

# **SAMPLE TEST PAPER (Pre-Engineering)**

## **Commecs Admission Test (CAT) – 2024**

### **General Instructions**

**Note:** In order to ensure a fair chance to every candidate and to conduct the test efficiently, we need and request your cooperation to carefully follow the instructions given here or given by the instructor conducting the test.

- 1) After the commencement of test you will not be allowed to leave the room for any reason.
- 2) You are required to write your seat number, name and father's name on the top of the rough work sheet.
- 3) Test will consist of 100 questions.
- 4) Duration of the test will be 90 minutes with no negative marking.
- 5) The instructor will tell you when to start and stop your test.
- 6) To ensure fairness, we insist that no one should continue to work even for a second after the instructor has asked to stop the work.
- 7) During the test, do not talk, whisper, or turn your eyes or head away from your own monitor.
- 8) Calculators and cell phones are strictly prohibited.
- 9) At the end of test candidate's status i.e recommended/not recommended for interview along with interview schedule will be displayed on computer screen.
- 10) Any evidence of cheating or non-compliance to the instructions will disqualify you from the test and your name will be removed from the list of candidates for admission.
- 11) Students who do not qualify the CBT will contact Admission Deptt. for further guidance.

### **Instructions for 'MCQ' Section**

- 1) MCQ section contains seven parts.
- 2) **You have exactly 90 minutes to complete 100 MCQs.**
- 3) Each MCQ carries one mark. No marks will be deducted for blank answers.
- 4) You are required to check the correct option only (A, B, C or D) in front of corresponding question as appear on the screen.
- 5) You may use the rough work sheet for your convenience but ensure that the rough work sheet is returned after the test.
- 6) Once announced, you may start your test by attempting any question from any part of the MCQ section.
- 7) You may attempt questions in any order and may move forward or backward.
- 8) If you want to change any of your answer, uncheck your previous answer and check again.

### **Instructions for Essay Sections**

- 1) After Test, recommended candidates will appear for English & Urdu Essays in a class room. Their writing skills will be considered in interview for evaluation of the candidate.
- 2) You will be provided separate sheets for Urdu and English Essays.
- 3) A total of 30 minutes time will be given for the two essays, 15 minutes each.

**Commecs Admission Test (CAT) – Pre-Engineering Group  
Sample Paper – MCQ Section**

**Time 90 Minutes.**

**Total Marks: 100**

**Part-I**

**English Vocabulary**

**No. of Questions: 10**

Identify the correct synonym for the given words and check/select corresponding alphabet on the computer screen.

Q.No.	Question	A	B	C	D
1	BETRAY	Modify	Argue	Deceive	Perceive
2	HAVOC	Favour	Destruction	Deploration	Defeat
...	...	...	...	...	...
10	CASUAL	Careless	Rude	Candid	Vague

**Part-II**

**English Grammar**

**No. of Questions: 10**

The underlined segment of each sentence is incorrect. Your task is to identify the correct replacement for the given segment and check/select corresponding alphabet on the computer screen.

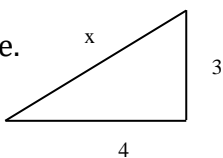
Q.No.	Question	A	B	C	D
11	If the doctor <u>would have reached</u> there on time, he would have saved his life.	would have reached	would reach	had reached	should reach
12	When the phone <u>is ringing</u> , Ali <u>had been reading</u> a story from his book.	is ringing, Ali had been reading	rang, Ali is reading	rang, Ali was reading	had rung, Ali was reading
...	...	...	...	...	...
20	Mrs. Kashif is one of those people <u>who is always willing</u> to help others.	who is always willing	which are always willing	whom are always willing	who are always willing

**Part-III**

**Mathematics**

**No. of Questions: 25**

Identify the correct answer for the given question and check/select corresponding alphabet on the computer screen..

Q.No.	Question	A	B	C	D
21	Find x in the given triangle. 	7	12	4/3	5
22	factors of $x^4+5x^3+6x^2$ is equals to	$x(x+3)(x^2+2)$	$x^2(x+3)(x+2)$	$x^2(x-2)(x-3)$	$x(x^2+3)(x+2)$
...	...	...	...	...	...
45	$-\sin^2 \theta - \cos^2 \theta =$ _____	1	0	-1	None

**Part-IV**

**Physics**

**No. of Questions: 20**

Identify the correct answer for the given question and check/select corresponding alphabet on the computer screen.

Q.No.	Question	A	B	C	D
46	A 30 newton force acts along x-axis, its y-component is _____	Zero N	30N	15 N	-15 N

47	When an object is placed between the pole and principal focus of a concave mirror, the image formed by the mirror is	real, inverted and magnified	virtual, erect and diminished	virtual, inverted and diminished	virtual, erect and magnified
...	...	...	...	...	...
65	The heat energy required to change the state of a substance without any change in temperature is called ____	Specific heat	Latent heat	heat capacity	None

### Part-V

#### Chemistry

**No. of Questions: 15**

Work out the pattern, and identify the next number in the series check/select corresponding alphabet on the computer screen.

Q.No.	Question	A	B	C	D
66	Which of the following acids is inorganic	HCOOH	CH <sub>3</sub> COOH	H <sub>3</sub> PO <sub>4</sub>	COOH) <sub>2</sub>
67	Carbon forms chain compounds. This is known as	Polymerization	Isomerization	Catenation	Oxidation
...	...	...	...	...	...
80	10ml of 4M H <sub>2</sub> SO <sub>4</sub> titrated against NaOH solution prepared by 40g of NaOH / Litre. Find volume of NaOH.	400 ml	4 ml	40 ml	None

### Part-VI

#### General Knowledge

**No. of Questions: 10**

Identify the correct answer for the given question and check/select corresponding alphabet on the computer screen.

Q.No.	Question	A	B	C	D
81	Which of the following crops contributes most to Pakistan's export?	Rice	Cotton	Wheat	Sugarcane
82	How many Surahs are there in the Holy Quran?	313	786	114	30
...	...	...	...	...	...
90	Which sports is known as the "King of Sports"?	Soccer (Football)	Cricket	Hockey	Table Tennis

### Part-VII

#### Urdu

**No. of Questions: 10**

Identify the correct answer for the given question and check/select corresponding alphabet on the computer screen.

Q.No.	Question	A	B	C	D
91	خدائے سخن کسے کہتے ہیں	خواجہ میر درد	مرزا غالب	میر تقی میر	حسرت موہانی
82	درختوں کا جھنڈ، چایوں کا۔۔۔؟	دستہ	گچھا	ڈھیر	انبار
...	...	...	...	...	...
100	ذوق و شوق، نرم و نازک، حسن و۔۔۔؟	کمال	خوابصورتی	زینت	جمال