

Roll no: 202501100500035

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HTML CODE:

```
<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8" />
<meta name="viewport" content="width=device-width,initial-scale=1" />
<title>Clock & Today's Date</title>
<style>
:root{
--bg:#0f1724;
--card:#0b1220;
--accent:#6bd3ff;
--muted:#9aa6b2;
--glass: rgba(255,255,255,0.03);
font-family: Inter, system-ui, -apple-system, "Segoe UI", Roboto, Arial;
color-scheme: dark;
}
body{
margin:0;
min-height:100vh;
display:flex;
align-items:center;
justify-content:center;
background: linear-gradient(180deg,#071025 0%, #091628 100%);
color:#e6eef6;
padding:28px;
}
.clock-card{
background: linear-gradient(180deg, rgba(255,255,255,0.02), rgba(255,255,255,0.01));
border-radius:14px;
padding:22px;
box-shadow: 0 10px 40px rgba(2,6,23,0.6);
width: min(520px, 96%);
text-align:center;
}
.time{
font-size:48px;
```

```
font-weight:800;
letter-spacing:1px;
margin:6px 0;
}

.ampm{
    font-size:14px;
    vertical-align:super;
    margin-left:6px;
    font-weight:700;
    color:var(--accent);
}

.date{
    font-size:18px;
    color:var(--muted);
    margin-top:6px;
}

.tz{
    margin-top:10px;
    font-size:13px;
    color:var(--muted);
}

/* small responsive adjustments */

@media (max-width:420px){
    .time{font-size:36px}
    .date{font-size:16px}
}

</style>

</head>

<body>

<div class="clock-card" role="region" aria-label="Current time and date">
    <div style="font-weight:700;font-size:14px;letter-spacing:0.6px;">Current Time</div>
    <div id="time" class="time" aria-live="polite">--:-- <span class="ampm">--</span></div>

    <div id="date" class="date" aria-live="polite">Loading date...</div>
    <div id="tz" class="tz"></div>
</div>

<script>
    // Uses the browser locale so it matches the user's settings (e.g., en-IN).
    const timeEl = document.getElementById('time');
    const dateEl = document.getElementById('date');
    const tzEl = document.getElementById('tz');

    function pad(n){ return String(n).padStart(2, '0'); }

```

```

function updateClock(){

  const now = new Date();

  // Hours/min/sec and AM/PM
  let hours = now.getHours();
  const ampm = hours >= 12 ? 'PM' : 'AM';
  hours = hours % 12;
  hours = hours === 0 ? 12 : hours; // convert 0 to 12
  const minutes = pad(now.getMinutes());
  const seconds = pad(now.getSeconds());

  timeEl.innerHTML = `${pad(hours)}:${minutes}${seconds} <span class="ampm">${ampm}</span>`;

  // Full date like: Wednesday, Nov 26, 2025
  // Using Intl.DateTimeFormat for correct locale formatting
  const locale = navigator.language || 'en-IN';
  const dateFormatter = new Intl.DateTimeFormat(locale, {
    weekday: 'long',
    year: 'numeric',
    month: 'short',
    day: 'numeric'
  });
  dateEl.textContent = 'Today — ' + dateFormatter.format(now);

  // Timezone name (best-effort)
  let tz = 'Timezone: ' + (Intl.DateTimeFormat().resolvedOptions().timeZone || 'Local');
  tzEl.textContent = tz;
}

// Start immediately and update every second
updateClock();
setInterval(updateClock, 1000);

// Accessibility: allow pressing "T" to focus the clock card
document.addEventListener('keydown', (e) => {
  if (e.key.toLowerCase() === 't' && !e.ctrlKey && !e.metaKey) {
    document.querySelector('.clock-card').focus();
  }
});
</script>

</body>
</html>

```

OUTPUT:

