

**Avinashilingam Institute for Home Science and Higher Education for Women**

(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)[now MoE]

Re-accredited with A++ Grade by NAAC CGPA 3.65/4, Category I by UGC

Coimbatore - 641 043, Tamil Nadu, India

**Continuous Internal Assessment Test-III November 2025**

**V Semester**

**Class : 2019 & 2022 (Repeaters)**

**Major : Computer Applications**

**Time :3 hours**

**Maximum Marks:100**

**18BCAC26/21BCAC26 Quantitative Aptitude and Reasoning (Self-study)**

**Course Outcomes:**

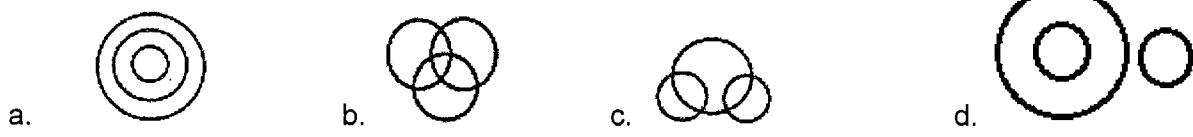
1. Acquires Time Management for Competitive Examinations.
2. Makes Calculations successfully, Interprets Data, Communicate Results, Evaluates an issue and Solve a problem in real- world context.
3. Develops Critical Thinking by analyzing complex issues using information from credible sources.
4. Procures the ability to read between the lines and understand various language structures.
5. Comprehends quick decision making.

**Part A**

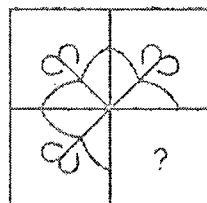
**10x1=10**

**Choose the correct answer**

1. If  $8x+5y = 9$  and  $3x+2y= 4$ , what is y? CO1K3  
 a. 5                      b.6                      c.7                      d.8
2. If a: b = 5: 9 and b: c = 7: 4, then find a: b: c. CO1K2  
 a. 36:35:63              b. 63:35:36              c. 36:63:35              d. 35 : 63 : 36
3. Which of the following is leap year? CO2K1  
 a. 2019                      b.1900                      c.1864                      d.1943
4. In how many ways a three digit number can be formed using 1,2,3,4? CO2K3  
 a. 24                      b.6                      c.3                      d.4
5. A cube has \_\_\_\_\_ faces, \_\_\_\_\_ vertices and \_\_\_\_\_ edges? CO3K3  
 a.8,12,6                      b.6,12,8                      c.12,8, 6                      d.6,8,12
- 6 Choose which of the following diagram represents relationship among the given elements in a much logical way. Vegetables, potato, banana CO3K2



7. The synonym of **Juvenile** and antonym of **Taboo** is CO4K3  
 a. Disconcert, Apathy              b. precise, Stingy              c. young, consent              d. tender, Familiar
8. Select the pair which has the same relationship LIGHT:BLIND?  
 a. tongue:sound              b. language:deaf              c. voice:vibration              d. speech:dumb CO4K1
9. . If DELHI is coded as EDMGJ, how is MUMBAI written in that code? CO5K3  
 a. NTABH                      b.MNHTYU                      c.UJKLKM                      d.BGYTRE
10. Identify the figure that completes the pattern. CO5K2



**Part B**  
**Answer ALL Questions**

5x6=30

**Answer should not exceed 400 words or two pages**

- 11.a. The present age of Arun and Anu is in the ratio 3:4. 8 years back, the ratio of their ages was 2:3. What is the present age of Arun and Anu? Explain. CO1K3  
(or)
- 11.b. A grocer has a sale of Rs. 6435, Rs. 6927, Rs. 6855, Rs. 7230 and Rs. 6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Rs. 6500? CO1K2
- 12.a. What day will be 60 days after today, if today is Monday? CO2K2  
(or)
- 12.b. 15 men can type 3240 pages in 6 days working 2 hours per day. How many men would be required to type 5400 pages working 4 hours per day for 3 days? CO2K3
- 13.a. Consider the following data for 100 students. 31 took Maths, 42 took English, 28 took History, 6 took Maths and English, 9 took Math and History, 10 took English and History, 4 took all three subjects. 1. How many students took Math and History but not English? 2. How many students took Math only? 3. How many students took none of the three subjects? CO3K3  
(or)
- 13.b. **Statement:** 1. No girl is boy. 2. All boys are red. CO3K3  
**Conclusions:** 1. No girl is red 2. Some red are boys.  
a. Only 1 follows      b. Only 2 follows      c. Either 1 or 2 follows      d. Both 1 and 2

Explain the above syllogism with the help of **Income Expense method**.

- 14.a. Read the following passage and answer the following questions based on it: CO4K3

George was a young man who had gone to the big city from a small rural community and, in a relatively short time, attained prominence in the business world. His sudden rise had gone into his head, however, and he became unbearably conceited.

Eventually, George returned home after a visit, halfway expecting everyone in town to be at the railway station to welcome him.

Much to his surprise, George saw that no one, not even his family, was around to meet him when he descended from the train. He looked very neat in a new suit and carried a bulky suitcase full of fashionable clothes.

After a little while, the station master came from his office and went over to the young fellow. "Well, hello there, George", he called out cheerily, "Are you going away?"

**1. The station master's question implied that** (2 marks)

- a. he offered help to George in climbing the train
- b. he is known to George very intimately
- c. he is making fun of George
- d. George's absence from the town was not noticed by him

**2. George hoped for a big welcome because** (2 marks)

- a. of his achievement and success
- b. he is returning home after a very long time
- c. people loved him
- d. his community wanted dynamic leaders like him

**3. George's success was most clearly visible in** (2 marks)

- a. the station master's words
- b. his clothes
- c. his being unbearably conceited
- d. the manner in which he was received by the village

(or)

- 14.b. Based on the statement and assumptions, which of the option is correct? Explain. CO4K1

**Statement:** A warning in a train compartment - "To stop train, pull chain. Penalty for improper use Rs 500."

**Assumptions:** I. Some people misuse the alarm chain.

II. On certain occasions, people may want to stop a running train.

- a) Only I is implicit      c) Either I or II is implicit
- b) Only II is implicit      d) Neither I or II is implicit      e) Both I or II are implicit

- 15.a. Find the blood relation by drawing family tree CO5K2

Rita told Mani, "The girl I met yesterday at the beach was the youngest daughter of the brother-in-law of my friend's mother." How is the girl related to Rita's friend?

- a) Cousin      b) Friend      c) Daughter      d) Aunt

(or)

- 15.b. Write the next two numbers of the following sequence. 10, 17, 36, 73, 134,.. CO5K3

Part-C

5x12 =60

Answer ALL Questions

Answer the following in 800 words or two pages

- 16.a.1. The population of a city is 50,000 at present. It increases at the rate of 10% per annum. What was its population 4 years ago from present? (4 marks) CO1K2
- 16.a.2. Alfred buys an old scooter for Rs. 4700 and spends Rs. 800 on its repairs. If he sells the scooter for Rs. 5800, his gain percent is? (4 marks)
- 16.a.3. A boy covers 10kms at a speed of 5km/hr, 30kms at a speed of 7km/hr and 20kms at a speed of 15km/hr. Find out average speed. (4 marks)

(or)

- 16.b.1. A and B together have Rs.1210. If  $\frac{4}{15}$  of A's amount is equal to  $\frac{2}{5}$  of B's amount, how much amount does B have? (6 marks)
- 16.b.2. What percent is 42kg of 336kg? (3 marks)
- 16.b.3. If  $(64)^2 - (36)^2 = 20xy$ . What is y? (3 marks) CO1K1

- 17.a.1. Running with 72kmph a train crosses a pole in 12 seconds. Calculate length of the train. (6 marks)
- 17.a.2. A bus covers a distance of 216km in 4 hours. What is the speed of the bus in m/s? (6 marks) CO2K3

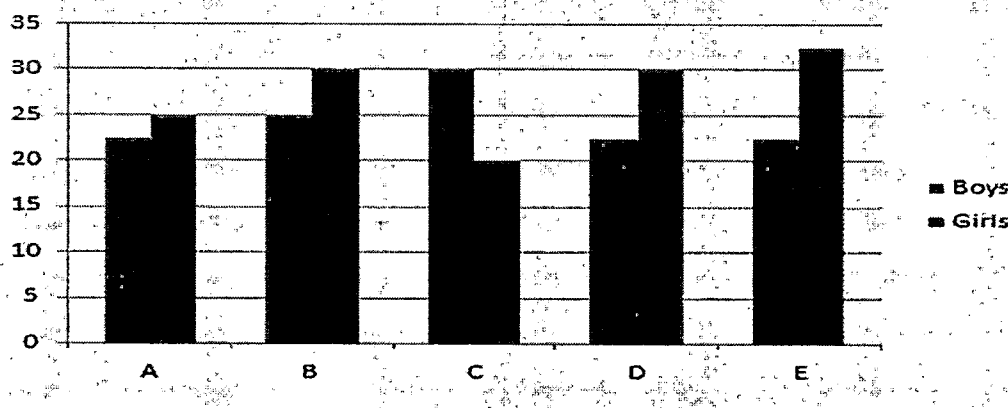
(or)

- 17.b.1. How much time will it take for an amount Rs.450 to yield Rs.81 as interest at 4.5% per annum of Simple Interest? (6 marks)
- 17.b.2. At what time between 7 & 8 o' clock will hands of the clock be in straight line but not together? (6 marks) CO2K3

- 18.a. Answer the questions given below using the graph: CO3K3

First bar-boys Second bar-girls

Total Number of Boys and Girls in Various Colleges  
Number in Thousands



1. Which of the following is the average number of girls from all the colleges?  
a.25000      b.27500      c.27000      d.25500 (4 marks)
2. The total number of girls from the college D and E together is how much percent of the total number of girls from the college A,B and C together?  
a.83.3%      b.75%      c.70%      d.88% (4 marks)
3. What is the difference between the total number of girls and the boys from all the colleges?  
a.13500      b.14000      c.15000      d.16000 (4 marks)

(or)

- 18.b. Select the correct option and give your reason. CO3K2

Q: What is the value of integer x?

Statement I- x lie in between 40 and 50.

Statement II- x is a multiple of 7.

- A. Only statement I is sufficient      C. Either statement I or statement II is sufficient  
B. Only statement II is sufficient      D. Both the statements together are not sufficient  
E. Both the statements together are sufficient

- 19.a.1. Complete the sentence (2 marks) CO4K3

1. \_\_\_\_\_ the fact that I never studied, I passed all of my tests.  
a. consequently      b. despite      c. because      d. as a result of  
2. Deepika is a \_\_\_\_\_ with boundless energy.  
a. slurping      b. improve      c. gloomy      d. dynamo

1. No, there are many other important courses available which should be made compulsory.
2. No, students should be given the choice.

- |                                  |                                  |
|----------------------------------|----------------------------------|
| a. If only argument I is strong  | c. if either I or II is strong   |
| b. If only argument II is strong | d. If neither I nor II is strong |
| e. If both I and II are strong   |                                  |

19.a.3. Write Synonyms of the following i) Abash ii) Decipher iii) Hazard (3 marks)  
Write Antonyms of the following i) Liberal ii) Prudence iii) Rustic (3 marks)

(or)

19.b.1. **Statement:** High IQ is important to be a scientist.

**Conclusions:** 1. The average student should not aspire to be a scientist.

2. All highly gifted students become scientist.

CO4K1

- |                               |                             |           |
|-------------------------------|-----------------------------|-----------|
| a. Only Conclusion I follows  | c. Either I or II follows   |           |
| b. Only Conclusion II follows | d. Neither I nor II follows | (6 marks) |

c. 19.b.2. Text Completion

For much of history and in many cultures, (1) ---- professional teachers was an option available only to a small elite. Thus, until (2) ---- recently, the vast majority of people were educated by parents, especially during early childhood. The earliest (3) ---- education in the West began in the late 17th century and early 18th century in some German States. (6 marks)

Blank (1)

Blank (2)

Blank (3)

excruciating  
invigilating  
enlisting

infinitesimally  
relatively  
inextricably

compulsory  
intimate  
ridiculous

20.a. Read the following information carefully and answer the questions given below: CO5K3

Following are the criteria for hiring Marketing Manager in a company...

The applicant must—

(i) be a post graduate in Marketing Management (ii) be at least 25 years old as on 30.4.2001

(iii) have work experience of at least three years (iv) be ready to work for at least two years after appointed

However, if a candidate— (a) fulfils all other criteria except at (i) above, but has work experience of more than five years— the case is to be referred to General Manager-Marketing. (b) fulfils all other criteria except at (iv) above, but has obtained Ph.D. Degree, the case may be referred to Vice President-Marketing.

Based on the above criteria and the information given in each case, you have to take the decision in each case. You are not assume anything. The cases are given to you as on 30.4.2001

1. Janaki Sharma has obtained her post graduation and Ph. D in Marketing Management. She is working for the last three years and is ready to work for one more year. She was born on 2nd October, 1973

- a) if the applicant is to be hired
- b) if the applicant is not to be hired
- c) if the case is to be referred to Vice-President-Marketing
- d) if the case is to be referred to General Manager-Marketing (6 marks)

2. Prabhat Bakshi is a graduate and has been working for the last ten years. He was 23 years old as on 21st June, 1995. He is ready to work for two more years. He is ready to work for another ten years.

- a) if the applicant is to be hired
- b) if the applicant is not to be hired
- c) if the case is to be referred to Vice-President-Marketing
- d) if the case is to be referred to General Manager-Marketing (6 marks)

(or)

20.b.1.

**Directions:** The question consists of two statements, an assertion (A) and a reason (R). Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements. CO5K2

**Assertion (A):** Glass is cut using diamonds.

**Reason (R):** The refractive index of diamonds is high.

Both A and R are true and R is the correct explanation of A.

1. Both A and R are true, but R is not the correct explanation of A.
2. A is true, but R is false.
3. A is false, but R is true. (6 marks)

20.b.2. Give explanation.

A car travels 25kms towards south from garage. It turns left and travels 30kms, then turns right and travel 15kms. How far is car from garage and in which direction? (6 marks)

- |                  |                  |                  |                  |
|------------------|------------------|------------------|------------------|
| a. 40 North-East | b. 70 South-East | c. 60 North-East | d. 50 South-East |
|------------------|------------------|------------------|------------------|