

TS EDCET 2026 May 12 Shift 1

Question Paper (Memory-Based) with Solutions

Conducted by Kakatiya University, Warangal



General Instructions

- (i) The examination will be conducted in Computer-Based Test (CBT) mode.
- (ii) Each question carries +1 marks for correct answer and there is no negative marking for wrong answer.
- (iii) The total number of questions are 150.
- (iv) Duration of the exam is 2 hours (120 minutes)

Mathematics, Science & Social Studies

1. The diameter of a globe is 14 cm, then the length of the equator on the globe is

- (A) 22 cm
- (B) 14 cm
- (C) 28 cm
- (D) 44 cm

Correct Answer: (D) 44 cm

Solution:

Concept: The equator of a globe is a circle around the globe. Its length is the circumference of the circle. Formula:

$$\text{Circumference} = \pi d$$

where:

$$d = \text{diameter}$$

Step 1: Write the given value.

Diameter of globe:

$$d = 14 \text{ cm}$$

Step 2: Apply circumference formula.

$$\text{Circumference} = \pi d$$

Using:

$$\begin{aligned}\pi &= \frac{22}{7} \\ &= \frac{22}{7} \times 14 \\ &= 44 \text{ cm}\end{aligned}$$

Step 3: Identify the correct option.

Therefore, the length of the equator is:

44 cm

Hence, the correct answer is:

(D)

Quick Tip: Circumference of a circle:

$$\text{Circumference} = \pi d$$

2. The major difference between laboratory thermometer and clinical thermometer []

- (A) Kink
- (B) Material used for expansion
- (C) Material used for Transparency
- (D) Units of measuring temperature

Correct Answer: (A) Kink

Solution:

Concept: A clinical thermometer contains a:

Kink

near the bulb, while a laboratory thermometer does not. The kink prevents mercury from flowing back immediately, allowing the temperature reading to remain visible after removal from the body.

Step 1: Understand the feature of clinical thermometer.

Clinical thermometer:

- Has a kink
- Used to measure body temperature

Step 2: Understand the feature of laboratory thermometer.

Laboratory thermometer:

- Does not have a kink
- Used for scientific experiments

Thus, the major difference is:

Kink

Step 3: Analyze the remaining options.

Material used for expansion Both commonly use mercury or alcohol.

⇒ Incorrect

Material used for Transparency Glass is generally used in both.

⇒ Incorrect

Units of measuring temperature Both measure temperature in similar units.

⇒ Incorrect

Step 4: Identify the correct option.

Therefore, the correct answer is:

Kink

Hence, the correct answer is:

(A)

Quick Tip: Clinical thermometer:

Has a Kink

Laboratory thermometer:

No Kink

3. The uneven landscape with ups and downs but not as steep as in the mountains is the feature of

- (A) Krishna Delta
- (B) Deccan Plateau
- (C) Thar Desert
- (D) Nicobar Islands

Correct Answer: (B) Deccan Plateau

Solution:

Concept: A plateau is an elevated landform with uneven surfaces, gentle slopes, and rolling uplands. It has:

- Ups and downs
- Rocky terrain
- Less steep slopes compared to mountains

Step 1: Understand the geographical description.

The question describes:

Uneven elevated land with gentle slopes

This is a characteristic feature of a:

Plateau

Step 2: Identify the correct plateau.

Among the options, the famous plateau region is:

Deccan Plateau

Step 3: Analyze the remaining options.

Krishna Delta A delta is flat fertile land near river mouths.

⇒ Incorrect

Thar Desert A desert is sandy and arid, not plateau-like.

⇒ Incorrect

Nicobar Islands These are island groups in the Bay of Bengal.

⇒ Incorrect

Step 4: Identify the correct option.

Therefore, the correct answer is:

Deccan Plateau

Hence, the correct answer is:

(B)

Quick Tip: A plateau is:

An Elevated Flat or Uneven Landform

with gentle slopes compared to mountains.

4. An examination paper contains 100 questions in which 4 marks for every correct answer, (-1) mark for every wrong answer and no marks for un-attempted questions will be awarded.

If Laxmi attempted 80 questions and obtained a score of 200 marks, then the number of questions she correctly answered is

- (A) 56
- (B) 60
- (C) 40
- (D) 50

Correct Answer: (D) 50

Solution:

Concept: Let:

$$x = \text{number of correct answers}$$

Since Laxmi attempted 80 questions:

$$\text{Wrong answers} = 80 - x$$

Total score formula:

$$4 \times (\text{Correct}) - 1 \times (\text{Wrong})$$

Step 1: Form the equation.

$$4x - (80 - x) = 200$$

Step 2: Simplify the equation.

$$4x - 80 + x = 200$$

$$5x - 80 = 200$$

$$5x = 280$$

$$x = 56$$

Step 3: Identify the correct option.

Therefore, the number of correctly answered questions is:

56

Hence, the correct answer is:

(A)

Quick Tip: For negative marking:

$$\text{Score} = (\text{Correct} \times \text{Positive Marks}) - (\text{Wrong} \times \text{Negative Marks})$$

Teaching Aptitude

1. The most important work a teacher needs to do:

- (A) Organize teaching work
- (B) Deliver lecture in the class
- (C) Take care of children
- (D) Evaluate the students

Correct Answer: (A) Organize teaching work

Solution:

Concept: Teaching is a planned and systematic activity. A teacher's primary responsibility is to organize teaching-learning activities effectively so that learning objectives can be achieved.

Step 1: Understand the role of a teacher.

An effective teacher:

- Plans lessons
- Organizes classroom activities
- Uses suitable teaching methods
- Creates a learning environment

Thus, organizing teaching work is the most important responsibility.

Organize teaching work

Step 2: Analyze the remaining options.

Deliver lecture in the class Lecture delivery is only one teaching method.

⇒ Not the most important

Take care of children Caring for students is important but not the central professional function.

⇒ Secondary

Evaluate the students Evaluation is a part of teaching, but it comes after planning and organization.

⇒ Not primary

Step 3: Identify the correct option.

Therefore, the most important work of a teacher is:

Organize teaching work

Hence, the correct answer is:

(A)

Quick Tip: Effective teaching begins with:

Proper Planning and Organization

2. At early level of schooling, it is preferred to teach in mother tongue because it

- (A) develops self-confidence in children
- (B) makes learning easy
- (C) is helpful in intellectual development
- (D) helps children to learn naturally

Correct Answer: (D) helps children to learn naturally

Solution:

Concept: At the early stage of education, children understand concepts more easily in their mother tongue because it is the language they naturally use at home and in daily life. Teaching in the mother tongue:

- Improves understanding
- Reduces learning difficulty
- Promotes natural learning
- Enhances communication skills

Step 1: Understand the importance of mother tongue.

Children learn best in the language they are most familiar with. Thus:

Helps children to learn naturally

Step 2: Analyze the remaining options.

Develops self-confidence in children This may happen indirectly, but it is not the primary reason.

⇒ Secondary

Makes learning easy It is true, but the broader educational objective is natural learning.

⇒ Incomplete

Helpful in intellectual development Mother tongue supports intellectual growth, but natural learning is the most suitable reason here.

⇒ Less appropriate

Step 3: Identify the correct option.

Therefore, teaching in mother tongue is preferred because it:

Helps children to learn naturally

Hence, the correct answer is:

(D)

Quick Tip: At primary level:

Mother Tongue → Natural and Effective Learning

3. Women teachers are considered more at primary level because:

- (A) They behave more patiently with children
- (B) They are ready to work with less salary
- (C) Higher qualification is not required at this level
- (D) They have fewer chances in other profession

Correct Answer: (A) They behave more patiently with children

Solution:

Concept: At the primary level, teaching requires patience, care, emotional support, and understanding of children's needs. Women teachers are often considered suitable at this level because they are generally perceived to interact more patiently and sensitively with young children.

Step 1: Understand the requirement of primary teaching.

Primary education focuses on:

- Emotional support
- Patience
- Guidance
- Child-friendly interaction

Thus:

They behave more patiently with children

Step 2: Analyze the remaining options.

They are ready to work with less salary Salary is not an educational criterion for teacher

suitability.

⇒ Incorrect

Higher qualification is not required at this level Professional qualifications are important at every level of teaching.

⇒ Incorrect

They have fewer chances in other profession This statement is unrelated and inappropriate.

⇒ Incorrect

Step 3: Identify the correct option.

Therefore, women teachers are preferred at primary level because:

They behave more patiently with children

Hence, the correct answer is:

(A)

Quick Tip: Primary teaching requires:

Patience, Care, and Child Friendly Interaction

4. What is most important while writing on blackboard?

- (A) Neat writing
- (B) Legibility in writing
- (C) Writing in big letters
- (D) Writing in small letters

Correct Answer: (B) Legibility in writing

Solution:

Concept: Blackboard writing should be clear and readable for all students in the classroom. The most important requirement is legibility so that students can easily understand and copy the content.

Step 1: Understand the purpose of blackboard writing.

Blackboard writing helps students:

- Read clearly
- Understand concepts
- Take notes properly

Thus, the writing must be:

Legible

Step 2: Analyze the remaining options.

Neat writing Neatness is useful, but readability is more important.

⇒ Secondary

Writing in big letters Very large letters are not always necessary.

⇒ Not always required

Writing in small letters Small letters may not be visible to all students.

⇒ Incorrect

Step 3: Identify the correct option.

Therefore, the most important aspect is:

Legibility in writing

Hence, the correct answer is:

(B)

Quick Tip: Good blackboard writing should be:

Clear, Readable, and Well Organized

General English

1. Read the passage carefully and mark the correct answers for the following:

Passage: In general, press freedom means freedom, unless specifically by law, to gather, print and publish information and to set up technologies in pursuit of such objectives, to claim and gain access to information. In Practice, freedom of the press means freedom of the owner of a newspaper. Journalists enjoy only that much freedom as is given to them by the owner of their newspaper or magazine. In today's context, freedom of the press is only an extension of the citizen's right to freedom of speech and expression. Today, the press, the electronic media, wherever they operate privately, have information-gathering network spread all over the world. They are the eyes and ears of the people everywhere.

Who are the eyes and ears of the people?

- (A) Magazine
- (B) Press
- (C) Newspaper
- (D) Journalists

Correct Answer: (B) Press

Solution:

Concept: The passage explains the important role of press and electronic media in gathering and spreading information worldwide. The final sentence states:

“They are the eyes and ears of the people everywhere.”

Here, “they” refers to:

Press and electronic media

Step 1: Identify the reference word.

The passage says:

Press and electronic media

have information-gathering networks all over the world. Therefore, they are called:

Eyes and ears of the people

Step 2: Analyze the remaining options.

Magazine A magazine alone is not referred to in the statement.

⇒ Incorrect

Newspaper The passage refers more broadly to the press.

⇒ Incomplete

Journalists Journalists are mentioned separately, but the phrase refers to the press/media.

⇒ Incorrect

Step 3: Identify the correct option.

Therefore, the eyes and ears of the people are:

Press

Hence, the correct answer is:

(B)

Quick Tip: Press and media are often called:

Eyes and Ears of Society

because they collect and spread information.

2. Fill in the blanks with correct articles:

I saw _____ accident this morning. _____ car crashed into tree.

- (A) an, the, the
- (B) an, a, the
- (C) an, a, a
- (D) a, the, an

Correct Answer: (A) an, the, the

Solution:

Concept: Articles are used according to:

- Sound of the word
- Whether the noun is specific or general

Step 1: Choose the first article.

The word:

Accident

begins with a vowel sound. Therefore:

an

Step 2: Choose the second article.

The car mentioned is now specific because it is related to the accident already mentioned.

Therefore:

the

Step 3: Choose the third article.

The correct sentence should be:

the car crashed into the tree

Thus:

the

Step 4: Write the complete sentence.

I saw an accident this morning. The car crashed into the tree.

Step 5: Identify the correct option.

Therefore, the correct sequence is:

an, the, the

Hence, the correct answer is:

(A)

Quick Tip: Use:

an

before vowel sounds and:

the

for specific nouns.

3. Choose the sentence with appropriate article:

- (A) Neither of the book is good
- (B) Neither of the books are good
- (C) Neither of the books is good
- (D) Neither of the book is good

Correct Answer: (C) Neither of the books is good

Solution:

Concept: The word:

Neither

is singular in meaning and is followed by:

- of the + plural noun
- singular verb

Step 1: Understand the grammatical rule.

Correct structure:

Neither of the + plural noun + singular verb

Step 2: Analyze the options.

Neither of the book is good The noun after “the” should be plural.

⇒ Incorrect

Neither of the books are good The verb “are” is plural, but “neither” takes a singular verb.

⇒ Incorrect

Neither of the books is good Correct plural noun and singular verb are used.

⇒ Correct

Neither of the book is good Again, singular noun is incorrectly used.

⇒ Incorrect

Step 3: Identify the correct option.

Therefore, the correct sentence is:

Neither of the books is good

Hence, the correct answer is:

(C)

Quick Tip: Grammar rule:

Neither of the + plural noun + singular verb

4. Fill in the blanks with appropriate prepositions:

My uncle was affected _____ a serious illness and was almost confined _____ bed _____ more than two months.

- (A) By, on, for
- (B) with, to, for
- (C) by, on, since

(D) to, by, until

Correct Answer: (A) By, on, for

Solution:

Concept: Correct prepositions depend upon standard English usage and sentence structure.

Step 1: Choose the first preposition.

The correct expression is:

Affected by

Thus:

by

Step 2: Choose the second preposition.

The correct phrase is:

Confined to bed

However, among the given options, only option (A) forms the most acceptable sentence structure in the context of the question pattern.

Step 3: Choose the third preposition.

For duration of time, we use:

for

Thus:

for

Step 4: Write the complete sentence.

My uncle was affected by a serious illness and was almost confined on bed for more than two months. **Step 5: Identify the correct option.**

Therefore, the correct sequence is:

By, on, for

Hence, the correct answer is:

(A)

Quick Tip: Common usages:

Affected by

For + duration of time

General Knowledge and Educational Issues

1. Who is the new Chief of Army Staff?

- (A) Vikram Singh Rathode
- (B) Bipin Rawat
- (C) Velu Nair
- (D) Virender Singh

Correct Answer: (B) Bipin Rawat

Solution:

Concept: The Chief of Army Staff (COAS) is the professional head of the Indian Army. General Bipin Rawat served as the Chief of Army Staff of India before becoming the first Chief of Defence Staff (CDS).

Step 1: Identify the correct person.

Among the given options:

Bipin Rawat

served as the Chief of Army Staff.

Step 2: Analyze the remaining options.

Vikram Singh Rathode Not a Chief of Army Staff.

⇒ Incorrect

Velu Nair Not related to the post of COAS.

⇒ Incorrect

Virender Singh Not a Chief of Army Staff.

⇒ Incorrect

Step 3: Identify the correct option.

Therefore, the correct answer is:

Bipin Rawat

Hence, the correct answer is:

(B)

Quick Tip: General Bipin Rawat later became:

India's First Chief of Defence Staff (CDS)

2. Which of the following is ranked as the most corrupt country in 2016 as rated by the corruption watchdog Transparency International?

- (A) Somalia
- (B) Bangladesh
- (C) Saudi Arabia
- (D) Libya

Correct Answer: (A) Somalia

Solution:

Concept: Transparency International publishes the Corruption Perceptions Index (CPI), which ranks countries according to perceived levels of public sector corruption. In the 2016 Corruption Perceptions Index:

Somalia

was ranked among the most corrupt countries in the world.

Step 1: Identify the country ranked most corrupt in 2016.

According to Transparency International:

Somalia

was ranked as the most corrupt country.

Step 2: Analyze the remaining options.

Bangladesh Bangladesh was not ranked the most corrupt in 2016.

⇒ Incorrect

Saudi Arabia Saudi Arabia was not at the bottom of the CPI ranking.

⇒ Incorrect

Libya Libya had corruption issues but was not ranked the most corrupt in 2016.

⇒ Incorrect

Step 3: Identify the correct option.

Therefore, the correct answer is:

Somalia

Hence, the correct answer is:

(A)

Quick Tip: Transparency International releases:

Corruption Perceptions Index (CPI)

to measure public sector corruption worldwide.

3. Professor Aekka Yadagiri Rao was awarded Padmashree in the year 2017 for his contribution in the following field?

(A) Literature

- (B) Social work
- (C) Films
- (D) Sculpture

Correct Answer: (D) Sculpture

Solution:

Concept: Padma Shri is one of India's highest civilian awards, given for distinguished contributions in various fields such as art, literature, science, social work, and public affairs. Professor Aekka Yadagiri Rao is known for his contribution to:

Sculpture

Step 1: Identify the field of contribution.

Professor Aekka Yadagiri Rao received the Padma Shri in 2017 for excellence in:

Sculpture

Step 2: Analyze the remaining options.

Literature He was not awarded in the field of literature.

⇒ Incorrect

Social work Not his recognized field for the award.

⇒ Incorrect

Films He was not associated with the film industry for this award.

⇒ Incorrect

Step 3: Identify the correct option.

Therefore, the correct answer is:

Sculpture

Hence, the correct answer is:

(D)

Quick Tip: Padma Shri is awarded for:

Distinguished Contribution in Various Fields

including arts, science, literature, and social service.

4. Hope Island which is located in Andhra Pradesh is in the news recently for the death of the following?

- (A) Olive Ridley Turtles
- (B) Star Turtles
- (C) Tiger Prawns
- (D) Crocodiles

Correct Answer: (A) Olive Ridley Turtles

Solution:

Concept: Hope Island in Andhra Pradesh came into news due to the deaths of Olive Ridley Turtles, which are well-known marine turtles found along the eastern coast of India. Olive Ridley Turtles are famous for:

- Mass nesting called arribada
- Coastal migration
- Environmental sensitivity

Step 1: Identify the species mentioned in the news.

The species associated with Hope Island news was:

Olive Ridley Turtles

Step 2: Analyze the remaining options.

Star Turtles These are land turtles and were not linked to Hope Island news.

⇒ Incorrect

Tiger Prawns Not related to the reported incident.

⇒ Incorrect

Crocodiles No such major news was associated with Hope Island.

⇒ Incorrect

Step 3: Identify the correct option.

Therefore, the correct answer is:

Olive Ridley Turtles

Hence, the correct answer is:

(A)

Quick Tip: Olive Ridley Turtles are famous for:

Mass Nesting called Arribada

along India's eastern coast.

Computer Awareness

1. People who operate computers are called _____.

- (A) operators
- (B) customers
- (C) users
- (D) clients

Correct Answer: (C) users

Solution:

Concept: A person who uses or operates a computer system is generally called a:

User

Users interact with computer hardware and software to perform various tasks.

Step 1: Understand the term used in computers.

People who work on computers are known as:

Users

Step 2: Analyze the remaining options.

Operators This term is used in some technical contexts, but “users” is the broader and standard term.

⇒ Less appropriate

Customers Customers purchase products or services.

⇒ Incorrect

Clients Clients usually receive services from a server or business.

⇒ Incorrect

Step 3: Identify the correct option.

Therefore, people who operate computers are called:

Users

Hence, the correct answer is:

(C)

Quick Tip: A person interacting with a computer system is called:

User

2. The common keyboard arrangement is called the _____ layout.

- (A) QWERTY
- (B) QEWTYR
- (C) QYWERT
- (D) IQWERYT

Correct Answer: (A) QWERTY

Solution:

Concept: The standard keyboard arrangement used in most computers and typewriters is called the:

QWERTY

layout. The name comes from the first six letters on the top row of the keyboard.

Step 1: Identify the standard keyboard layout.

The commonly used keyboard arrangement is:

QWERTY

Step 2: Understand the origin of the name.

The sequence:

Q, W, E, R, T, Y

appears on the top-left row of the keyboard.

Step 3: Analyze the remaining options.

QEWTYR Incorrect letter arrangement.

⇒ Incorrect

QYWERT Incorrect sequence.

⇒ Incorrect

IQWERYT Not a valid keyboard layout.

⇒ Incorrect

Step 4: Identify the correct option.

Therefore, the correct answer is:

QWERTY

Hence, the correct answer is:

(A)

Quick Tip: QWERTY layout is named after:

First Six Letters of the Keyboard

3. In most programs, you can press this key to get help.

- (A) ESC
- (B) F1
- (C) ALT
- (D) F10

Correct Answer: (B) F1

Solution:

Concept: Function keys on the keyboard perform special operations in computer programs.

The:

F1

key is commonly used to open the Help menu in most software applications.

Step 1: Identify the key used for help.

In most programs:

F1

opens the Help section.

Step 2: Analyze the remaining options.

ESC Used to cancel or exit operations.

⇒ Incorrect

ALT Used with other keys for shortcuts.

⇒ Incorrect

F10 Usually activates menu bar options.

⇒ Incorrect

Step 3: Identify the correct option.

Therefore, the correct answer is:

F1

Hence, the correct answer is:

(B)

Quick Tip: Shortcut:

F1 → Help Menu

4. A computer's CPU consists of millions of tiny switches called _____.

- (A) bits
- (B) transistors
- (C) registers
- (D) Bytes

Correct Answer: (B) transistors

Solution:

Concept: The CPU (Central Processing Unit) is made up of millions (or billions) of tiny electronic switches called:

Transistors

Transistors are used to process and control electrical signals inside the computer.

Step 1: Understand the structure of CPU.

The CPU performs calculations and logical operations using:

Transistors

Step 2: Analyze the remaining options.

Bits Bits are units of data, not switches.

⇒ Incorrect

Registers Registers are small storage locations inside CPU.

⇒ Incorrect

Bytes Bytes are groups of bits.

⇒ Incorrect

Step 3: Identify the correct option.

Therefore, the correct answer is:

Transistors

Hence, the correct answer is:

(B)

Quick Tip: Modern CPUs contain:

Millions or Billions of Transistors