

BA ADMINISTRATION AND GOVERNANCE  
THIRD SEMESTER  
LOGICAL, REASONING AND GENERAL APTITUDE  
BAAGNC – 307

**SET  
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1.30 hrs.

Full Marks: 35

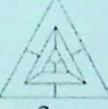
**(Objective)**

Time: 1.30 hrs.

Marks: 35

Choose the correct answer from the following:

1 × 35 = 35

- If the selling price of an article is doubled, then its loss percent is converted into equal profit percent. The loss percent on the article is
  - $16\frac{2}{3}\%$
  - 33%
  - $33\frac{1}{3}\%$
  - 34%
- Find the odd one out of the following series:  
8, 14, 26, 48, 98, 194, 386
  - 98
  - 48
  - 386
  - 8
- How many different nine digit numbers can be formed from the number 22 33 55 8 88 by rearranging its digits, so that, the odd digits occupy the even positions?
  - 16
  - 36
  - 60
  - 180
- What is the minimum number of colours required to fill the spaces in the following diagram without the adjacent sides having the same colour?  

  - 3
  - 5
  - 7
  - 6
- A stationer buys diaries at Rs. 75 per dozen and sells them at Rs. 15 per piece. What is the profit?
  - Rs. 75
  - Rs. 100
  - Rs. 105
  - Rs. 110
- If B is the only child of C's grandfather's only daughter, then how is C's father related to B?
  - Maternal uncle
  - Father
  - Paternal uncle
  - Brother
- If a sum money at simple interest doubles in 12 years, the rate of interest per annum

is

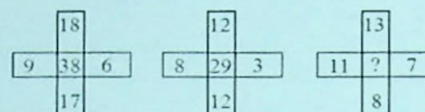
a.  $8\frac{1}{3}\%$

c.  $16\frac{2}{3}\%$

b. 7.5%

d. 10%

8. Fill in the question mark



a. 28

c. 32

b. 34

d. 25

9. The angle between the Minute Hand and Hour Hand of a clock when the clock shows 7:20 p.m. is

a.  $180^\circ$

c.  $110^\circ$

b.  $100^\circ$

d.  $90^\circ$

10. The digits 1 to 9 are arranged in three rows in such a way that each row contains three digits and the number formed in the second row is twice the number formed in the first row; and the number formed in the third row is thrice the number formed in the first row. Repetition of digits is not allowed. If only three of the four digits 2, 3, 7 and 9 are allowed to use in the first row, how many such combinations are possible to be arranged in the three rows?

a. 4

c. 2

b. 3

d. 1

11. X and Y run a 3 km race along a circular course of length 300 m. Their speeds are in the ratio 3: 2. If they start together in the same direction, how many times would the first one pass the other (the start-off is not counted as passing)?

a. 2

c. 4

b. 3

d. 5

12. A has some coins. He gives half of the coins and 2 more to B. B gives half of the coins and 2 more to C. C gives half of the coins and 2 more to D. The number of coins D has now is the smallest two digit number. How many coins does A have in the beginning?

a. 76

c. 60

b. 68

d. 52

13. You are involved in setting up a water supply project in remote area. Full recovery of cost is impossible in any case. The income levels in the area are low and 25% of the population is below poverty line (BPL). When a decision has to be taken on pricing you would....

a. Recommended that the supply of water be free of charge in all respects

c. Recommended that a fixed monthly charges be levied on the non-BPL

b. Recommended that the users pay a onetime fixed sum for installation of taps and the usage of water be free

d. Recommended that the users pay a charge based on the consumption of

families and for BPL families water should be free

water with differentiated charges for Non-BPL and BPL families.

14. Seven boxes A, B, C, D, E, F, G are kept one above the other containing different number of chocolates ranging from 10-90. There are two boxes kept between Box B and the box containing 56 chocolates, which is kept below box B. Only one box is kept between box F and the box containing 56 chocolates. Two boxes are kept between box F and box A, which is kept below box B. Three boxes are kept between Box A and the box containing 41 chocolates which is not kept at the bottom. Box A contains 5 less chocolates than box B. Only one box is kept between box D and box containing 41 chocolates, which is kept below box D. Box C kept below box E, which contains 81 chocolates. Box C is kept immediately below box containing 64 chocolates. Box C does not contain 56 chocolates. Box C contains 24 less chocolates than box D. Box G contains 6 more chocolates than box D.

What is the difference of chocolates in box G and box B?

- a. 20  
b. 46  
c. 23  
d. 15

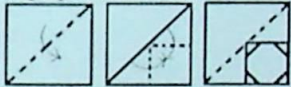
15. Consider the following figures:



Change in positions of beads in the figures above follows a sequence. Following the same sequence, which of the figures look should appear as the fifth figure above?

- a. b.   
c. d.

16. A paper is folded and cut as shown below. How will it appear when unfolded?



- a. b.   
c. d.

17. Consider the following statements:

- 1) Some claim to have seen UFOs (Unidentified Flying Objects).
- 2) Life on other heavenly bodies is considered to be a possibility.
- 3) Voyage to space is now an established fact.

From the above statements, it may be concluded that

- a. UFOs are heavenly bodies  
b. UFOs are sent from other heavenly bodies  
c. Some living species in other heavenly bodies are more intelligent than man  
d. Nothing definite can be said about the UFOs

18. Consider the question and the two statements given below: Question: Is C brother of A?  
 Statements-1: A is a brother of B and B is a brother of C.  
 Statement-2: A, B and C are siblings.  
 Which one of the following is correct in respect of the question and the statements?
- a. Statement-1 alone is sufficient to answer the question.      b. Statement-2 alone is sufficient to answer the question.  
 c. Both Statement-1 and Statement-2 are sufficient to answer the question.      d. Both Statement-1 and Statement-2 are not sufficient to answer the question.
19. Consider the following arrangement that has some missing letters:  
 abab\_b\_bcb\_dcdcded\_d  
 The missing letters which complete the arrangement are
- a. a, b, c, d      b. a, b, d, e  
 c. a, c, c, e      d. b, c, d, e
20. A family of two generations consisting of six members P, Q, R, S, T and U has three males and three females. There are two married couples and two unmarried siblings. U is P's daughter and Q is R's mother-in-law. T is an unmarried male and S is a male. Which one of the following is correct?
- a. R is U's husband      b. R is S's wife  
 c. S is unmarried      d. None of the above
21. A man walks down the backside of his house straight 25 meters, then turns to the right and walks 50 meters again; then he turns towards left and again walks 25 meters. If his house faces to the East, what is his direction from the starting point?
- a. South-East      b. South-west  
 c. North-East      d. North-west
22. Two Statements are given followed by two Conclusions:  
 Statements:  
 All cats are black.  
 Conclusion-I:  
 All dogs are black.  
 Conclusion-II:  
 Some dogs are not black.  
 Which of the above Conclusions logically follows/follow from the two given Statements disregarding commonly known facts?
- a. Only Conclusion-I      b. Only Conclusion-II  
 c. Neither Conclusion-I nor Conclusion-II      d. Both Conclusions-I and Conclusion-II
23. The average age of a teacher and three students is 20 years. If all the three students are of same age and the difference between the age of the teacher and each student is 20 years, then what is the age of the teacher?
- a. 25 years      b. 30 years  
 c. 35 years      d. 45 years
24. A person bought a car and sold it for Rs. 3,00,000. If he incurred a loss of 20%, then how much did he spend to buy the car?
- a. Rs. 3,60,000      b. Rs. 3,65,000  
 c. Rs. 3,70,000      d. Rs. 3,75,000

25. What is the missing term in the following?  
ACPQ : BESU:: MNGI: @
- a. NPJL  
b. NOJM  
c. NPIL  
d. NPJM
26. How many different 5-letter words (with or without meaning) can be constructed using all the letters of the word 'DELHI' so that each word has to start with D and end with I?
- a. 24  
b. 18  
c. 12  
d. 6
27. As a result of 25% hike in the price of rice per kg, a person is able to purchase 6 kg less rice for Rs. 1,200. What Was the Original price of rice per kg?
- a. Rs. 30  
b. Rs. 40  
c. Rs. 50  
d. Rs. 60
28. In a class, 60% of students are from India and 50% of the students are girls. If 30% of the Indian students are girls, then what percentage of foreign students are boys?
- a. 45%  
b. 40%  
c. 30%  
d. 20%
29. A Statement followed by Conclusion-I and Conclusion-II is given below. You have to take the Statement to be true even if it seems to be at variance from the commonly known facts. Read all Conclusions and then decide which of the given Conclusion(s) logically follows/follow from the Statement, disregarding the commonly known facts.  
Statement: Some radios are mobiles. All mobiles are computers. Some computers are watches.  
Conclusion-I: Certainly some radios are watches.  
Conclusion-II : Certainly some mobiles are watches.  
Which one of the following is correct?
- a. Only Conclusion-I  
b. Only Conclusion-II  
c. Both Conclusion-I and Conclusion-II  
d. Neither Conclusion-I nor Conclusion-II
30. A Statement followed by Conclusion-I and Conclusion-II is given below. You have to take the Statement to be true even if it seems to be " at variance from the commonly known facts. Read all Conclusions and then decide which of the given Conclusion(s) logically follows/follow from the Statement, disregarding the commonly known facts.  
Statement: Some cats are almirahs. Some almirahs are chairs. All chairs are tables.  
Conclusion-I: Certainly some almirahs are tables.  
Conclusion-II : Some cats may not be chairs.  
Which one of the following is correct?
- a. Only Conclusion-I  
b. Only Conclusion-II  
c. Both Conclusion-I and Conclusion-II  
d. Neither Conclusion-I nor Conclusion-II
31. A bank employee drives 10 km towards South from her house and turns to her left and drives another 20 km.. She again turns left and drives 40 km, then she turns to her right and drives for another 5 km. She again turns to her right and drives another 30 km to reach her bank where she works. What is the shortest distance between her

bank and her house?

- a. 20 km
- b. 25 km
- c. 30 km
- d. 35 km

32. Replace the incorrect term by the correct term in the given sequence 3, 2, 7, 4, 13, 10, 21, 18, 31, 28, 43, 40 where odd terms and even terms follow the same pattern

- a. 0
- b. 1
- c. 3
- d. 6

33. Following is a matrix of certain entries. The entries follow a certain trend row-wise. Choose the missing entry (?) accordingly.

7B	10A	3C
3C	9B	6A
10A	13C	?

- a. 9B
- b. 3A
- c. 3B
- d. 3C

34. You are given two identical sequences in two rows :

Sequence-I:	8	4	6	15	52.5	236.25
Sequence-II:	5	A	B	C	D	E

What is the entry in the place of C for the Sequence-II?

- a. 2.5
- b. 5
- c. 9.375
- d. 32.8125

35. Which day is 10th October, 2027?

- a. Sunday
- b. Tuesday
- c. Monday
- d. Saturday