



# Hindustan Aeronautics Limited (HAL)

(DT/MT-2022)

**Practice Set**

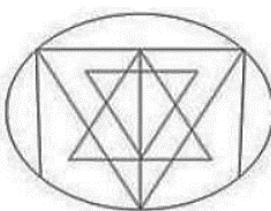
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**PART-1**

HAL

## Practice Questions

**Q.7** How many triangles are present in the following figure?



- (a) 23      (b) 27      (c) 25      (d) 29

**Q.8** Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

- (a) 83115      (b) 54215      (c) 43217      (d) 12347

**Q.9** T is sister of D. D is married to P. P is the son of M. T is the mother of J. Y is the father of U. Y has only one son and only one daughter. U is the daughter of T. Q is the son of D. If M is the wife of W, then how is Q related to W?

- (a) Son-in-law      (b) Son      (c) Grandson      (d) Nephew

**Q.10** Which number will replace the question mark (?) in the following series?

2, 4, 16, 52, 132, 282, ?

- (a) 512      (b) 527      (c) 534      (d) 572

**Q.11** Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

- (a) Germany      (b) Singapore      (c) Austria      (d) Italy

**Q.12** Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

ab\_ba\_db\_bd\_ac\_ba\_cdbabd\_

- (a) dcadbbab      (b) dcabdbab      (c) cdabdbba      (d) dcdbabbab

**Q.13** Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All women are engineers.

Some singers are engineers.

Conclusions:

I. All women are singers

II. All singers are women

III. Some engineers are women.

(a) Only conclusions I and II follow

(b) Only conclusion I follows.

(c) Only conclusion III follows.

(d) Only conclusions II and III follow.

**Q.14** From the given alternatives select the numbers that must be interchanged to make the following equation correct.

$$16-6+12 \times 3 = 18$$

- (a) 16 and 3      (b) 6 and 3      (c) 12 and 4      (d) 6 and 4

**Q.15** 2100 is divided among P, Q and R in such a way that P's share is half of the combined share of Q and R. and Q's share is one-fourth of the combined share of P and R. by what amount is R's share more than that of P?

- (a) 280      (b) 500      (c) 200      (d) 250



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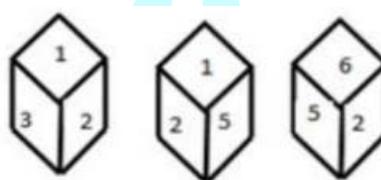
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**Q.20** Which number will replace the question mark (?) in the following series?

89, 90, 82, 109, 45?



**Q.21** Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

### Myopic: Farsighted

- (a) Famous: Obscure      (b) Confusion: Chaotic  
(c) Postpone: Suspend      (d) Trouble: Grief

**Q.22** Select the set in which the numbers are related in the same way as are the numbers of the following set. (15, 102, 313)

- (a) (11, 74, 229)      (b) (5, 32, 121)  
(c) (8, 53, 164)      (d) (9, 60, 185)

**O.23** Determine which answer must be true on the information given:

Most movie critics dislike Hollywood blockbusters. If someone dislikes Hollywood blockbusters, they are a snob. Most people who are over the age of fifty dislike Hollywood blockbusters. Some people who dislike Hollywood blockbusters are huge fans of theatre. If someone does not dislike Hollywood blockbusters, they like large explosions.

Each of the following must be true Except:

- (a) Most people over the age of fifty are snobs.
  - (b) If someone is not a snob, they like large explosions.
  - (c) Some movie critics are huge fans of theatre.
  - (d) Some people who dislike Hollywood blockbusters are over the age of fifty.

**Q.24** Determine which answer must be true on the information given:

As a society, we have no excuse for the prevalence of chronic dehydration. The remedy is simply too obvious and accessible. Those who suffer from the condition seek doctors' opinions and medications, suffer from unexplained dizziness and other symptoms, and are susceptible to sickness. To solve these problems and to increase energy and focus, these people need only to drink more water—either by itself or as a primary ingredient in other beverages.



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The information above provides the most support for which of the following statements?

- (a) Doctors do not advise chronically dehydrated patients to drink more water even though that would be the best remedy
- (b) Most people in the society at issue suffer from chronic dehydration
- (c) One can obtain all the health benefits of water by consuming it either by itself or as a primary ingredient in another beverage
- (d) Those who suffer from chronic dehydration could increase their energy and focus by drinking more water

**Q.25** Study the following information carefully and answer the questions given below:

Point P is 9m south of Point Q. Point L is 8m east of Point Q. Point X is 2m south of Point L. Point Z is 6m west of Point X. Point Z is 3 north of Point R. Point M is 4m east of Point R. Point S is 4m south of Point M. Point V is 5m east of Point S.

If Point G is 4m north of Point P, then how far and in which direction Point G with respect to Point R?

- (a) 2m, East
- (b) 3m, East
- (c) 3m, West
- (d) 2m, West

**Q.26** Study the following information carefully and answer the questions given below it.

There are 48 players and they have different ranks. Rank of B is 13<sup>th</sup> from the top. Rank of E is 21<sup>st</sup> from the bottom. C's rank is exactly between A and E. A's rank is 5 places below B. F's rank is 30<sup>th</sup> from the top.

How many players are ranked between F and E?

- (a) 9
- (b) 13
- (c) 1
- (d) 24

**Q.27** Road damage is often down to a few factors such as the quantity of traffic, the weight of the vehicles passing on it, and environmental conditions. XYZ town has a port, called ABC. To get to ABC, there is a road, that is divided into two lanes. One for the traffic going towards ABC port, and the other for traffic going away from ABC port. The lane of the road that leads to ABC port, has significantly less damage, than the lane that leads away from it.

Which of the following helps explain this best?

- (a) Less goods are exported, and more goods are imported from the port.
- (b) Wear on the highway is worse during the snowy season.
- (c) All of XYZ's goods are imported by ship.
- (d) None of these

**Q.28** In the past year, residents in Delhi have been suffering from a mysterious illness. A report said that over the past five years, Delhi's air has become extremely polluted, and contains a lot of toxins. Medical experts hypothesized that it is these pollutants that are causing the illness.

Which of the following options puts the hypothesis in doubt?

- (a) Some of the people who have been newly diagnosed began to develop the disease before the air in Delhi got polluted.
- (b) Those affected have been residing in Delhi for the past five years.
- (c) Both option a and b
- (d) Neither option a nor b

- Q.29** Directions: The question given below is followed by two arguments numbered I and II. You have to decide which of the argument is a strong argument and which is a weak argument.

Statement: Should coal engines be replaced by electric engines in trains?

Arguments:

- Yes, coal engines cause a lot of pollution.
  - No, India does not produce enough electricity to fulfil even the domestic needs.
- (a) Only I is strong  
 (b) Only II is strong  
 (c) Either I or II is strong  
 (d) Both I and II are strong

- Q.30** Directions: The question given below is followed by two arguments numbered I and II. You have to decide which of the argument is a strong argument and which is a weak argument.

Statement: Should non-vegetarian food be totally banned in our country?

Arguments:

- Yes. It is expensive and therefore it is beyond the means of most people in our country.
  - No. Any type of food should not be banned in a democratic country like ours.
- (a) Only I is strong  
 (b) Only II is strong  
 (c) Neither I nor II is strong  
 (d) Both I and II are strong

- Q.31** Directions: The question given below is followed by two arguments numbered I and II. You have to decide which of the argument is a strong argument and which is a weak argument.

Statement: Should the private sector be permitted to operate telephone services?

Arguments:

- Yes. This is the practice in advanced western countries.
  - No. It is risky to put telephone services in the hands of the private sector.
- (a) Only I is strong  
 (b) Only II is strong  
 (c) Neither I nor II is strong  
 (d) Both I and II are strong

- Q.32** Directions: In the question below is a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumption/s is/are implicit in the statement.

Statement:- "If you do not complete your assignment by tomorrow then I will punish you."- A teacher warns her student.

Assumption:

- After the warning, the student may complete his assignment.
  - All the students fear punishment.
- (a) If only assumption I is implicit  
 (b) If only assumption II is implicit  
 (c) If either I or II is implicit  
 (d) If neither I nor II is implicit



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- Q.33** Direction: In the question below is a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement: The State government has decided to appoint five thousand clerks during the next financial year.

Assumptions:

- There are enough number of departments in the government which are in the need of clerks.
  - The government is trying to provide employment to maximum people as possible.
- (a) If only assumption I is implicit  
 (b) If only assumption II is implicit  
 (c) If both I or II is implicit  
 (d) If neither I nor II implicit

- Q.34** Directions: In the question below is a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement: The problem of food poisoning due to consumption of fish has increased in the coastal areas

Assumption:

- Many people consume fish in coastal areas.
  - Fish in coastal areas consume contaminated material as their food.
- (a) If only assumption I is implicit  
 (b) If only assumption II is implicit  
 (c) If both I or II is implicit  
 (d) If neither I nor II implicit

- Q.35** Read the instructions carefully and answer the question below.

Six friends A, B, C, D, E and F have different weights. D weighs more than E but less than A who isn't the heaviest. B weighs less than only two people and he weighs 78 kg. C weighs 8 kg more than D but 21 kg less than A.

Who is the heaviest among all?

- (a) A \_\_\_\_\_  
 (b) B \_\_\_\_\_  
 (c) D \_\_\_\_\_  
 (d) F \_\_\_\_\_

- Q.36** Read the instructions carefully and answer the question below.

Six friends A, B, C, D, E and F have different weights. D weighs more than E but less than A who isn't the heaviest. B weighs less than only two people and he weighs 78 kg. C weighs 8 kg more than D but 21 kg less than A.

Who has the second lowest weight among all?

- (a) A \_\_\_\_\_  
 (b) B \_\_\_\_\_  
 (c) C \_\_\_\_\_  
 (d) D \_\_\_\_\_



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**Q.37** Read the instructions carefully and answer the question below.

Six friends A, B, C, D, E and F have different weights. D weighs more than E but less than A who isn't the heaviest. B weighs less than only two people and he weighs 78 kg. C weighs 8 kg more than D but 21 kg less than A.

If the average weight of A and B is 83 kg, what will be the weight of A?

- (a) 60 kg
- (b) 66 kg
- (c) 70 kg
- (d) 88 kg**

**Q.38** Study the following information and answer the questions given below.

In a certain code language,

“possible on three puzzle” is written as “dy no sm su”

“greater growth mandatory puzzle” is written as “ze ea dy om”

“mandatory possible is important” is written as “su ta nx ea”

“three growth is important” is written as “ta sm om nx”

What is the code for the word ‘possible’?

- (a) no
- (b) sm
- (c) su**
- (d) none of these

**Q.39** Study the following information and answer the questions given below.

In a certain code language,

“possible on three puzzle” is written as “dy no sm su”

“greater growth mandatory puzzle” is written as “ze ea dy om”

“mandatory possible is important” is written as “su ta nx ea”

“three growth is important” is written as “ta sm om nx”

If the code for 'the three hard puzzle' is 'dy hx sm ar' then what could be the code for 'the hard'?

- (a) hx ar**
- (b) d yar
- (c) hx sm
- (d) ta sm

**Q.40** Study the following information and answer the questions given below.

In a certain code language,

“possible on three puzzle” is written as “dy no sm su”

“greater growth mandatory puzzle” is written as “ze ea dy om”

“mandatory possible is important” is written as “su ta nx ea”

“three growth is important” is written as “ta sm om nx”

What is the possible code for ‘on important greater’?

- (a) su ta nx
- (b) no nx ea
- (c) du dy ta
- (d) no nx ze**

**Q.41** Study the following information and answer the questions given below.

In a certain code language,

“possible on three puzzle” is written as “dy no sm su”

“greater growth mandatory puzzle” is written as “ze ea dy om”

“mandatory possible is important” is written as “su ta nx ea”

“three growth is important” is written as “ta sm om nx”

‘om’ is the code for which of the following?

- (a) Three
- (b) Growth**
- (c) Is
- (d) Important

**Q.42** In the given word ‘CATER’ if the vowels are changed to the previous letter and the consonants are changed to the next letter as per the alphabetical series, then which letter will occur more than once in the newly formed word?

- (a) A
- (b) D**
- (c) U
- (d) None of these

**Q.43** How many such pairs of digits are there in the number ‘935416’, each of which has as many digits between them in the number (both forward and backward direction) as they have between them in the numerical series?

- (a) One
- (b) Two**
- (c) Three
- (d) More than three

**Q.44** If it is possible to make only one 4 letter meaningful word without repetition of letter with the second, fourth, sixth and the eighth letters of the word ‘DIALOGUE’, which would be the second letter of the word? If more than one such word can be formed, give X as the answer. If no such word can be formed, give K as your answer.

- (a) I
- (b) E
- (c) G
- (d) K**

**Q.45** In the following question assuming the given statements to be true, find which of the conclusion among given some conclusion is/are definitely true and then give your answers accordingly:

Statement:  $Q > I < N = K \leq T \leq E \leq U \geq Y > R = P > O = D > J$

Conclusions:

- I.  $U > I$
- II.  $Y > J$
- (a) Either I or II is true
- (b) Neither I nor II is true
- (c) Both I and II are true**
- (d) None of these



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- Q.46** In the following question assuming the given statements to be true, find which of the conclusion among given conclusions is/are definitely true and then give your answers accordingly.

Statements:  $C > D > E \geq G = H < J \geq K = A$

Conclusions:

- $E \leq J$
  - $E > J$
- (a) Either I or II is true  
 (b) Neither I nor II is true  
 (c) Both I and II are true  
 (d) None of these

- Q.47** In the following question assuming the given statements to be true, find which of the conclusion(s) among given conclusions is/are definitely true and then give your answers accordingly.

Statements:  $E > T \geq K = R, S > R = U$

Conclusions:

- $K < S$
  - $E > U$
- (a) Either I or II is true  
 (b) Neither I nor II is true  
 (c) Both I and II are true  
 (d) None of these

- Q.48** In the following question assuming the given statements to be true, find which of the conclusion(s) among given conclusions is/are definitely true and then give your answers accordingly.

Statement:  $B \geq G > Y \geq W = F < A$

Conclusions:

- $F < B$
  - $G > A$
- (a) Either I or II is true  
 (b) Neither I nor II is true  
 (c) Both I and II are true  
 (d) None of these

- Q.49** In the following question assuming the given statements to be true, find which of the conclusion among the given conclusions is/are definitely true and then give your answers accordingly

Statements:  $X \leq Y = Z > A = B < C > D > E \geq F$

Conclusions:

- $X < Z$
  - $X = Z$
- (a) Either I or II is true  
 (b) Neither I nor II is true  
 (c) Both I and II are true  
 (d) None of these



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**Q.50** Study the following information carefully and answer the question given below.

Ten persons: A, B, C, D, E, F, G, H, I and J are sitting on a circular table. All of them are facing the centre.

Two persons are sitting between A and B either from left or right. G is sitting third to the left of J and H is sitting second to the right of G. There are four persons sitting between B and D, either from the left or right. J is neither the neighbour of A nor of B. C and I are not neighbours of each other. D is sitting second to the left of A. J is sitting second to the left of E. G is sitting opposite to E. J is not sitting opposite to A. H is sitting opposite to C. F is neighbour of C and B. G is not the neighbour of D.

Who is sitting second to the left of I?

- (a) A
- (b) B**
- (c) C
- (d) D

**Q.51** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

P. But the eagle, in wrath, gave the beetle a flap of his wing, and straightaway seized upon the hare and devoured him.

Q. The beetle, therefore, interceded with the eagle, begging of him not to kill the poor suppliant, and pleaded with him not to kill so small an animal.

R. When the eagle flew away, the beetle flew after him, to learn where his nest was.

S. A hare, being pursued by an eagle, took himself for refuge to the nest of a beetle, whom he begged to save him.

- (a) PRSQ
- (b) SRPQ
- (c) RQPS
- (d) SQPR**

**Q.52** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

P. When we got near, we saw it was the steam rising from hot springs.

Q. We saw in the distance a great column of smoke.

R. We wondered if it came from a chimney or a burning house.

S. We thought of taking a bath in the hot water.

- (a) QRSP
- (b) PQRS
- (c) QRPS**
- (d) PRSQ

**Q.53** Directions: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

What every tourist must take back from Bhutan is pure honey, especially Putka, "Antibiotic" honey produced (1) Melipona Bees (stingless bees) a breed found in protected areas (2) 700 and 1,500 meters above sea level. Due (3) their small size, they can get larger nutrients (4) regular honeybees. It has a tangy/sour taste and can (5) your sore throat in a matter of minutes.

Select the most appropriate option to fill in blank number 1.

- (a) Of
- (b) Through
- (c) By**
- (d) With

**Q.54 Directions: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.**

What every tourist must take back from Bhutan is pure honey, especially Putka, “Antibiotic” honey produced (1) Melipona Bees (stingless bees) a breed found in protected areas (2) 700 and 1,500 meters above sea level. Due (3) their small size, they can get larger nutrients (4) regular honeybees. It has a tangy/sour taste and can (5) your sore throat in a matter of minutes.

Select the most appropriate option to fill in blank number 2.

- (a) Midst
- (b) After
- (c) Between**
- (d) Among

**Q.55 Directions: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.**

What every tourist must take back from Bhutan is pure honey, especially Putka, “Antibiotic” honey produced (1) Melipona Bees (stingless bees) a breed found in protected areas (2) 700 and 1,500 meters above sea level. Due (3) their small size, they can get larger nutrients (4) regular honeybees. It has a tangy/sour taste and can (5) your sore throat in a matter of minutes.

Select the most appropriate option to fill in blank number 3.

- (a) For
- (b) At
- (c) To**
- (d) Of

**Q.56 Directions: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.**

What every tourist must take back from Bhutan is pure honey, especially Putka, “Antibiotic” honey produced (1) Melipona Bees (stingless bees) a breed found in protected areas (2) 700 and 1,500 meters above sea level. Due (3) their small size, they can get larger nutrients (4) regular honeybees. It has a tangy/sour taste and can (5) your sore throat in a matter of minutes.

Select the most appropriate option to fill in blank number 4.

- (a) Then
- (b) Than**
- (c) Though
- (d) And

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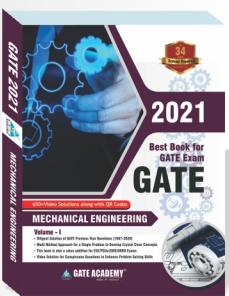
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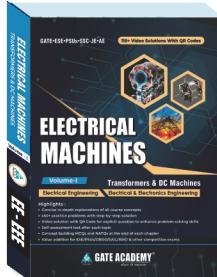
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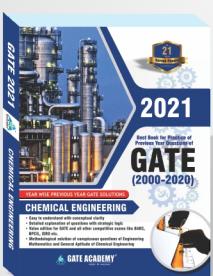
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## ELECTRICAL MACHINES



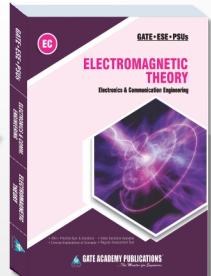
## CHEMICAL ENGINEERING



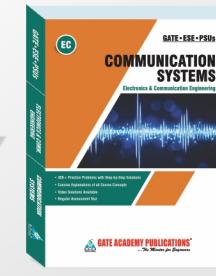
## HAND BOOK (ME)



## ELECTROMAG. THEORY (EC)



## COMMUNICATION SYSTEMS (EC)



**Q.57 Directions:** In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

What every tourist must take back from Bhutan is pure honey, especially Putka, “Antibiotic” honey produced \_\_\_(1)\_\_\_ Melipona Bees (stingless bees) a breed found in protected areas \_\_\_(2)\_\_\_ 700 and 1,500 meters above sea level. Due \_\_\_(3)\_\_\_ their small size, they can get larger nutrients \_\_\_(4)\_\_\_ regular honeybees. It has a tangy/sour taste and can \_\_\_(5)\_\_\_ your sore throat in a matter of minutes.

Select the most appropriate option to fill in blank number 5.

- (a) Pacify
- (b) Appear
- (c) Soothe
- (d) Calm

**Q.58 Select the option that expresses the given sentence in passive voice.**

The invigilator is advising the students not to carry calculators into the examination hall.

- (a) The students are being advised by the invigilator not to carry calculators into the examination hall.
- (b) The students have been advised not to carry calculators into the examination hall by the invigilator.
- (c) The students were advised not to carry calculators into the examination hall.
- (d) The students were advised the invigilator not to carry calculators into the examination hall.

**Q.59 Select the option that expresses the given sentence in indirect speech.**

“Everything is going to be alright,” said the doctor.

- (a) The doctor said that everything are going to be alright.
- (b) The doctor said that everything will be alright.
- (c) The doctor said that everything was going to be alright.
- (d) The doctor said that everything is going to be alright.

**Q.60 Select the most appropriate option to substitute the underlined segment in the given sentence.**

If no substitution is required, select ‘No substitution’.

The toy drummer plays the drum if you press the button at the back.

- (a) will play the drum if you will press
- (b) playing the drum if you pressed
- (c) played the drum if you are pressing
- (d) no substitution

**Q.61 The following sentence has been divided into parts. One of them contains an error. Select the part that contains the error from the given options.**

You must avoid riding in a crowded bus / or travelling in a metro / during rush hour / as both are quiet unpleasant experiences.

- (a) as both are quiet unpleasant experiences.
- (b) during rush hour
- (c) or travelling in a metro
- (d) You must avoid riding in a crowded bus

- Q.62** The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Had you / not reached in time, / we will have / lost our lives.

- (a) Had you
- (b) Lost our lives
- (c) Not reached in time
- (d) We will have**

- Q.63** Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.

While washing your hands, rub them together for 20 seconds to remove the microbes on them.

- (a) The microbes on their
- (b) The microbes on these
- (c) The microbes on they
- (d) No substitution**

- Q.64** Select the most appropriate option to fill in the blank.

India is formally moving ahead to \_\_\_\_\_ 21 MIG-29 and 12 Sukhoi-30MKI fighters from Russia along with upgrades of their existing fleets.

- (a) Accomplish
- (b) Achieve
- (c) Advance
- (d) Procure**

- Q.65** Select the most appropriate meaning of the given idiom.

Bang for the buck

- (a) A sorrowful heart
- (b) More value for money**
- (c) Dash against something
- (d) Less value for money

- Q.66** Select the most appropriate synonym of the given word.

Generic

- (a) Specific
- (b) Definite
- (c) Universal**
- (d) Precise

- Q.67** Select the most appropriate meaning of the given idiom.

Raise the bar

- (a) To grow taller
- (b) To set higher goals**
- (c) To win a competition
- (d) To raise the price

- Q.68** Select the option that can be used as a one-word substitute for the given group of words.

A herd or flock of animals being driven in a body

- (a) Crowd
- (b) Cluster
- (c) Throng
- (d) Drove**



## TOPPER'S SPEAK

**AIR  
1**

**Kalpit Agrawal**  
**ELECTRONICS**

### GATE 2020

I am very grateful to whole GATE ACADEMY team for helping me to build my concepts in all the subjects. For my success of AIR-1 there is immense role of Gate Academy. It was great learning & experience with the top most faculties of India. A special thanks to respected Umesh Dhande sir for creating such a wonderful platform for all GATE aspirants and Gurupal Chawla sir for motivating me at the time of failure.

I also want to thank Sujay sir, Saket sir, Das sir and Saurabh Sir for guiding me to take success steps towards my career.

To all the future GATE aspirants I would like to say, never give up on your dreams. Because it is our dreams that keep us alive.

**AIR  
1**

**Rajat Soni**  
**ELECTRONICS**

### GATE 2019

Hello Everyone! I am Rajat Soni. I secured AIR 1 in GATE 2019 in Electronics & Communication Engineering. I have completed my B.Tech in 2018 from NIT Warangal. It was 2017 when I came to know about GATE ACADEMY's YouTube channel. It helped me a lot for my preparation for GATE. Umesh Dhande Sir's YouTube videos on Control Systems really helped me to get a deeper insights in the subjects. Jasuja sir's videos on Digital Electronics and Gurupal sir's videos on Engineering Mathematics were very helpful for the last minute preparation. Also I have enrolled in the GATE ACADEMY's Online Test Series which helped me in analysis of my mistakes before GATE Examination. I owe a lot to GATE ACADEMY for their quality content on YouTube channel and very well designed Online Test Series.

**AIR  
1**

**Arnab Adhikary**  
**ELECTRONICS**

### GATE 2018

I thank Dhande sir for giving a kickstart to my GATE preparation. I was primarily focused on my research work and was not interested in the exam. Just before 4 months of Gate Examination, I came to know about Gate Academy's YouTube channel and in this way I started my preparation. Umesh Sir's video on Control Theory (especially the one on GM and PM) and Analog Circuits (especially Topology Concept and Gain Calculation Shortcuts) were insightful and conceptually sound. Also a lot of tricky questions were asked in the test series offered by Gate Academy and it gave me the necessary confidence for the exam. So I owe a lot to the Gate Academy's YouTube Channel and Gate Academy's test Series for my performance.

**AIR  
1**

**Shivam Singh**  
**ELECTRICAL**

### GATE 2017

I am very thankful to Dhande sir, Vishal sir, Sujay sir, Gurupal sir, Das sir and entire Gate academy team which helped me in building concepts and getting the numerical approach for Gate exam when I started my preparation.

For my success (AIR-1), there are a lot of people who have immense role and Gate Academy is one of them. For the aspiring students, I want to say that like you only I used to think how a topper looks like and now I know that, meaning that everyone has a topper in them you just need to believe in yourself to understand the concept, try to solve new questions through test series and don't act ideal on examination day.

If I can, then YOU WILL!

**Q.69** Select the most appropriate synonym of the given word.

- Regime
- Country
  - Rule
  - Territory
  - Space

**Q.70** Select the INCORRECTLY spelt word.

- Unmanageable
- Wildernesses
- voilence
- exterminated

**Q.71** Select the most appropriate ANTONYM of the given word.

Gradual

- abrupt
- slow
- regular
- gentle

**Q.72** Select the most appropriate option to fill in the blank.

Work and domestic \_\_\_\_\_ made Kajal short-tempered.

- Pressures
- Weights
- Gravities
- Forces

**Q.73** Select the INCORRECTLY spelt word.

- Pieceful
- Creature
- Specified
- Decrease

**Q.74** Select the most appropriate ANTONYM of the given word.

Seize

- Grab
- Catch
- Snatch
- Loosen

**Q.75** Select the option that can be used as a one-word substitute for the given group of words.

A group of three novels or plays, each complete in itself

- Triplet
- Trivet
- Triumvir
- Trilogy

**Q.76** A sentence is given with a phrase highlighted in bold. Which of the phrases given below the sentence should replace it improve the sentence? If the sentence is correct as it is given and no correction is required, select 'No correction required' as your answer.

The **pilot fly the plane** into the thick clouds which created heavy turbulence.

- (a) pilot would have flying the plane
- (b) pilot flew the plane**
- (c) pilot has fly the plane
- (d) no error

**Q.77** A sentence is given with a phrase highlighted in bold. Which of the phrases given below the sentence should replace it improve the sentence? If the sentence is correct as it is given and no correction is required, select 'No correction required' as your answer.

The teenagers vandalized the **statue without thought** about the repercussions.

- (a) statue without thinking**
- (b) statue without had been thinking
- (c) statue without a think
- (d) no error

**Q.78** A sentence is given with a phrase highlighted in bold. Which of the phrases given below the sentence should replace it improve the sentence? If the sentence is correct as it is given and no correction is required, select 'No correction required' as your answer.

Not for **a moment I did** think that I would be trekking in the highlands of Scotland.

- (a) A moment I had
- (b) A moment did i**
- (c) A moment would i
- (d) No error

**Q.79** A sentence is given with a phrase highlighted in bold. Which of the phrases given below the sentence should replace it improve the sentence? If the sentence is correct as it is given and no correction is required, select 'No correction required' as your answer.

Seeing his desperate struggle, the manager **gave him an advice**

- (a) Gave him much advices**
- (b) gave him a lot of advices.
- (c) gave him a bit of advice**
- (d) no error

**Q.80** A sentence is given with a phrase highlighted in bold. Which of the phrases given below the sentence should replace it improve the sentence? If the sentence is correct as it is given and no correction is required, select 'No error' as your answer.

By the time the dictator realized what was happening, violent protests had **already broken out** in parts of the capital.

- (a) Already broken up
- (b) Already broken off
- (c) Already broken
- (d) No error**

**Q.81** Read the passage given below and answer the questions that follow.

Screaming is exhibited by many animals, but no species uses this extreme vocalization in as many different contexts as humans. Though we're pretty good at recognizing a scream when we hear one, the wide variety of screams makes it difficult to pin down what defines them.

To study screams is to probe the fuzzy boundary that separates humans from the rest of the animal kingdom. It is a way to explore our pre-linguistic past. Although we are fully symbolic creatures today, on occasion a trace of our primal selves bubbles to the surface in the form of a scream. Understanding its characteristics could improve the treatment of nonverbal patients, help fight crime, or simply make movies more frightening. But first scientists need to explain what makes a scream a scream.

To that end, researchers at Emory University's Bioacoustics Laboratory recruited 181 volunteers to listen to short recordings of 75 nonverbal human vocalizations, such as screams, laughter, and crying. For each of the 75 sounds, the volunteers were asked to **indicate** whether they thought it was a scream. The researchers then analyzed 28 acoustic signatures of the sounds, such as pitch, frequency, and timbre, to determine which parameters influence the perception of a sound as a scream.

Most people would say that the defining characteristic of a scream is that it is a **focused** loud and high-pitched, but previous scream research suggests otherwise. In 2015, David Poeppel, a neuroscientist at New York University and the Max Planck Institute, led a study to determine the acoustic qualities that differentiate fearful screams from other nonverbal vocalizations. To do this, Poeppel and his colleagues compiled a corpus of screams lifted from YouTube videos and ones recorded in their lab, then asked volunteers to rank them according to how alarming the sound was. Poeppel also imaged the brains of his volunteers as they listened to screams to see how these sounds affected neural activity.

Choose the correct synonym of the word '**indicate**' highlighted in the passage.

- (a) Reject      (b) Show      (c) Discard      (d) Feel

#### **Q.82 Read the passage given below and answer the questions that follow.**

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Choose the correct synonym of the word '**focused**' highlighted in the passage.

- (a) Engrossed      (b) Dejected      (c) Elated      (d) Crushed

#### **Q.83 Read the passage given below and answer the questions that follow.**

Screaming is exhibited by many animals, but no species uses this extreme vocalization in as many different contexts as humans. Though we're pretty good at recognizing a scream when we hear one, the wide variety of screams makes it difficult to pin down what defines them.



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Why is it difficult to pin down what defines a scream

- (a) Screams are not used by humans making it incomprehensible.
- (b) Because screams happen only when we are excited.
- (c) The sheer variety of screams makes it hard.
- (d) Sound produced by a scream falls below the audible frequency.

#### **Q.84 Read the passage given below and answer the questions that follow.**

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As per the given passage to study screams is to?

- (a) Explore our pre-linguistic past.
- (b) Comprehend our primordial existence.
- (c) Understand the evolution of words.
- (d) None of the above

**Q.85 Read the passage given below and answer the questions that follow.**

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Understanding the characteristics of a scream could improve:

- (a) Treatment of nonverbal patients.
- (b) Make movies more frightening
- (c) Help fight crime.
- (d) All of the above

**Q.86 Read the passage given below and answer the questions that follow.**

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What was the aim of David Poeppel's study?

- (a) To determine the acoustic qualities that differentiate fearful screams.
- (b) To analyze the 28 acoustic signature of sounds.
- (c) To probe the boundary that separates humans from animals.
- (d) None of the above

**Q.87 Read the passage given below and answer the questions that follow.**

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Which of the following statement is **false** according to the given passage?

- (a) Most people say that screams are focused, loud and high-pitched
- (b) Volunteers were asked to rank the screams according to how alarming the sound was.
- (c) Fearful screams and non-verbal vocalizations are the same.
- (d) Screaming is exhibited by many animals.

**Q.88** In this question, a sentence has been divided into four parts (A), (B), (C) and (D). Read the sentence to find out whether there is any grammatical error in it. The error if any, will be in one part of the sentence. Mark that part as your answer. If there is no error, the answer is 'No error'. Ignore the error of punctuation if any.

A computer can do (A) some tasks best than (B) a person can (C) as humans often make silly mistakes. (D)

- (a) B
- (b) A
- (c) No error
- (d) D

**Q.89** In this question, a sentence has been divided into four parts (A), (B), (C) and (D). Read the sentence to find out whether there is any grammatical error in it. The error if any, will be in one part of the sentence. Mark that part as your answer. If there is no error, the answer is 'No error'. Ignore the error of punctuation if any.

Since Julie (A) was not hungry,(B) therefore we ate (C) dinner without her.(D)

- (a) C
- (b) A
- (c) B
- (d) No error

**Q.90** In this question, a sentence has been divided into four parts (A), (B), (C) and (D). Read the sentence to find out whether there is any grammatical error in it. The error if any, will be in one part of the sentence. Mark that part as your answer. If there is no error, the answer is ‘No error’. Ignore the error of punctuation if any.

We shook myself (A) dry on the porch (B) and returned to the (C) warmth of the cabin.(D)

- (a) No error
- (b) A
- (c) B
- (d) C

**Q.91** In this question, a sentence has been divided into four parts (A), (B), (C) and (D). Read the sentence to find out whether there is any grammatical error in it. The error if any, will be in one part of the sentence. Mark that part as your answer. If there is no error, the answer is ‘No error’. Ignore the error of punctuation if any.

The pictures (A) were painted by hand, (B) and some them (C) were very beautiful. (D)

- (a) B
- (b) C
- (c) D
- (d) No error

**Q.92** In this question, a sentence has been divided into four parts (A), (B), (C) and (D). Read the sentence to find out whether there is any grammatical error in it. The error if any, will be in one part of the sentence. Mark that part as your answer. If there is no error, the answer is ‘No error’. Ignore the error of punctuation if any.

Two children, (A) brother and sister,(B) were on there way (C) to school.(D)

- (a) B
- (b) C
- (c) D
- (d) No error

**Q.93** In the following question, a sentence is given with four words marked as (A), (B), (C) and (D). These words may or may not be placed in a correct order. Four options with different arrangements of these words have been provided. Mark the option with the correct arrangement as the answer.

We were **arrived(A)** to the **party(B)** and it was almost **over(C)** when we **late(D)**.

- (a) A-B
- (b) C-D
- (c) D-A
- (d) No correction required

**Q.94** In the following question, a sentence is given with four words marked as (A), (B), (C) and (D). These words may or may not be placed in a correct order. Four options with different arrangements of these words have been provided. Mark the option with the correct arrangement as the answer

Her life(A) in the house(B) of the confines(C) became her new normal(D).

- (a) A-D
- (b) B-A
- (c) C-B**
- (d) No correction required

**Q.95** In the following question, a sentence is given with four words marked as (A), (B), (C) and (D). These words may or may not be placed in a correct order. Four options with different arrangements of these words have been provided. Mark the option with the correct arrangement as the answer.

After(A) seeing the terrified(B) shadow, she was really scary(C) and refused to move(D).

- (a) A-B
- (b) C-B**
- (c) D-A
- (d) No correction required

**Q.96** In the following question, a sentence is given with four words marked as (A), (B), (C) and (D). These words may or may not be placed in a correct order. Four options with different arrangements of these words have been provided. Mark the option with the correct arrangement as the answer.

The car accident(A) was horrific, it crushed(B) his dreams and his legs leaving him depressed(C) and in agony(D).

- (a) A-B
- (b) C-A
- (c) D-C
- (d) No correction required**

**Q.97** In the following question, a sentence is given with four words marked as (A), (B), (C) and (D). These words may or may not be placed in a correct order. Four options with different arrangements of these words have been provided. Mark the option with the correct arrangement as the answer.

It took him a lot of time to lack(A) his crippling battle(B) of concentration(C) so that he could finish his work on time(D).

- (a) A-C
- (b) B-A
- (c) D-B**
- (d) No correction required

**Q.98** In the following question, a sentence is given with four words marked as (A), (B), (C) and (D). These words may or may not be placed in a correct order. Four options with different arrangements of these words have been provided. Mark the option with the correct arrangement as the answer.

Martha came(A) to the occasion(B) that a bunch(C) of flowers is a great gift for any conclusion(D).

- (a) A-D
- (b) B-C
- (c) D-B**
- (d) No correction required

**Q.99** The question below has two blanks, each blank indicating that something has been omitted. Choose a set of words for each blank that best fits the meaning of the sentence as a whole.

Satellite data confirm \_\_\_\_\_ on protected lands as Indigenous people fight for their rights and recognition of their \_\_\_\_\_ in conserving forests.

- (a) revolution, destroy
- (b) floating, signal
- (c) incursions, role**
- (d) degrade, performance

**Q.100** The question below has two blanks, each blank indicating that something has been omitted. Choose a set of words for each blank that best fits the meaning of the sentence as a whole.

Tropical cyclones laden with moisture and accumulated energy \_\_\_\_\_ a growing challenge, as they have a propensity to \_\_\_\_\_ heavy damage to lives and property.

- (a) pose, inflict**
- (b) demand, act
- (c) calculate, condemn
- (d) helpful, experience

**Q.101** The question below has two blanks, each blank indicating that something has been omitted. Choose a set of words for each blank that best fits the meaning of the sentence as a whole.

\_\_\_\_\_ in pastoralism, one of the world's most sustainable food systems, could help Spain \_\_\_\_\_ to climate change and revitalize depopulated rural areas.

- (a) Trial, continue
- (b) Rise, adopt**
- (c) Renaming, rush
- (d) Resurgence, adapt**

### Answers :

1.	A	2.	D	3.	A	4.	D	5.	B
6.	D	7.	B	8.	A	9.	C	10.	C
11.	B	12.	B	13.	C	14.	D	15.	A
16.	A	17.	C	18.	A	19.	A	20.	C
21.	A	22.	A	23.	C	24.	D	25.	D
26.	C	27.	A	28.	A	29.	A	30.	B
31.	C	32.	A	33.	A	34.	B	35.	D
36.	D	37.	D	38.	C	39.	A	40.	D
41.	B	42.	B	43.	B	44.	D	45.	C
46.	A	47.	C	48.	D	49.	A	50.	B
51.	D	52.	C	53.	C	54.	C	55.	C
56.	B	57.	C	58.	A	59.	C	60.	D
61.	A	62.	D	63.	D	64.	D	65.	B
66.	C	67.	B	68.	D	69.	B	70.	C
71.	A	72.	A	73.	A	74.	D	75.	D
76.	B	77.	A	78.	B	79.	C	80.	D
81.	B	82.	A	83.	C	84.	A	85.	D
86.	A	87.	C	88.	A	89.	A	90.	B
91.	B	92.	B	93.	C	94.	C	95.	B
96.	D	97.	B	98.	C	99.	C	100.	A
101.	D								





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