error: the refusal of management (a) to revise (b) their (c) policy on family leave (d) caused an uproar among the employee.

In option B, Their না হয়ে its হবে

39. "The boy was diligent, so the teacher praised him." The simple form of the sentence-
- The boy was diligence as the teacher praised him
  - Teacher praised the boy for his diligent
  - Teacher praised the boy for his diligence
  - The boy was praised by the teacher for his diligence
40. Identify the error: In the fifteenth century, Leonardo da Vince suggested that defective vision (a) can be corrected by (b) placing a lens (c) in direct contact (d) with the eye

Option A তে ভুল correct বাক্যে কারণ subjunctive এর পর that থাকলে verb I বসে।

41. Find out the mis-spelt word:
- Aniversary
  - Benefitted
  - Affidavit
  - Adulterate
42. Identify the error: A majority of the (a) students who (b) attended the job fair expressed interest in (c) becoming (d) a doctor or lawyer
43. You must atone \_\_\_\_\_ your sin
- At
  - for
  - to
  - in

Appropriate preposition এ atone এর পর for বসে।

44. Which of the following sentence is correct?
- The intruder stood quietly for few time
  - The intruder stood quietly for few moments
  - The intruder stood quietly for moments
  - The intruder stood quietly for a few moments
45. Select the correctly spelt word
- Parlament
  - parliament
  - parliamant
  - palamant
46. Which of the following sentence is correct?
- They are not aware for all the facts
  - They are not aware of all the facts
  - They are not to be aware all the facts
  - They must not to be aware for all the facts

Appropriate preposition এ aware এর পর of বসে।

47. The antonym of PRECISE is:
- INDECENT
  - VAGUE
  - INCORRECT
  - INDISTINCT
48. "The battle has been won but the war isn't over yet" the complex form of the sentence?
- Though the battle has won, the war has not been over yet
  - Though the battle has been won, the war has not over yet
  - Though the battle had won, the war isn't over yet
  - Though the battle has been won, the war isn't over yet
49. The synonym of AUGUST
- COMMON
  - RIDICULOUS
  - DIGNIFIED
  - PETTY

August মানে respected and dignified.

50. Indirect form of speech: Rimon said, "This is my book"  
 a) Rimon said that this is her book  
 b) Rimon told that this is her book  
 c) Rimon told that that was her book  
 d) Rimon told that this was her book
51. The synonym of STRINGENT is:  
 a) DRY                      b) STRAINED                      c) RIGOROUS                      d) SHRILL
52. Many companies ask their employees to sign a/an \_\_\_ of secrecy  
 a) Agreement                      b) mortgage                      c) bond                      c) treat
- গোপনীয় চুক্তি বোঝাতে Agreement of secrecy হবে
53. We asked him why he \_\_\_ telephoned earlier  
 a) Didn't                      b) hasn't                      c) hadn't                      d) wasn't
- asked simple past tense হওয়ায় এখানে didn't দরবে।
54. Complete the analogous pair: GRAIN : STOCK :: STICK :  
 a) HEAP                      b) BUNDLE                      c) COLLECTION                      d)  
 STRING
55. One day Mr. Ahmed was walking \_\_\_ a wood \_\_\_ the rain  
 a) In, through                      b) through, in                      c) under, in                      d) in, under
56. "Who is creating the mess?" passive for of the sentence?  
 a) Who has been created this mess?  
 b) By whom has this mess been created?  
 c) By whom has this mess being created?  
 d) By whom is this mess being created
57. Complete the analogous pair: FORECAST : FUTURE :: REGRET :  
 a) PRESENT                      b) ATONE                      c) PAST                      d) SINS
58. Find out the correctly spelled word  
 a) Delineate                      b) Deleneat                      c) Nileneate                      d) Deleneate
59. The antonym of REPEL is:  
 a) ATTEND                      b) CONCRETE                      c) CONTINUE                      d) ATTRACT
60. Abacus : Calculate  
 a) Patent : invent                      b) Organ : worship                      c) sextant : navigate                      d) calipers :  
 regulate
61. "You need to clean your shoes properly" passive form of the sentence:  
 a) Your shoes are needed to clean properly  
 b) You are need to clean your shoes properly  
 c) Your shoes need to be cleaned properly  
 d) Your shoes are need by you to clean properly
62. Indirect form of speech: "How cruel the boss is!" said the clerk  
 a) The clerk said that the boss was very cruel

- b) The clerk exclaimed that the boss was very cruel  
 c) The clerk told that the boss is very cruel  
 d) The clerk described that the boss was very cruel

exclamation mark indicates exclamation in this sentence. তাই exclaimed use করতে হবে।

63. Smith choked on his food because he ate so fast. The underlined word is:  
 a) Noun                      b) verb                      c) adjective                      d) adverb

choked হল verb

64. Emily has to clean her messy room before she goes out. The underlined word is:  
 a) Adjective                      b) verb                      c) noun                      d) adverb

Messy শব্দটি বিশেষণ বা adjective.

65. "I will kill you if you don't speak the truth"  
 a) Speak the truth or I will kill you  
 b) I will kill you if you do not speak the truth  
 c) I will not kill you if you speak the truth  
 d) Speak the truth, then I will not kill you

#### Contemporary issues:

66. Who won the men Wimbledon Championship 2017?  
 a) R. Federer                      b) R. Nadal                      c) N. Djokovied) A. Murray
67. How many land ports are there in Bangladesh at present?  
 a) 21                      b)22                      c) 23                      d) 24
68. The second geographical indication (GI) product of Bangladesh?  
 a) Benarasi                      b) Jamdani                      c) Hilsha                      d) Shrimp
69. At present how many Islami Banks are operating in Bangladesh?  
 a) 7                      b) 8                      c) 9                      d) 10
70. Who is the present secretary general of BIMSTEC?  
 a) Sumith Nakandra                      b) Joy Shankar                      c) Shahidul Islam                      d)Yuvraj Karki
71. Which of the following is wrong?  
 a) Parachute – Kohinur Chemical  
 b) Dettol – Reckitt Benckiser  
 c) Rexona – Unilever  
 d) Horlick – GSK
72. Which company countries is helping Bangladesh to build Rampal Power Plant?  
 a) Apple                      b) Google                      c) Microsoft                      d) Samsung
73. Which of the following countries is helping Bangladesh to build Rampal Power Plant?  
 a) China                      b) India                      c) Russia                      d) England
74. G-20 summit 2017 was hosted by?  
 a) Germany                      b) china                      c) Canada                      d) Argentina

75. Bangladeshi company listed among 50 companies that are changing the world by Fortune magazine 2017 is:  
 a) Pran                      b) Bkash                      c) Square                      d) Beximco

1. C	2. A	3. C	4. A	5. C	6. A	7. C	8. B	9. C	10. B
11. B	12. D	13. C	14. A	15. B	16. D	17. A	18. C	19. B	20. B
21. A	22. D	23. A	24. D	25. D	26. B	27. C	28. B	29. A	30. A
31. C	32. D	33. B	34. B	35. D	36. C	37. D	38. B	39. C	40. C
41. A	42. B	43. B	44. D	45. B	46. B	47. D	48. D	49. C	50. C
51. C	52. A	53. A	54. C	55. B	56. D	57. C	58. A	59. A	60. C
61. B	62. B	63. B	64. A	65. A	66. A	67. C	68. C	69. B	70. C
71. A	72. D	73. B	74. A	75. B					