

The Federal Reserve System is an independent agency of the United States government that helps oversee the national banking system. Since 1913 the Federal Reserve System, commonly called the Fed, has served as the central bank for the United States. It consists of twelve District Reserve Banks and their branch office along with several committees and councils. All national Commercial banks are required by law to be members of the Fed, and all deposit taking institutions are subject to supervision by the Fed regarding the amount of deposits that must be held in reserve and, therefore, are not available for loans. The most powerful body is the seven-member Board of Governors in Washington, appointed by the president and confirmed by the Senate. The system's primary function is to control monetary policy by money and credit through the purchase and sale of government securities. If the Federal Reserve provides too little money, interest rates tend to be high, borrowing is expensive, business activity slows down, unemployment goes up, and there is danger of recession. If there is too much money, interest rates decline and borrowing can lead to excess demand. Pushing up prices and fueling inflation. The Fed has several responsibilities in addition to controlling the money supply. In collaboration with the U.S. Department of the Treasury, the Fed puts new coins and paper currency in circulation by issuing **them** of banks. It also supervises the activities of member banks abroad, and regulates certain aspects of international finance.

1. **Which of the following would be the most appropriate title for this passage?**
 A. Banking
 B. The Federal Reserve System
 C. The Board of Governors
 D. Monetary Policies Ans.B

2. **What happens when the Federal Reserve provides too little money?**
 A. Demand for loans increases
 B. Unemployment slows down
 C. Interest rate goes up
 D. Businesses expand Ans.C
3. **The word "them" refers to**
 A. responsibilities B. the money supply
 C. coins and paper currency
 D. circulation Ans.C
4. **According to the information in this passage, what causes inflation?**
 A. High unemployment rates
 B. Too much money in the economy
 C. Very high fuel prices
 D. A limited supply of goods Ans.B
5. **Which professor would probably give this lecture?**
 A. Criminal Justice B. History Ans.C
 C. Economics D. Political Science
6. **What are the Synonyms of Abate?**
 A. Increase B. Meager
 C. Disperse D. Reduce Ans.D
7. **What are the Antonyms of Adept?**
 A. Inept B. Clever
 C. Expert D. Aid Ans.A
- 8) **Which one is not a greenhouse Gas?**
 A) Carbon dioxide B) Methane
 C) Ozone D) none Ans.C
- 9) **The antonym of amicable is**
 A) Penetrating B) Compensating
 C) Unfriendly D) zigzag Ans.C
- 10) **Humiliate means----**
 A) Inept B) Clever
 C) Expert D) Aid Ans.A
11. **We do not learn---mistakes**
 A. to B. from
 C. in D. by Ans.B
12. **The lady prides herself - her beauty**
 A. for B. about
 C. Of D. Upon Ans.D
13. **Identify the correct sentence**
 A. He wears glasses
 B. He wears a glass
 C. He wears glass
 D. He wears a glasses Ans.A

14. Which one of the following is correct?
 A. The poor is born to suffer.
 B. The poor are born to suffer.
 C. Poor is born to suffer.
 D. Poor are born to suffer. **Ans.B**
15. Which sentence is correct?
 A. Where are your luggages?
 B. Can you give me an advice?
 C. What beautiful sceneries?
 D. What an awful weather? **Ans.D**
16. Choose the correct sentence?
 A. A big number of money?
 B. I met two women here.
 C. Put your sign here.
 D. I have paid my scholing fees. **Ans.B**
17. The antonym of Dismoy is -
 A. Joy B. Understanding
 C. Anguish D. Satisfaction **Ans.A**
18. Credulous : Sceptical
 A. Congret: Brilliant
 B. Placate: Irritate
 C. Indegenuous: Naive
 D. Proscribe: Prohibit **Ans.B**
19. Author: Copyright
 A. Paper: Metal B. Plot: Machine
 C. Novel: Reward
 D. Inventor: Patent **Ans.C**
20. Discharged: Soldier
 A. Fired: Canon B. Appointed: Judge
 C. Docked: Salary
 D. Graduated : Student **Ans.D**
21. What is the synonym of Sagacious?
 A. Malicious B. Judicious
 C. Malice D. Critical **Ans.B**
22. TheSynonymof Assiduity is -
 A. Omnipresence B. Steadfastness
 C. Anxiety D. Reluctance **AnsB**
23. What is the 'onym of Copious?
 A. Abund B. Sufficient
 C. A lot o. D. Insufficient **Ans.D**
24. The antonym of C varse is -
 A. Abrupt B. Bland
 C. Indolent D. Aware **Ans.B**
25. What is the synonym of Tangible?
 A. Concrete B. Abstract
 C. Negative D. Impalpable **Ans.A**
26. What is the incorrect spelling?
 A. Boungeoise B. Blaspheme
 C. Baptism D. Bureaucracy **Ans.A**
27. Choose the correct spelt word?
 A. Enthusiastic B. Enthousiastic
 C. Enthosuastic D. Enthausiastic **Ans.A**
28. Which one of the following is correct?
 A. Allegiance B. Virtuoso
 C. Troubadoor D. Bursary **Ans.D**
29. Choose the wrongly spelt word?
 A. Commission B. Lieutenant
 C. Etiquette D. Remiricence **Ans D**
30. Let us play-----chess.
 A. A B. An
 C. The D. No Article **Ans.D**
31. He gave up tennis.
 A. to play B. of playing
 C. play D. playing **Ans D**
32. Change the voice of 'we ought to have save our environment'
 A. Our environment ought to have been saved.
 B. Our environmen ought to have been save.
 C. Our environment ought to had been saved.
 D. Our environment ought to have saved.
Ans.A
33. The word tolerant is ----
 A. Noun B. Adjective
 C. Pronoun D. Verb **Ans.B**
34. They ----- my proposal.
 A. Turned away B. turned off
 C. turned down D. turned away **Ans.D**
35. What is the verb forms of poverty?
 A. Povert B. Impoverish
 C. Poverty stricken D. Povertive

FBS GK 2020-21

1. Where is the Headquarter of FAO located?
 A. Geneva B. Leo
 C. Rome D. London **Ans.C**
2. Which country recently conducts global missile testing?
 A. USA B. Russia
 C. Pakistan D. India **Ans.B**
3. Which geographic line has passed through Bangladesh?
 A. Tropic of Cancer B. The Equator
 C. Capricorn line D. None **Ans.A**

4. Which one of the next is a member of the FIVE EYES?
 A. China B. Japan
 C. Russia D. Newzeland **Ans.D**
5. Agreeing to supervision census, how many tribal communities are there in Bangladesh?
 A.48 B 60
 C.80 D.50 **Ans.D**
6. Which one of the next is produced at maximum in Bangladesh?
 A. Mango B. Zute
 C. Rice D. Fish **Ans.C**
7. When did Maradona play his first internationa match?
 A.1980 B. 1978
 C. 1981 D. 1979 **Ans.D**
8. Who was the prime minister of Pakistan at 21 st Feb. Of 1952?
 A.KhajaNajmuddin
 B .Liakot Ali Khan
 C. Mohammad Ali
 D.Nurul Amin **Ans.B**
9. Who is the author of the book 'Development as Freedom'?
 A. AmartyaSen B. Martha Nussbaum
 C. Dr. Mohammad Yunus
 D. Sir FazleHasan Abed **Ans.A**
10. Which of the following ray is used to find fake passport?
 A. UV-ray B. None
 C. X-ray D. R-ray **Ans.A**
11. What is the length of an cricket bat?
 A. 96 cm B. 95cm
 C. 96 cm D. 93 cm **Ans.B**
12. In which upazilla 'Bhasan Char' located at?
 A. Haitian B. NoakhaliSadar
 C. Char fashion D. Dudlar char **Ans.A**
13. Which of the behind is known is 'SagarKanya'?
 A. Bhola B. Barishal
 C. Shatkhira D. Patuakhali **Ans.D**
14. What is the length of Metro Rail in kilometer?
 A. 20 km B. 22 km
 C. 25 km D. 20.10 km **Ans.D**
15. When will the Bangabandhu-2 Sattelite launched in the space?
 A. 2021 B. 2022
 C. 2023 D. 2024 **Ans.C**
16. Who is the leader of the National Parliament?
 A. Prime Minister B. President
 C. Chief whip D. Speaker **Ans.D**
17. Which country accepted the COVID-19 vaccine at first?
 A. USA B. UK
 C. Russia AustraliaD. Australia **Ans.B**
18. Which country has first created the bullet train?
 A. China B. Japan
 C. USA D. UK **Ans.B**
19. What is the full name of WAPDA?
 A. Water and Power Development Authority
 B. Water and Agricultural Development Authority
 C. Water and Production Development Authority
 D. Water and Power Developing Authority **Ans.A**
20. Where is the Secretariat of the SAARC situated?
 A. NewDilhi B. Islamabad
 C. Kathmundu D. Dhaka **Ans.C**
21. What is the explanation of BRICS?
 A. An acronym for Brazil, India, China and South Africa
 B. An acronym for Bangladesh, Russia, Indoneshia,
 C. China, Singapore An acronym for Brazil, Russia, India, China, South Africa
 D. An acronym for Brazil, Russia, India, China and Singapore **Ans.C**
22. Where has Surma&Kushiara amalgamated?
 A. Goyalando B. Ajmiriganj
 C. Chadpur D. Bogura **Ans.B**
23. Which one is the capitalof the East Timor?
 A. Dili B. Bandarseri Begawan
 C. Hanoi D. Manila **Ans.A**
24. Who is the director of the film 'SurjaDighal Bari'?
 A. KhanAata B. SubhashDutta
 C. ZaheerRaihan
 D. Sheikh NiyamtSharker **Ans.D**
25. Who is the student of Dhaka university?
 A. KonstantinosDoxiadis
 B. Mazharul Islam C. Lila Nag
 D. NawabSallimullah **Ans.C**

26. What type of device is SSD ?
 A. Non volatile B. Volatile
 C. Hard Disk Drive D. Input device Ans.A
27. Who first designed the national Flag of Bangladesh?
 A. Kamrul Hassan B. Shiv Shankar
 C. Shiv Narayan das
 D. AbdurRahman Ans.C
28. What is the full form of GDP, GNP?
 A. Gross Domestic Product, Gross National Product
 B. Good Domestic Product, Gross National Product
 C. Grade Domestic Product, Grade
 D. National Product Good National Product, Good Domestic Product Ans.A
29. Which bank account deliver the least dividend?
 A .Regular savings Account
 B. Money Market Accounts
 C. Certificates of deposit Account
 D. Cash Management Account Ans.A
30. Who is the architect of ShaheedMinar?
 A. MainulHaque B. TanvirKabir
 C. HamidurRahman
 D. NitunKundu Ans.C

Math-35

1. Which of the following number is a prime?
 (a) 163 (b) 161
 (c) 153 (d) None of these Ans.A
2. If an integer y is subtracted from an integer x and the result is greater than x, then y must be:
 (a) equal to x (b) less than 0
 (c) less than x (d) greater than 0 Ans.B
3. If $x = -1$ which of the following is the largest?
 (a) $2x$ (b) x
 (c) x^2 (d) x^3 Ans.C
4. Which of the following number is not a prime number?
 (a) 97 (b) 157
 (c) 149 (d) 165 Ans.D

5. Which of the following has the largest value?
 (a) 0.2 (b) 0.22
 (c) 0.022 (d) 0.222 Ans.D
6. The average weight of X, Y, Z is 35 lbs. If the average weight of X and Y is 30 lbs and that of Y and Z is 33 lbs, then the weight of Y is-
 (a) 20 lbs (b) 21 lbs
 (c) 22 lbs (d) 23 lbs Ans.B
7. A car averages 40 miles per hour for the first 6 hours of a trip and average 60 miles per hour for each additional hour of travel time. If the average speed for the entire trip is 55 miles per hour, how many hours long is the trip?
 (a) 12 (b) 16
 (c) 18 (d) 24 Ans.D
8. The average age of Joe and Jim was 15 years, five years ago. Today, the average age of Joe, Jim and Kate is 20 years. How old will Kate be after 10 years?
 (a) 45 years (b) 40 years
 (c) 35 years (d) 30 years Ans.D
9. Karim bought a ticket of a cricket match for Tk. 25 and later sold the ticket to Rahim for Tk. 75. What was the percent increase in the price of the ticket ?
 (A) 50% (B) 100%
 (C) 200% (D) 300% Ans.C
10. Mr. x spends 72% of his income on food, 20% on clothing, 5% on gifts and the remaining Tk. 330 on lottery tickets. What is his income ?
 (A) 8000 (B) 9000
 (C) 10000 (D) 11000 Ans.D
11. 15 is 5% of what number ?
 (A) 270 (B) 280
 (C) 290 (D) 300 Ans.D
12. A hospital needs 150 pills to treat 6 patients for a week. How many pills does it need to treat 10 patients for a week?
 (a) 250 (b) 260
 (c) 270 (d) 280 Ans.A

13. If 15 workers can paint a certain wall in 24 days, how many days will 40 workers take, working at the same rate, to do the same job?
 (a) 6 days (b) 7 days
 (c) 8 days (d) 9 days **Ans.D**
14. If 15 workers can paint 18 houses in 24 days, how many days will 40 workers take to paint 22 houses?
 (a) 10 days (b) 11 days
 (c) 12 days (d) 13 days **Ans.B**
15. The ratio of the number of freshmen to sophomores to juniors to seniors on a college football team is 4 : 7 : 6 : 8. What percent of the team are sophomores?
 (a) 20% (b) 22%
 (c) 24% (d) 28% **Ans.D**
16. If $A:B = 3:4$, $B:C = 5:6$, and $C:D = 11:9$, then $A:D$ is
 (a) 50:60 (b) 55:72
 (c) 60:70 (d) 65:75 **Ans.B**
17. By selling a product for tk. 80, a person makes a profit to 25% on cost, what is the cost of that product?
 (a) tk. 61 (b) tk. 62
 (c) tk. 63 (d) tk. 64 **Ans.D**
18. How much simple interest will tk. 2,000 earn in 18 months at an annual rate of 6%?
 (a) 120 (b) 180
 (c) 216 (d) 240 **Ans.B**
19. What is the difference of compound interest on tk. 800 for 1 year at 20% per annum when compounded half-yearly and quarterly?
 (a) 0 (b) 2.50
 (c) 4.40 (d) 6.60 **Ans.C**
20. On a certain project the only grades awarded were 75 and 100. If 85 students completed the project and the average of their grades was 85, how many earned 100?
 (a) 34 (b) 40
 (c) 4 (d) 51 **Ans.A**
21. Any is twice as old as she was 10 years ago. What is her age now?
 (a) 18 (b) 20
 (c) 22 (d) 24 **Ans.B**
22. x and y can do a job in 3 days, x can do it alone in 5 days. How many days would it take y to do the job alone?
 (a) 7 (b) 7.5
 (c) 8 (d) 8.5 **Ans.B**
23. What is the area of a square whose diagonal is 10?
 (a) 20 (b) 40
 (c) 50 (d) 100 **Ans.C**
24. What are the coordinates of the midpoint of the points A (4,6) and B(-2,4)?
 (a) (1,1) (b) (6,1)
 (c) (1,4) (d) (1,5) **Ans.D**
25. What is the distance from point A (1,1) to point B (5,4)?
 (a) 3 (b) 4
 (c) 5 (d) 6 **Ans.C**
26. The length of a rectangle is twice its width. If the perimeter of the rectangle is the same as the perimeter of a square of side 6, what is the square of the length of a diagonal of the rectangle?
 (a) 70 (b) 80
 (c) 90 (d) 100 **Ans.B**
27. A train 50 meters long passes a platform 100 meters long in 10 seconds. The speed of the train is
 (a) 50 (b) 52
 (c) 54 (d) 56 **Ans.C**
28. Two train A and B start from station x and y towards y and x respectively. After passing each other, they take 4 hours 48 minutes and 3 hours 20 minutes to reach y and x respectively. If train A moving at 45 km/hr, then the speed of train B is
 (a) 60 (b) 70
 (c) 80 (d) 90 **Ans.C**
29. If a man was r years old s years ago, how many years old will be t years from now?
 (a) $s+r+t$ (b) $rs+t$
 (c) $s-r+t$ (d) $r-s+t$ **Ans.A**
30. A box contains 24 balls, some red and some black. Each of the following could be the ratio of red to black balls except.
 (a) 1:1 (b) 3:1
 (c) 5:3 (d) 4:3 **Ans.D**

31. In a water sugar solution, the ratio of water to sugar is 8:3. If you add 2kgs of sugar, the ratio becomes 2:1. What is the amount of sugar in the original solution in kg?
 (a) 3 (b) 4
 (c) 6 (d) 8 **Ans.C**
32. If a jar contains 24 white marbles and 48 black marbles, then what percent of all the marbles in the jar are black ?
 (A) 25% (B) 33 %
 (C) 60% (D)66% **Ans.D**
33. If the population of a town was 20,000 in 1970 and 16,000 in 1980, what was the percent decline in the town's population?
 (A) 50% (B) 25%
 (C) 20% (D) 10% **Ans.C**
34. How many positive integers less than 100 have a remainder of 3 when divided by 7?
 (a) 11 (b) 12
 (c) 13 (d) 14 **Ans.D**
35. If $2 < x < 4$ and $3 < y < 7$, where x and y are integers, what is the largest integer value of (x+y)?
 (a) 9 (b) 10
 (c) 11 (d) 12 **Ans.A**

**Bangladesh University of Professionals
 (BUP)**

Faculty of Arts & Social Science: 2020-21

English

When drawing human figures, children often make the head too large for the rest of the body. A recent study offers some insights into this common disproportion in children's illustrations. As part of the study, researchers asked children between 4 and 7 years old to make several drawings of men. When **they** drew front views of male figures, the size of the heads was markedly enlarged. However, when the children drew rear views of men, the size of the heads was not so exaggerated. The researchers suggest that children draw bigger heads when they know they must leave room for facial details. Therefore, the odd head size in children's illustrations is a form of planning ahead and not an indication of a poor sense of scale.

1. **The main subject of the passage is**
 A. What the results of an experiment revealed
 B. How children learn to draw
 C. how researchers can gather data from works of art
 D. what can be done to correct poor sense of scale **Ans.A**
 E. why children cannot draw as well as adults.
2. **It can be inferred that, during the research project, children drew.**
 A. Pictures of men from different angles
 B. figures without facial expressions
 C. sketches of both men and women
 D. only the front view of men
 E. in the presence of the researchers **Ans.A**
3. **The word "they" in line 4 refers to**
 A. researchers B. men
 C. illustrations D. children
 E. artists **Ans.D**
4. **The findings of the experiment described in the passage would probably be of least interest to which of the following groups?**
 A. teachers of art to children
 B. commercial artists
 C. experts in child development
 D. parents of young children
 E. school principals. **Ans.B**
5. **The passage provides information to support which of the following conclusions?**
 A. children under the age of 7 do not generally have a good sense of scale.
 B With training, young children can be taught to avoid disproportion in their art.
 C. Children enlarge the size of the head because they sense that it is the most important part of the body.
 D. Children plan ahead when they are drawing pictures **Ans.C**
6. **The meaning of Shackles is----**
 A.Freedom B.Secure
 C.Chain D.Fetter **Ans.C**
7. **It was so hot that we- change our date to travel**
 A. had better B. better
 C. then D. rather **Ans.a**

English

Research has shown that air pollutants from fossil fuel use make clouds reflect more of the sun's rays back into space. This leads to an effect known as global dimming whereby less heat and energy reaches the earth. However, it is believed that global dimming caused the droughts in certain parts of the world where millions died, because the northern hemisphere oceans were not warm enough to allow rain formation. Global dimming is also hiding the true power of global warming. By cleaning up global dimming- causing pollutants without talking greenhouse gas emissions, rapid warming has been observed and various human health and ecological disasters have resulted, as witnessed during the European heat wave in 2003, which saw thousands of people die.

1. What could be the appropriate title of the passage?
 - a. The phenomena of global dimming
 - b. Global warming
 - c. problems of Climate Change
 - d. global warming and greenhouse gas
2. The main impact of global dimming is-
 - a. Acting as a Savior to climate change
 - b. causing the drought in Ethiopia
 - c. the cooling effect of reflecting radiation
 - d. none of these
3. Which one is not an effect of fossil fuel use?
 - a. Reflection of sun rays back into the space
 - b. global warming
 - c. global warming
 - d. savior of climate change
4. What does the word hiding in the sixth line mean?
 - a. Global dimming reduces the power of global warming
 - b. Global dimming focuses the issue of global warming
 - c. Global dimming domains the true power of global warming
 - d. Global dimming is not an issue of global warming

5. Which of the following statements is correct?
 - a. Global dimming is just the opposite of global warming
 - b. Global dimming is undermining the effect of global warming the
 - c. Ozone Layer is also a contributor to the damping effect
 - d. None of above
6. Synonym of "Appal"-
 - a. Dismay
 - b. Retain
 - c. Disclaim
 - d. Restore
7. Synonym of "Franchise"-
 - a. Sluggish
 - b. Strangle
 - c. Privilege
 - d. Pollute
8. Synonym of "Appended"-
 - a. Healthful
 - b. Accept
 - c. Joined
 - d. Spoke
9. Synonym of "Alluring"-
 - a. Stipulation
 - b. Common
 - c. To the point
 - d. Luxury
10. Synonym of "Venerate"-
 - a. Winding
 - b. Lucid
 - c. Limpid
 - d. Respect
11. Antonym of "Dearth"-
 - a. Esteem
 - b. Honor
 - c. Susceptible
 - d. Abundance
12. Synonym of "Frugal"-
 - a. Give up
 - b. Extravagant
 - c. Release
 - d. Abdicate
13. Antonym of "Honorable"-
 - a. Salaried
 - b. Palpable
 - c. Touchable
 - d. Guess
14. Antonym of "Gentle"-
 - a. Scolding
 - b. Fickle
 - c. Rude
 - d. Capricious
15. Antonym of "Supercilious"-
 - a. Conjecture
 - b. Affable
 - c. Reticent
 - d. Cozen
16. Virology: Virus:: Semantics:?
 - a. Amoeba
 - b. Language
 - c. Nature
 - d. Society

17. Flower: Butterfly:: Dirt?
 a. Rats **b. Fly**
 c. Bugs d. Sweeper
18. Malaria : Disease : : Spear:?
 a. Wound b. Sword
c. Weapon d. Death
19. Matricide : Mother : : Homicide:?
a. Human b. Children
 c. Father d. Apes
20. Food : Stomach : : Fuel:?
 a. Plane b. Truck
c. Engine d. Automobile
21. The word 'seek' is closest ___ meaning to the pursue
 a. of **b. in**
 c. the d. to
22. I am glad ___ (or about) the news.
 a. near b. than
 c. up **d. of**
23. He is independent ___ his parents.
 a. from b. with
c. of d. for
24. Green and magenta are complementary colors located opposite each other on the color wheel, ___
 a. and blue and yellow so
 b. and too blue and yellow
 c. and so blue and yellow do
d. and so are blue and yellow
25. only after jim had seen the flying creature ___ of the unending variety of the world.
 a. he become surprised
 b. he did become surprised
c. did he become surprised
 d. did he become surprise
26. The committee has met and they has reached a decision
 a. they has reached a decision
 b. they have reached a decision
c. it has reached a decision
 d. its decision was reached at
27. ___ Java man who lived before the first ice age is the first man like animal
 a. generally believed it is
b. It is generally believed that
 c. believed generally is
 d. that is generally believed
28. One day Mr Ameen was waling ___ a wood in the rain
 a. in **b. through**
 c. under d. by
29. Frost occurs in valleys and on low grounds ___ on adjacent Hills
 a. More frequently as b. as frequently then
c. more frequently than
 d. frequently than
30. Farmers look forward to ___ every summer
a. Participating in the county fairs
 b. participates in the county fairs
 c. be participating in the county fairs
 d. have participated in the fairs
31. If she wre I, she would have accepted the prize if she had won it.
a. were, I, she would have accepted the prize if she had won it.
 b. was I, she would have accepted the prize if she had won it.
 c. were I she would have accepted the prize if she had won it.
 d. had I she would have accepted the prize if she had won it.
32. ___ Many technical advances that have affected 21st century life but the most Far reaching has been the introduction of the computer
 a. being that there **b. there have been**
 c. there being d. they have been

84. Where the headquarter of ICJ is located?
 a. USA **b. Netherlands**
 c. Russia d. Finland
85. How many countries have been selected as the cultural capital of the Islamic world for 2020?
 a. 1 b. 2
c. 3 d. 4
86. How many candidates of Bangladesh descent won in the British Parliament?
 a. 1 b. 2
 c. 3 **d. 4**
87. How many deep sea port is/are there in Bangladesh?
a. 1 b. 2
 c. 3 d. 4
88. First full-fledged naval base is situated in -
 a. Chattogram b. Barishal
 c. Sylhet **d. Dhaka**
89. Who is the Attorney General of Gambia?
 a. Mama Fatima Singhateh
b. Ba Tambadou
 c. Adama Barrow d. Alhaji Marie
90. Who is the most powerful woman in the world?
a. Angela Merkel b. Christine Lagarde
 c. Nancy Pelosi d. Mary Bapra
91. Who is known as the daughter of climate?
 a. Mary Carrie b. Malala Yousafzai
c. Greta Thanberg
 d. Moshammed Begum
92. How many government EPZs are there in Bangladesh?
a. 4 b. 8
 c. 12 d. 16
93. The world's first taka bond was introduced in which country?
a. London stock exchange
 b. Dhaka stock exchange
 c. America stock exchange
 d. India stock exchange
94. Which is the best product of the year 2020?
 a. Medicine **b. light engineering**
 c. agriculture d. Dairy
95. What is the current extreme poverty rate in Bangladesh?
a. 10.5% b. 11.5%
 c. 12.5% d. 13.5%
96. What is the name of the new Prime Minister of Lebanon?
 a. Saad Hariri b. Michelle Aoun
 c. Biab Hasan **d. Hasan Diab**
97. Sabalan Hill tracts is situated in -
 a. Sri Lanka **b. Iran**
 c. Afghanistan d. Sudan
98. Mobile manufacturer One Plus is a company from -
 a. India b. Russia
 c. France **d. China**
99. Which country has the most refugees in the world?
a. Turkey b. Mexico
 c. United Kingdom d. India
100. What is the current number of internet users in Bangladesh?
 a. 10 core **b. 9 core**
 c. 8 core d. 7 core

Bangladesh University of Professionals (BUP)
Faculty of Arts & Social Science: 2019-20

Section-1: ENGLISH MARKS-40

Choose the Best Synonym of the Following Words (1-5)

1. "Tumult"-
a. Commotion b. Composure
 c. Calm d. Tranquility
2. "Anxiety"-
 a. Disquiet b. Apprehension
 c. Unease **d. Indifference**
3. "Consequential"-
 a. Negligible b. Small
c. Conjugate d. Casual

I

Previous Year Question: BUP

Bangladesh University of Professionals (BUP)

Faculty of Business Studies (FBS)

Session: 2015-2016

ENGLISH

Part-1: Reading Comprehension

Directions: Read the passage carefully and answer Questions I through 5 in light of it,

Bangladesh is a development surprise for the rest of the world. It proved many myths wrong. Global development thinkers like Professor Amartya Sen lauded overall progress of Bangladesh. Professor Sen underlined that Bangladesh has progressed much more in development sector compared to many developing countries of the world. At an early stage of Millennium Development Goals (MDG) implementations, Bangladesh adjusted its development plans to the MDG framework. Bangladesh wanted the MDG targets to help in realizing the national aspiration. The country has already achieved or is on track to meet almost all the MDGs. Key to success of Bangladesh was political commitment and people's inspiration to make 'Sonar Bangla'. Bangladesh also mobilized its national resources and enhanced capabilities; empowered people; engaged in partnership with a wide range of local and international actors. During this period, Bangladesh reduced extreme poverty by half. Bangladesh improved access to basic education, health services, water and

sanitation. During the last six years, Gross Domestic Product (GDP) of Bangladesh grew at over 6% despite global slowdown. Over the past decade, exports of Bangladesh grew by more than three times; foreign exchange reserve has risen around seven times. This year, Bangladesh graduated to the World Bank's lower-middle income status. Bangladesh is on course to become a Middle Income Country by 2021. Commitment of Bangladesh Government has always been to ensure well-being of people. The government is working to protect vulnerable people, including migrants and persons affected by climate change, autism and other forms of disabilities. These come from the vision of the nation to build an inclusive society.

Bangladesh has decided to take technology to people's doorstep. The vision of 'Digital Bangladesh' is bringing results in lifting people's lives and livelihoods. People in Bangladesh receive over 200 services from 5,275 Digital Centres. Over 16,500 IT-connected Community Health Clinics and Union Parishad Health Complexes extend basic health care services. To realize demographic dividend, Bangladesh invested heavily on skill development of younger population. Present Government emphasize much on education and health for all particularly of women and girls.

To ensure food and nutrition security, Bangladesh has scaled up its investment in agriculture, Bangladesh agriculture has fast transformed to be a driver of development. Technology and innovation is hallmark of present-day agriculture in Bangladesh. Bangladesh Government has developed stress-tolerant crop varieties to adapt to the changing climate. She has achieved self sufficiency in food

production and now exporting rice abroad. Bangladesh wants to sustain the momentum of the MDGs, build on their successes. Bangladesh has set its 'Vision 2021' – to emerge as a Middle Income, knowledge-driven digital economy. These are to realize the dream of the Father of the Nation, Bangabandhu Sheikh Mujibur Rahman, to build a 'Sonar Bangla', the land of Golden Bengal.

- 01. It can be inferred that Bangladesh Government is undertaking required initiatives in achieving the MDGs few of them include:
 - a. mobilizing its national resources and enhanced capabilities
 - b. improving access to base education, health services, water sanitation and empowering people
 - c. engaging in partnership with a wide range of local and international actors
 - d. All of the above
- 02. According to the passage, all of the following are true EXCEPT
 - a. Commitment of Bangladesh Government has always been to ensure well-being of its people
 - b. Over the past decade, exports of Bangladesh grew by more than three times
 - c. Bangladesh Government has developed stress-tolerant crop varieties to adapt to the changing climate
 - d. Bangladesh is still struggling in achieving MDG
- 03. According to the passage, Present Government emphasizes much on
 - a. Education and Agriculture
 - b. Education and Sanitation
 - c. Education and Health
 - d. All of the above

- 04. A suitable Title for the passage would be
 - a. Challenges in Implementation of MDGs
 - b. Bangladesh becomes a Middle Income Country by 2021
 - c. Environmental Movements in Bangladesh
 - d. Knowledge-driven digital Bangladesh
- 05. From the passage it can be inferred that Bangladesh has scaled up the investment in Agriculture:
 - a. to develop stress-tolerant crop varieties
 - b. to ensure the food and nutrition security for its citizens
 - c. to export rice abroad
 - d. None of the above

Part II: Synonyms

In questions 6 through 10, indicate the given choices, which has the similar meaning of the word in CAPITAL letters.

- 06. HOMOGENEOUS
 - a. Heterogeneous
 - b. Similar
 - c. Different
 - d. Harmony

Explanations: homogeneous অর্থ একই জাতীয় বা সমজাতীয় (similar) সূত্রাং Correct answer: B
- 07. ARTICULATE
 - a. Aware
 - b. Disjoined
 - c. Intelligible
 - d. None of the above
- 08. INGENUOUS
 - a. Sophisticated
 - b. Clever
 - c. Cunning
 - d. Naive

Explanation: ingenuous অর্থ খুবই কাঁচা বা আনাড়ি, আনকড়া (Native) সূত্রাং Correct answer: D
- 09. ANARCHY
 - a. Era
 - b. Partner
 - c. Disorder
 - d. Spike
- 10. DIVULGE
 - a. Divert
 - b. Reveal
 - c. Docile
 - d. None of above

Part III: Antonyms

In questions 11 through 15, indicate from the given choices, which one has an opposite meaning of the word in CAPITAL letters.

11. CURTAIL
a. Increase b. Renounce
c. Forbid d. Criticize
12. REALISM
a. Finale b. Antagonist
c. Modern d. Romanticism
13. REVOKE
a. Establish b. Remove
c. Retain d. Escape
14. DEBACLE
a. Debate b. Decide
c. Success d. Discord
15. TRANSIENT
a. Harmful b. Intentional
c. Ornate d. Interminable

Part IV: Analogy Test

Directions: Carefully notice the relationship between the words in CAPITAL letters in each question numbered 16 through 20. Choose the answer from the pair whose relationship most resembles with it.

16. BOTANY: PLANT
a. Professor Degree b. Fruit: Flower
c. Science: Chemical d. Zoology: Animal
17. SUPPORT: ADVOCATE
a. Reward: Victor
b. Applaud: Performer
c. Denounce: Accuser d. Donate: Financier
18. ARCHIVES: RECORDS
a. Clothes: Shoes b. Catalog: Shelves
c. Aviary: Birds d. Thread: Spindle

Explanation: Archives-এ records থাকে, Aviary তে Birds থাকে। সুতরাং Correct answer:

C

19. INTEREST: FASCINATION
a. Dislike: Abhorrence
b. Faith: Belief
c. Science: Witchcraft
d. Fire: Torch
20. ACCOUNTANT: ACCURATE
a. Judge: incorruptible b. Journal: Ledger
c. Books: Accounts d. Verse: Poem

Part V: Sentence Correction

Direction: The questions numbered 21 through 25 consist of a number of sentences, in each of which some part of the whole is underlined. Each sentence is followed by four alternative versions of the underlined portion. Select an alternative you consider both most correct and most effective according to the requirements of standard written English. Answer 'A' is the same as the original version; if you think the original version is the best, select answer 'A'. In considering the answer choices, be attentive to matters of grammar, diction, and syntax, as well as clarity, precision, and fluency. Do not select an answer, which alters the meaning of original sentence.

21. If I would have knows about the traffic jam at the bridge, I would have taken as alternate route.
a. If I would have known
b. If I could of known
c. If I would of known
d. Had I known
22. The number of rooms in my house were less in numbers than yours.
a. were less in numbers than yours
b. were less in numbers than those of yours
c. were fewer in numbers than that of yours
d. was fewer in numbers than that of yours

23. He likes everyone as much as her, and so she does not feel special.
 a. He likes everyone as much as her,
 b. He likes everyone as much as he,
 c. He has a liking for everyone equal to her,
 d. He has a liking for everyone equal to she,
24. When one takes food in this restaurant, you often find that the prices are high and that the food is poorly prepared and the service is quite frustrating.
 a. When one takes food in this restaurant, you often find
 b. When you take food in this restaurant, one often find
 c. When one takes food in this restaurant, one often finds
 d. If you take food in this restaurant, you often find

25. Most of the children like to read these kind of books for their bedtime reading.
 a. these kind of books b. these kind of book
 c. this kind of book d. this kinds of books

Explanation: Singular এর ক্ষেত্রে kind of এবং plural এর ক্ষেত্রে kinds of হয়। সুতরাং Correct answer: C

Part VI: Fill in the Blanks

26. The articles — the magazine publishes are very scholarly.
 a. which b. and
 c. of d. in
27. Dinosaurs dominated the earth for 150 million years — suddenly vanished 65 million years ago.
 a. until they b. until
 c. that they d. because they
28. Physicist J. Robert Oppenheimer — an important role in the birth of the atomic age.
 a. who played b. playing
 c. had d. was

29. The habit of chewing gum has been — him.
 a. growing with b. growing upon
 c. growing on d. given to
30. Mr. Karim was walking through a wood — a rainy day.
 a. of b. on
 c. through d. in

MATHEMATICS

Direction: This section contains 40 MCQ type questions numbered 31 through 70. Choose the correct answer. Diagrams given are not necessarily drawn to scale.

31. A Jar contains white, red and green marbles in the ratios 2:3:4. Five more green balls are added to the Jar and the ratios become 2:3:5. How many white balls are there in the Jar?
 a. 4 b. 6
 c. 8 d. 10

Solve: After adding 5 green balls the ratio increased by 1. So the number of white balls are $2 \times 5 = 10$.

32. In a triangle PQR, PR is the longest side. Then the largest of the three angles is
 a. P b. Q
 c. R d. 90°

Solve: We know that the opposite angle of the longest side is the largest angle.

33. If a and p are both odd numbers, which of the following numbers must be an even number?
 a. $n + p$ b. $n + p + 1$
 c. $np + 2$ d. np

34. Of a group of 27 students, 18 belongs to Communication Club and 15 belong to the Business Club. If Each student belongs to at least one club, how many students belong to both clubs?

- a. 3 b. 6
c. 4 d. None of above

Solve: $n(S) = 27$

$$n(BC) = 15$$

$$n(CC) = 18$$

$$n(S) = n(BC) + n(CC) - n(BC \cap CC)$$

$$\Rightarrow n(BC \cap CC) = 15 + 18 - 27 = 6$$

35. A father's age is four times his son's age now. Twenty years from now, the father's age will be double his son's age. What will be the son's age ten years from now?

- a. 10 b. 15
c. 20 d. 30

Solve: Father's age, x

Son's age, y

$$\text{now, } x = 4y \Rightarrow x - 4y = 0 \text{ ----- (i)}$$

$$(x + 20) = 2(y + 20)$$

$$\Rightarrow x + 20 = 2y + 40 \Rightarrow x - 2y = 20 \text{ ----- (ii)}$$

solving (i) and (ii) we get, $x = 40$ and $y = 10$

10 years from now son's age will be $(10 + 10) = 20$ years.

36. A man and a boy together can complete a job in 81 days. Two men and three boys together can complete the same job in 36 days. In how many days can four men together complete the same job?

- a. 21 b. 27
c. 30 d. 36

Solve: Lets consider

In 1 day man does x portion of work

In 1 day 1 boy does y portion of work

$$\text{so, } x + y = \frac{1}{81} \text{ again, } 2x + 3y = \frac{1}{36}$$

$$\text{solving we get } x = \frac{1}{108}, y = \frac{1}{324}$$

In 1 day 4 man does portion of work = $4 \times$

$$\frac{1}{108} \text{ Portion}$$

$$= \frac{1}{27} \text{ portion}$$

So, the whole work needs 27 days.

37. If 'n' is an integer, which of the following must be even?

- a. $n+1$ b. $n-1$
c. $3n-1$ d. $2n+2$

Solve: As n is integer, $2n$ is even, So, $2n + 2$ will also be even

38. If a number is divisible by 102, then it is also divisible by:

- a. 23 b. 11
c. 103 d. 2

Solve: Every even number can be divided by 2

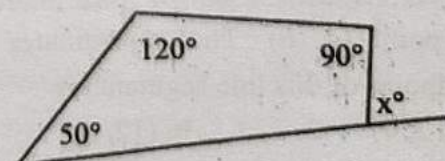
39. A square room has a square carpet symmetrically placed in it. This leaves an uncovered area of 9m^2 . The area of the whole room is 25m^2 . What is the length of one side of the carpet?

- a. 2 b. 4
c. 6 d. 8

Solve: Carpet area $(25 - 9)\text{m}^2$
 $= 16\text{m}^2$

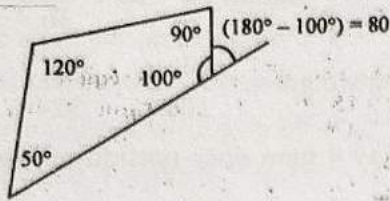
So, length of a side = $\sqrt{16} \text{ m} = 4\text{m}$

40. In the figure below, what is the value of x ?



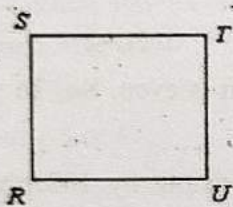
- a. 50 b. 70
c. 80 d. 90

Solve:

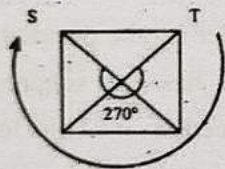


We know, the sum of 4 angles of a quadrilateral is 360°

41. Square RSTU shown below is rotated in a plane about its center in a clockwise direction. The minimum number of degrees necessary for T to be in the position where S is



- a. 135° b. 180°
c. 225° d. 270°



Solve:

42. What is the next number in the series 3, 11, 27, 51, ___?
a. 123 b. 113
c. 93 d. None of the above

Solve:3

$$3 + 8 = 11$$

$$11 + 5 \times = 27$$

$$27 + 8 \times 3 = 51$$

$$51 + 8 \times 4 = 83$$

43. A line segment is drawn from point (8, -2) to point (4, 6). The co-ordinates of the midpoint of this line segment are
a. (12, 4) b. (12, 8)
c. (6, 4) d. (6, 2)

Solve:mid point $\left(\frac{8+4}{2}, \frac{-2+6}{2}\right) = (6, 2)$

44. What % of 0.25 is 0.01?

- a. 4% b. 1%
c. 10% d. 8%

Solve: $0.25 \times \frac{x}{100} = 0.01 \Rightarrow x = 4\%$

45. If two halves of $2\frac{1}{2}$ are added to $2\frac{1}{2}$, the result is

- a. $5\frac{1}{2}$ b. $3\frac{3}{4}$
c. 5 d. 3

Solve:half of $2\frac{1}{2}$ is $1\frac{1}{4} = 5$

46. A boy can swim 75 feet in 12 seconds. What is his rate of speed of swimming to the nearest mile per hour (mph)?

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

Solve:They boy swims 75 feet or 0.0142 mile in 12 seconds

so, he swims at $\frac{0.0142}{12} \times 3600 \text{ mph} = 4.26 \text{ mph}$

47. If $x = 3$ and $y = \frac{1}{6}$, then the value of x in terms of y is:

- a. 18y b. $\frac{1}{2}y$
c. $\frac{20y}{2}$ d. $\frac{19y}{3}$

Solve: $18y = 18 \times \frac{1}{6} = 3 = x$

so, $x = 18y$

48. An old computer that can print a document in 6 hours. With the help of a newer model the job can be completed in 2 hours. How long would it take the newer model to do the job alone?

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

Solve: In 1 hrs the old computer does $\frac{1}{6}$ portion

In 2 hrs the old computer does $2 \times \frac{1}{6}$ portion

$= \frac{1}{3}$ portion

So, in 2 hrs the new computer does $1 - \frac{1}{5}$

$= \frac{4}{5}$ portion

so, the new computer needs 3 hrs to complete the Job alone.

49. Of the followings, which is greater than $\frac{1}{2}$?

a. $\frac{2}{5}$

b. $\frac{4}{7}$

c. $\frac{4}{9}$

d. $\frac{5}{11}$

Solve: $\frac{1}{2} = 0.5, \frac{4}{7} = 0.57$

$\therefore \frac{4}{7} > \frac{1}{2}$

50. There are 50 students enrolled in Mathematics Course. Of the enrolled students, 90% took the final exam. Two-thirds of the students who took the final exam passed the final exam. How many students passed the final exam?

a. 30

b. 33

c. 34

d. 35

Solve: Students who took exam are $50 \times \frac{90}{100} = 45$

Number of students who passed is $45 \times \frac{2}{3} = 30$

51. Volume of a water tank is 192 cubic feet. Its length, breadth & height are in proportions 4 : 3 : 2. What is the area of its base in square feet?

a. 24

b. 48

c. 32

d. 64

Solve: Let,

length $4x$

breadth $3x$

height $2x$

so, $192 = 4x \times 3x \times 2x$

$\Rightarrow x = 2$

area of the box $= (4 \times 2) \times (3 \times 2)$

$= 48$ sq feet

52. A club has 8 male and 8 female members. The club is choosing a committee of 6 members. The committee must have 3 male and 3 female members. How many different committees can be chosen?

a. 112896

b. 3136

c. 720

d. 112

Solve: The number of committee is ${}^8C_3 \times {}^8C_3 = 3136$

53. In a survey conducted, it was found that 65% of the people watched the news in television, 40% read a news paper, 25% read a news paper and watched the news on television. What percent of the people surveyed neither watched the news on television nor read a newspaper?

a. 0%

b. 5%

c. 10%

d. 20%

Solve: $n(W) = 65$

$n(R) = 40$

$n(W \cap R) = 25$

$n(S) = n(W) + n(R) - n(W \cap R)$

$= 65 + 40 - 25 = 80$

so, $n(S) = 100 - 80 = 20$

54. A certain animal in the zoo has consumed 39 pounds of food in six days. If it continues to eat at the same rate, in how many more days will its total consumption be 91 pounds?

a. 12

b. 11

c. 10

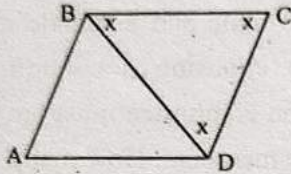
d. 8

Solve: 91 pounds will be consumed in $\frac{91}{39}$ days
6

= 14 days

(14 - 6) days = 8 days

55. ABCD is a parallelogram. BD = 2. The angles of triangle BCD are all equal. What is the perimeter of the parallelogram?



- a. 12 b. $9\sqrt{3}$
c. 9 d. 8

Solve: In BCD triangle all angle are equal

So, BC = CD = BD

\therefore Perimeter of ABCD = $2(BC + CD) = 2(2+2) = 8$

56. A triangle has a perimeter 13. The two shorter sides have integer lengths equal to x and x + 1. Which of the following could be the length of the other side?

- a. 2 b. 4
c. 6 d. 8

Solve: Option test

57. How much money you must invest for two years to receive an interest of Tk. 10.50 at an annual compounding rate of interest of 10%

- a. Tk. 105 b. Tk. 90
c. Tk. 60 d. Tk. 50

Solve: $A = P(1 + r)^1 \Rightarrow (P + 10.50) = P(1 + 0.10)^2$

$\Rightarrow (P + 10.50) = 1.21 \Rightarrow 10.50 = 0.22P$

$\Rightarrow P = \frac{10.50}{0.22} = 50$ Tk.

58. Three apples and Four oranges cost Tk. 64. Four apples and Three oranges cost Tk. One

apple, One orange and One papaya cost Tk. 28. What is the cost of papaya in Taka?

- a. 12 b. 10
c. 20 d. None of the above

Solve: $3 \times \text{Apples} + 4 \times \text{oranges} = 64$ Tk ----- (1)

$4 \times \text{Apples} + 3 \times \text{oranges} = 62$ Tk ----- (2)

Apple + orange + pappya = 28 Tk ----- (3)

Solving (1), (2) & (3) we get,

The price of papaya is 10 Tk

59. If the ratio of the area of two squares is 2: 1, then the ratio of the perimeters of the square is

- a. 1:2 b. $1:\sqrt{2}$
c. $\sqrt{2}:1$ d. 2:1

Solve: $\frac{a^2}{b^2} = \frac{2}{1} \Rightarrow \frac{a}{b} = \frac{\sqrt{2}}{1}$

$\Rightarrow \frac{4a}{4b} = \frac{4\sqrt{2}}{4} = \sqrt{2}:1$

60. If value of a certain fraction is equal to 0.4 and the denominator is 15, then the numerator of the fraction is

- a. 6 b. 8
c. 9 d. 12

Solve: $0.4 = \frac{x}{15} \Rightarrow x = 0.4 \times 15 = 6$

61. A store usually sells a certain item at 40% profit. One week the store has a sale, during which the item is sold for 10% less than usual price. During the sale, what is the profit percentage the store makes on each of these items?

- a. 4% b. 14%
c. 36% d. 30%

Solve: During sell, the price of the item is $0.9 \times$ Previous price.

The profit is $40\% \times 0.9 \text{ Price} = 0.36 \times \text{Price}$

So, the profit is 36%

70. An investor invests 30%, 40%, 20% and 10% of his total investable amount in four different shares of stock giving returns of 15%, 20%, 12% and 10% respectively. What is the average rate of his returns?
- a. 13.25% b. 12.25%
c. 14.25% d. None of above

Solve: $\frac{15+20+12+10}{4} = 14.25\%$

General Knowledge

Directions: This section contains 30 MCQ type questions numbered 71 through 100. Choose the correct answer.

71. Name of the present Governor of the Central Bank of Bangladesh:
- a. Dr. Mohammad Farashuddin
b. Rehman Sobban
c. Salehuddin Ahmed d. Dr. Atiar Rahman
- Note: Dr. Fozle Kabir
72. 'Statue of Liberty' was a gift to the USA from the people of:
- a. UK b. Germany
c. France d. Italy
73. 'Niagara Fall' is located in between;
- a. USA and Alaska
b. Canada and Mexico
c. Mexico and USA
d. None of the above
74. Panama Canal connects:
- a. Indian and Atlantic Ocean
b. Indian and Pacific Ocen
c. Pacific and Atlantic Ocean
d. Mediterranean and Red Sea
75. 'Yuan' is the currency of:
- a. Japan b. South Korea
c. Taiwan d. None of the above
76. Which country of the following is not a member of 'BRICS' association?
- a. Brazil b. Russia
c. Romania d. India
77. Leo Tolstoy was a/an:
- a. American military leader
b. Russian writer
c. Hollywood actor
d. Religious leader
78. 'Mossad' is the name of intelligence agency of:
- a. India b. Pakistan
c. Myanmar d. Israel
79. FBCCI stands for;
- a. Federation of Bangladesh Cricket Council and Institution
b. Federation of Bangladesh Commerce of Chambers and Industry
c. Federal Bureau of Chambers of Commerce and Industry
d. Federation of Bangladesh Chambers of Commerce and Industry
80. The capital city of New Zealand is:
- a. Rotterdam b. Vienna
c. Wellington d. Havana
81. 'Kantajir Mondir' (a Hindu Temple) is located in:
- a. Joypurhat b. Rangpur
c. Nilphamari d. Dinajpur
82. The first government of independent Bangladesh was formed in 1971 on:
- a. 07 March b. 17 April
c. 13 May d. 16 December
83. Name of the Home Minister of Bangladesh is:
- a. Asaduzzaman Khan Kamal
b. Sahara Khatun
c. Hasanul Haque Inu
d. Dr. Hasan Mahmud

