Department of Civil Engineering Technology

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Programs Offered by the Department of Civil Engineering Technology	
Degree Name	**Degree Details/Eligibility Criteria**
Bachelor of Engineering Technology Civil	The Bachelor of Engineering Technology Civil is of 4-years duration, spread over 8 regular semesters, and consisting of 136 credit hours after completing twelve years of higher secondary school certificate or equivalent. At least, 50% marks in intermediate or equivalent are required for admission.

The test will consist of 100 Multiple Choice Questions, 25 questions each from English, Physics, Math and General Knowledge respectively. The following are sample questions

English (25 Questions)

1. ___ apple a day keeps the doctor away.
A) A
B) An
C) The
D) No article

2. Which sentence is in the past tense?

A) She walks to school.

B) She walking to school.

C) She walked to school.

D) She will walk to school.

3. Select the correct form of the verb:

He ___ TV every evening.
A) watch
B) watching
C) watches
D) watched

4. What is the plural of "child"?

A) Childs

B) Childes

C) Children

D) Childer

5. Identify the adjective in this sentence:

The red car is fast.
A) The
B) Car
C) Red
D) Is

6. Which word is a pronoun?

A) John
B) He
C) Run
D) Book

7. Choose the correct preposition:

The cat is ___ the table.
A) In
B) On
C) At
D) With

8. Fill in the blank with the correct verb:

She ___ very happy today.
A) Are
B) Is
C) Am
D) Be

9. Which of the following is a question word?

A) Walk
B) Eat
C) Who
D) Tall

10. What is the past tense of "go"?

A) Go
B) Goed
C) Went
D) Gone

11. Which is a correct sentence?

A) I am plays football.
B) I playing football.
C) I play football.
D) I is play football

12. Which is a noun?

A) Quickly
B) Beautiful
C) Book
D) Running

13. Choose the correct option:

They ___ to the market yesterday.
A) Go
B) Gone
C) Went
D) Going

14. What is the opposite of "cold"?

A) Cool
B) Chill
C) Hot
D) Warm

15. Which sentence uses correct punctuation?

A) where is your book
B) Where is your book
C) Where is your book?
D) Where is your book.

16. What type of sentence is this: "Open the door."

A) Statement
B) Question
C) Exclamation
D) Command

17. What is the subject in the sentence: "Tom runs fast"?

A) Runs
B) Fast
C) Tom
D) None

18. Which sentence is negative?

A) She is my sister.
B) She is not my sister.
C) Is she my sister?
D) She will be my sister.

19. Choose the correct helping verb:

They ___ going to school.
A) Am
B) Is
C) Are
D) Be

20. Which of the following is a complete sentence?

A) Playing in the park.
B) The boy is playing.
C) When he ran.
D) After the rain.

21. What is the synonym of the word 'Happy'?

A) Sad
B) Angry
C) Joyful
D) Tired

22. Pick the correct form: "He ___ playing football every weekend."
A) is
B) are
C) was
D) were

23. Choose the correct meaning of the idiom: "Break the ice."
   A) To cool down
   B) To start a conversation
   C) To break something
   D) To relax

24. Identify the part of speech of the underlined word: "He ran quickly."
   (a) Noun
   (b) Verb
   (c) Adjective
   (d) Adverb

25. Choose the correct synonym of the word 'Benevolent':
   (a) Cruel
   (b) Kind
   (c) Lazy
   (d) Angry

Physics (25 Questions)

1. **Waves transfer:**

   (a) Energy

   (b) Frequency

   (c) Wavelength

   (d) Velocity

2. **Which of the following is a method of energy transfer?**

   (a) Conduction

   (b) Radiation

   (c) Wave motion

   (d) all of these

3. **The relation between v, f and λ of a wave is**

   (a) $V f = \lambda$

   (b) $F \lambda = v$

   (c) $V \lambda = f$

   d) $V = \lambda / f$

4. **The SI unit of Heat is   ?**

   (a) Watt

   (b) Volt

   (c) Joule

   (d) Newton

5. **First law of motion gives the definition of .**

   (a) rest

   (b) motion

   (c) velocity

   (d) force

6. The force of gravity on an object is called:

A) Mass
B) Weight
C) Pressure
D) Friction

7. Which of the following is a scalar quantity?

A) Force
B) Velocity
C) Speed
D) Acceleration

8. The unit of electric current is:

A) Ohm
B) Ampere
C) Volt
D) Watt

9. The rate of change of velocity is called:

A) Speed
B) Force
C) Acceleration
D) Displacement

10. Which device is used to measure electric current?

A) Voltmeter
B) Ammeter
C) Thermometer
D) Galvanometer

11. Which law explains action and reaction forces?

A) First law of motion
B) Second law of motion
C) Third law of motion
D) Law of inertia

12. Acceleration due to gravity on Earth is approximately:

A) 10 m/s²
B) 9.8 m/s²
C) 8 m/s²
D) 9.2 m/s²

13. Sound travels fastest in:

A) Air
B) Water
C) Vacuum
D) Steel

14. Instrument used to measure temperature:

A) Barometer
B) Thermometer
C) Hygrometer
D) Manometer

15. Energy stored in a stretched spring is:

A) Kinetic energy
B) Thermal energy
C) Potential energy
D) Chemical energy

16. The SI unit of force is:

A) Joule
B) Newton
C) Watt
D) Pascal

17. A device that converts electrical energy to mechanical energy is:

A) Generator
B) Motor
C) Transformer
D) Battery

18. The distance-time graph of an object at rest is a:

A) Sloped line
B) Curved line
C) Horizontal line
D) Vertical line

19. Which of the following is not a form of energy?

A) Heat
B) Light
C) Mass
D) Sound

20. Which quantity does not change when light enters from air to water?

A) Speed
B) Wavelength
C) Direction
D) Frequency

21. Which of the following is a good conductor of electricity?

A) Wood
B) Plastic
C) Copper
D) Glass

22. What does the slope of a distance-time graph represent?

A) Speed
B) Acceleration
C) Force
D) Distance

23. The boiling point of water at sea level is:

A) 0°C
B) 50°C
C) 100°C
D) 212°C

24. Which state of matter has a definite volume but no definite shape?

A) Solid
B) Liquid
C) Gas
D) Plasma

25. A mirror that forms a magnified image is usually:

A) Plane mirror
B) Convex mirror
C) Concave mirror
D) Flat mirror

Mathematics (25 Questions)

1. Standard form of quadratic equation is:

A) $Bx + c = 0$, $b \neq 0$
B) $ax^2 + bx + c = 0$, $a \neq 0$
C) $ax^2 = bx$, $a \neq 0$
D) $ax^2 = 0$, $a \neq 0$

2. Two linear factors of $x^2 - 15x + 56$ are:

A) $(x - 7)$ and $(x + 8)$
B) $(x + 7)$ and $(x - 8)$
C) $(x - 7)$ and $(x - 8)$
D) $(x + 7)$ and $(x + 8)$

3. If $y = x - 1$ and $3y = 5$, the value of x is:

A) 5/3
B) -5/3
C) -3/5
D) 3/5

4. In a ratio a : b, a is called:

A) Relation
B) Antecedent
C) Consequent
D) None of these

5. Find the value of x in $7x = 49$:

A) 5
B) 6
C) 7
D) 8

6. What is 25% of 200?

A) 25
B) 50
C) 75
D) 100

7. Which of the following numbers is a prime number?

A) 9
B) 15
C) 17
D) 21

8. Simplify: 6 + 3 × 2

A) 12
B) 18
C) 15
D) 9

9. What is the square root of 144?

A) 10
B) 11
C) 12
D) 13

10. What is the perimeter of a rectangle with length 6 cm and width 4 cm?

A) 10 cm
B) 12 cm
C) 20 cm
D) 24 cm

11. Solve: 3x − 4 = 11

A) x = 5
B) x = 4
C) x = 3
D) x = 6

12. A triangle has angles 60°, 60°, and 60°. It is called:

A) Scalene
B) Isosceles
C) Equilateral
D) Right-angled

13. If 5 pens cost $15, what is the cost of 1 pen?

A) $1
B) $2
C) $3
D) $4

14. Find the next number: 2, 4, 8, 16, ?

A) 18
B) 20
C) 32
D) 24

15. The value of π (pi) is approximately:

A) 2.14
B) 3.14
C) 3.41
D) 2.31

16. Which of the following is an even number?

A) 13
B) 17
C) 22
D) 29

17. What is the HCF of 12 and 18?

A) 6
B) 12
C) 3
D) 9

18. A number divisible by both 3 and 5 is also divisible by:

A) 8
B) 10
C) 15
D) 20

19. What is the place value of 7 in 672?

A) 7
B) 70
C) 700
D) 2

20. Convert 0.75 into a fraction:

A) 3/4
B) 1/2
C) 1/4
D) 2/3

21. 4³ equals:

A) 8
B) 16
C) 64
D) 81

22. What is the area of a square with side 5 cm?

A) 10 cm²
B) 15 cm²
C) 20 cm²
D) 25 cm²

23. What is 1/2 of 3/4?

A) 3/8
B) 1/4
C) 1/8
D) 2/4

24. Solve: 10 − (3 + 2)

A) 5
B) 6
C) 4
D) 3

25. The product of any number and zero is:

A) The number itself
B) Zero
C) One
D) Infinity

General Knowledge (25 Questions)

1. Kashmir Day is observed in Pakistan on:

A) 1st May
B) 5th February
C) 23rd March
D) 11th September

2. Longest serving Prime Minister of Pakistan:

A) Imran Khan
B) Yousuf Raza Gillani
C) M. Ali Bogra
D) Liaquat Ali Khan
s

3. What does CPEC stand for?

A) China Pakistan Electrical Coal
B) China Pakistan Economic Corridor
C) China Pakistan Electronics Corporation
D) China Portugal Economical Corporation

4. When did Quaid-e-Azam join the All India Muslim League?

A) 1911
B) 1912
C) 1913
D) 1914

5. What is the national animal of Pakistan?

A) Goat
B) Markhor
C) Camel
D) Leopard

6. The national flower of Pakistan is:

A) Lily
B) Jasmine
C) Rose
D) Sunflower

7. Which is the highest military award in Pakistan?

A) Sitara-e-Imtiaz
B) Tamgha-e-Shujaat
C) Nishan-e-Haider
D) Hilal-e-Pakistan

8. First woman Prime Minister of Pakistan:

A) Fatima Jinnah
B) Hina Rabbani Khar
C) Benazir Bhutto
D) Maryam Nawaz

9. Capital of Pakistan is:

A) Karachi
B) Lahore
C) Islamabad
D) Peshawar

10. National sport of Pakistan is:

A) Cricket
B) Hockey
C) Football
D) Squash

11. Pakistan was created on:

A) 14th August 1946
B) 14th August 1947
C) 15th August 1947
D) 14th August 1950

12. Who was the first Governor-General of Pakistan?

A) Liaquat Ali Khan
B) Quaid-e-Azam
C) Ayub Khan
D) Khawaja Nazimuddin

13. Who wrote the national anthem of Pakistan?

A) Hafeez Jullundhri
B) Allama Iqbal
C) Faiz Ahmed Faiz
D) Ahmad Faraz

14. The largest province by area in Pakistan is:

A) Punjab
B) Sindh
C) Balochistan
D) Khyber Pakhtunkhwa

15. Currency of Pakistan is:

A) Dollar
B) Taka
C) Rupee
D) Dinar

16. National poet of Pakistan is:

A) Ahmed Faraz
B) Hafeez Jullundhri
C) Allama Iqbal
D) Faiz Ahmed Faiz

17. The Indus River originates in:

A) Pakistan
B) India
C) China
D) Nepal

18. Total number of provinces in Pakistan:

A) 3
B) 4
C) 5
D) 6

19. The largest city of Pakistan is:

A) Lahore
B) Islamabad
C) Peshawar
D) Karachi

20. National language of Pakistan is:

A) Urdu
B) English
C) Punjabi
D) Sindhi

21. Who gave the title of Quaid-e-Azam to Muhammad Ali Jinnah?

A) Allama Iqbal
B) Mahatma Gandhi
C) Maulana Shaukat Ali
D) Mian Ferozuddin

22. Which is the highest peak in Pakistan?

A) Tirich Mir
B) Nanga Parbat
C) Mount Everest
D) K2

23. The current national assembly of Pakistan is:

A) 13th
B) 14th
C) 15th
D) 16th

24. Who was the first President of Pakistan?

A) Ayub Khan
B) Iskander Mirza
C) Zulfikar Ali Bhutto
D) Ghulam Muhammad

25. What is the national tree of Pakistan?

A) Pine
B) Neem
C) Deodar
D) Banyan