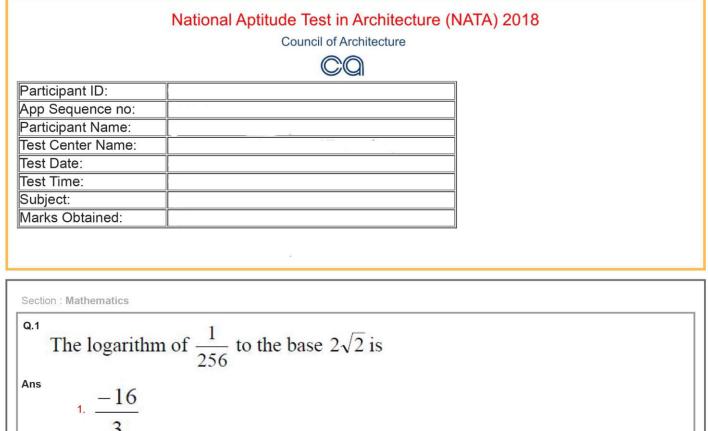


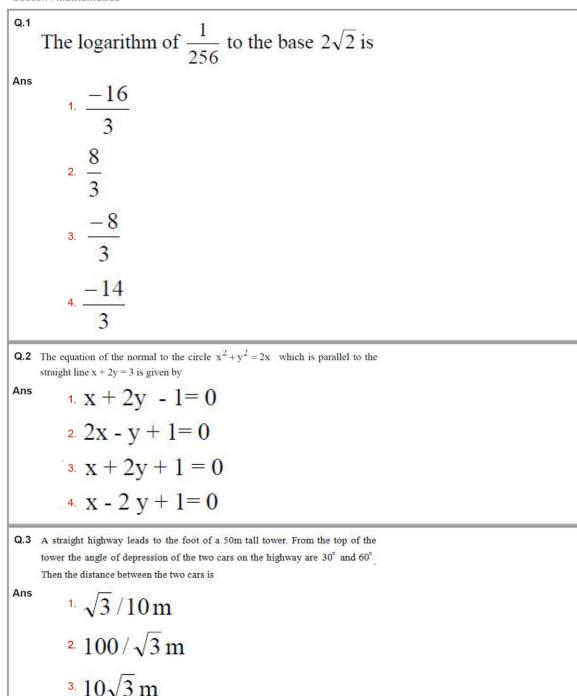
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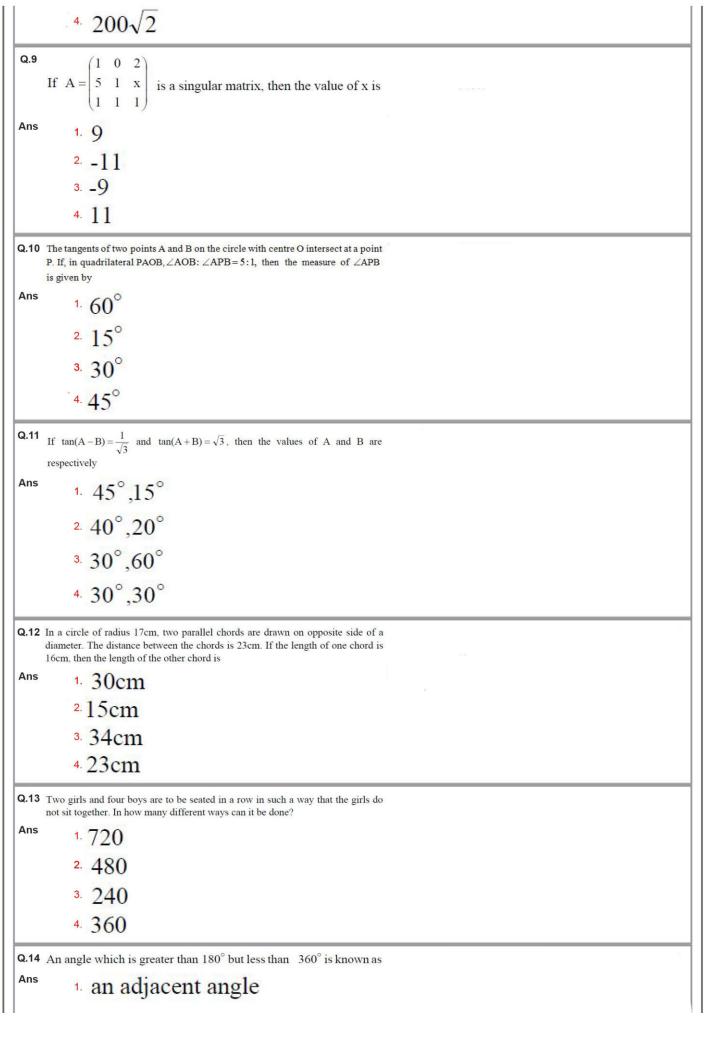
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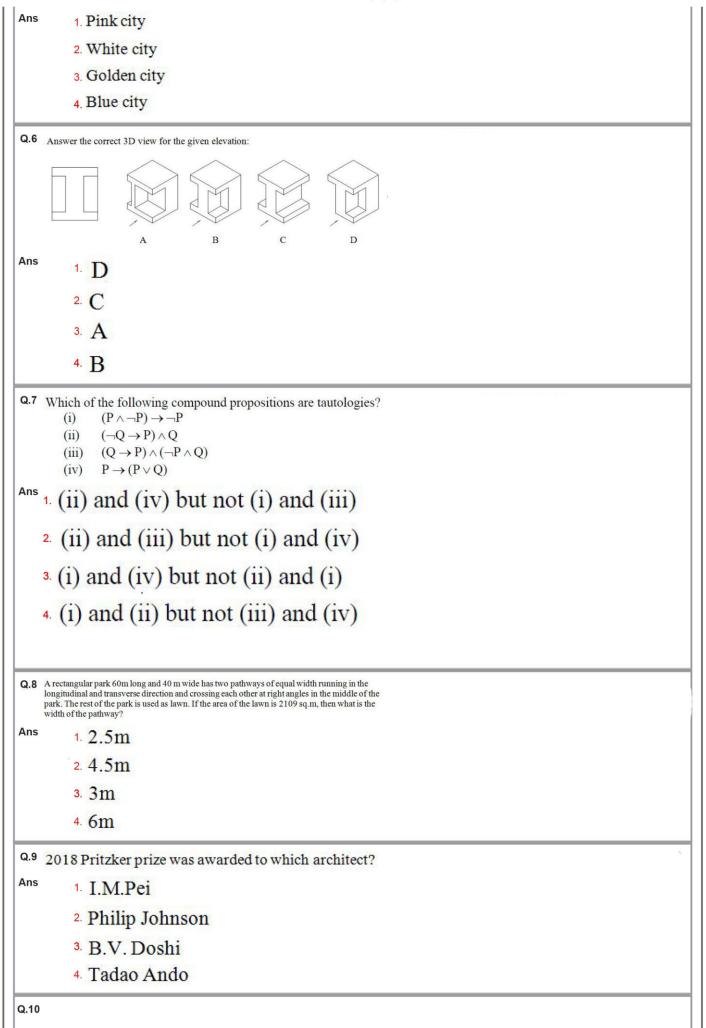


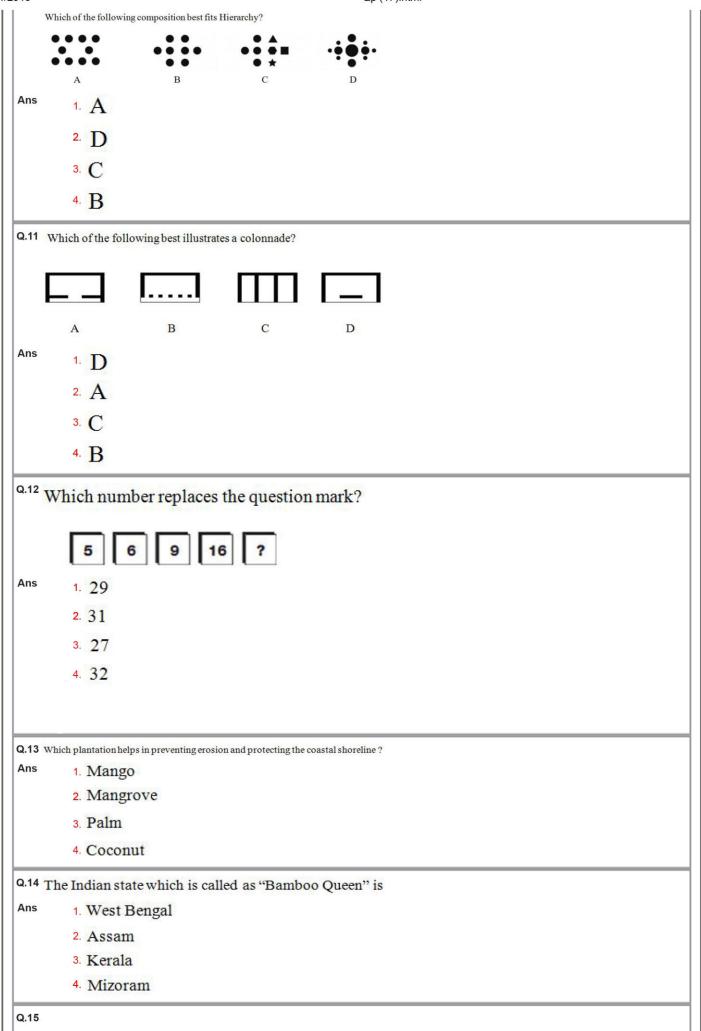
Q.4 TE	$4.100\sqrt{3}$ m
Q.4 TE	+ 100 _V 3 m
L. II	$\tan A = 1$ and $\tan B = \sqrt{3}$, then $\cos(A+B)$ is equal to
Ans	$1 - \sqrt{3}$
	$\frac{1}{2\sqrt{2}}$
	2.]
	3. $\frac{\sqrt{3}}{2\sqrt{2}}$
	$2\sqrt{2}$
	$4. \frac{1+\sqrt{3}}{2\sqrt{2}}$
	$2\sqrt{2}$
Q.5 If	$A = \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix} \text{ and } B = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix} \text{ are matrices, then AB + BA is}$
Ans	1 a null matrix
	² a diagonal matrix
	an invertible matrix
	4. a unit matrix
Q.6 If	
11	a, b, c are in A.P., as well as in G.P., then
	^{1.} $a = b \neq c$ ^{2.} $a \neq b = c$
	$a \neq b = c$ $a \neq b \neq c$
	a = b = c
	distance between two parallel lines $5x - 12y + 2 = 0$ and $5x - 12y - 3 = 0$ is en by
Ans	1. 5/13
	2. 1/13
	^{3.} 1/17
	4. 5/14
Q.8 Th	the sum of the 24 terms of the series $\sqrt{2} + \sqrt{8} + \sqrt{18} + \sqrt{32} + \dots$ is
Ans	$1.100\sqrt{2}$
	500 10
	2. $500\sqrt{2}$

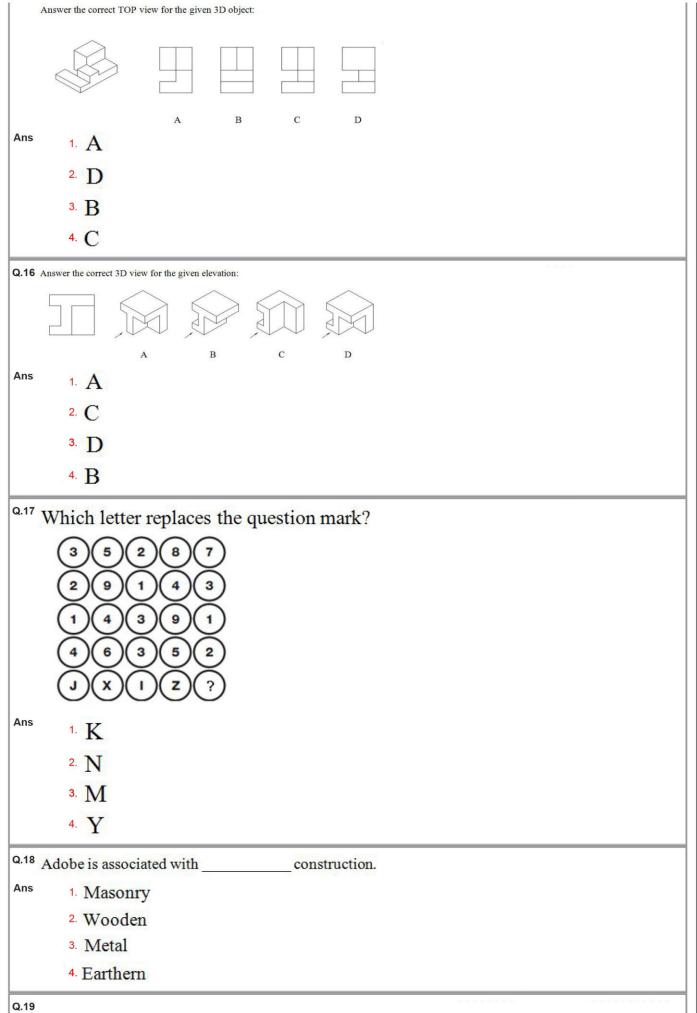


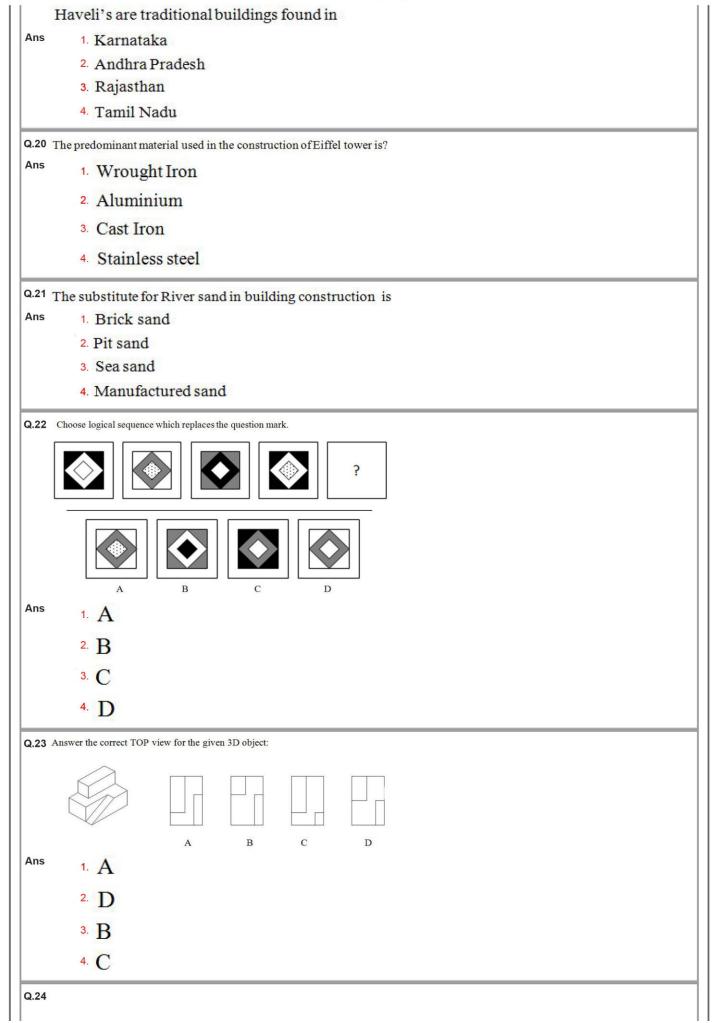
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6/4/2018
                                                                        Qp (17).html
               2 an alternate angle
               3. a right angle
               4. a reflex angle
     Q.15 The number of common tangents that can be drawn to two given circles is at the
          most
     Ans
                1. two
                2. one
                <sup>3.</sup> four
               4. three
            \lim \left(\sqrt{x + \sqrt{x + \sqrt{x}}} - \sqrt{x}\right) is equal to
     Q.16
           X \rightarrow \infty
     Ans
                log_e(2)
                2. ()
               3. 0.5
                4. 2
     Q.17 If \log_{\sqrt{5}}(x) + \log_{\sqrt{5}}(x) \log_{\sqrt{5}}(x) + \dots up to 7 terms = 35, then the value of x is
     Ans
               1. 5
                2. 75
               <sup>3.</sup> 125
                4. 25
     Q.18 AB is a straight line and O is a point on the line AB. If one draws a line OC not
          coinciding with OA or OB, then the ∠AOC and ∠BOC are
     Ans
                1. complementary
                <sup>2</sup> together equal to 130^{\circ}
                3. supplementary
               4. equal
     Q.19 Three vertices of \triangle ABC are A(1, 4), B(-2, 2) and C(3, 2). Then the area of
           AABC is
     Ans
               1.7 sq. units
                <sup>2</sup> 5 sq. units
               3. 15 sq. units
               4 6 sq. units
```

Q.20 The equation of the plane passing through the point $(1, -1, 2)$ and parallel to the plane $3x + 4y - 5z = 0$ is
Ans 1. $3x + 4y - 5z + 11 = 0$
2.3x + 4y - 5z - 1 = 0
3 3x + 4y - 5z - 11 = 0
4 3x + 4y - 5z + 1 = 0
Section : General Aptitude
Q.1 Let Z denote the set of all integers. If a relation R is defined on Z as follows:
$(x, y) \in R \text{ if and only if } x \text{ is multiple of } y, \text{ then } R \text{ is}$ Ans Symmetric, transitive but not
¹ reflexive
2.
reflexive, symmetric but not transitive
reflexive, transitive but not
symmetric
4.
neither reflexive nor transitive but
symmetric
Q.2 Paris Summit discusses which of the following issues?
Ans 1. Natural conservation
2. Migration
3. Climate change
4. Built Heritage
 Q.3 On weekends, Mr. Sanjay spends many hours working in his vegetable and flower gardens. Mrs. Sanjay spends her free time reading and listening to classical music. Both Mr. Sanjay and Mrs. Sanjay like to cook.
Ans 1.
Mrs. Sanjay enjoys reading nineteenth century novels.
2. Mr. Sanjay enjoys planting and growing vegetables.
3.
Mrs. Sanjay cooks the vegetables that Mr. Sanjay grows.
4.
Mr. Sanjay does not like classical music.
Q.4 Which Indian city ranks in UNESCO World Heritage list 2017?
Ans 1. Chandigarh
2. Kanchipuram
3. Kolkata
4. Ahmedabad
Q.5 Jodhpur is referred as

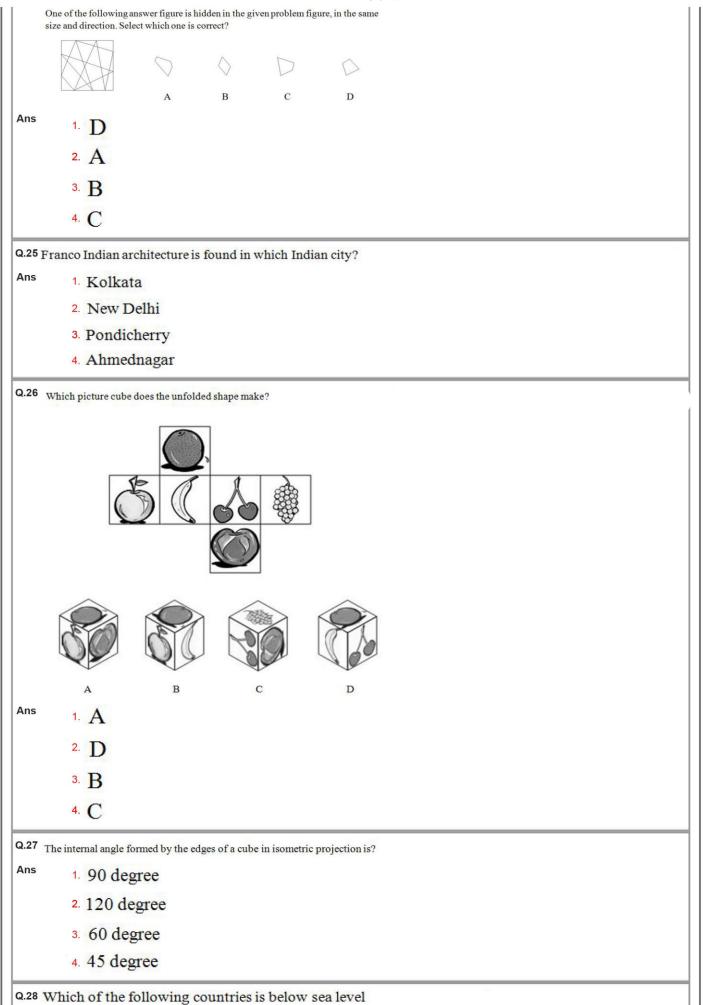


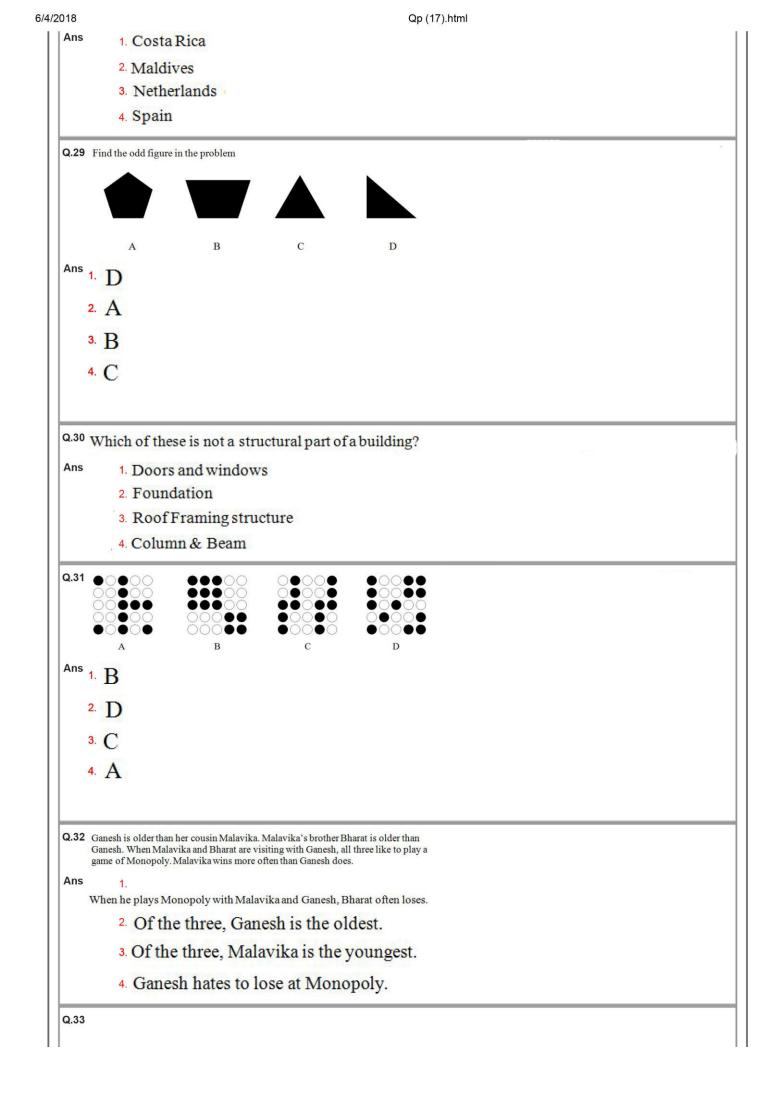




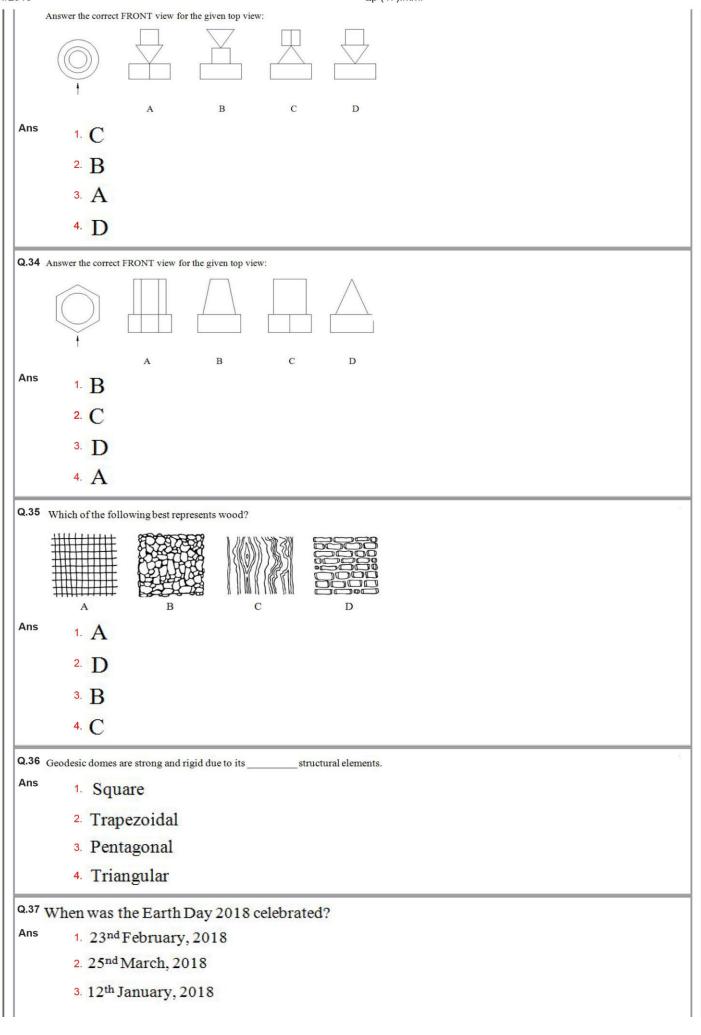




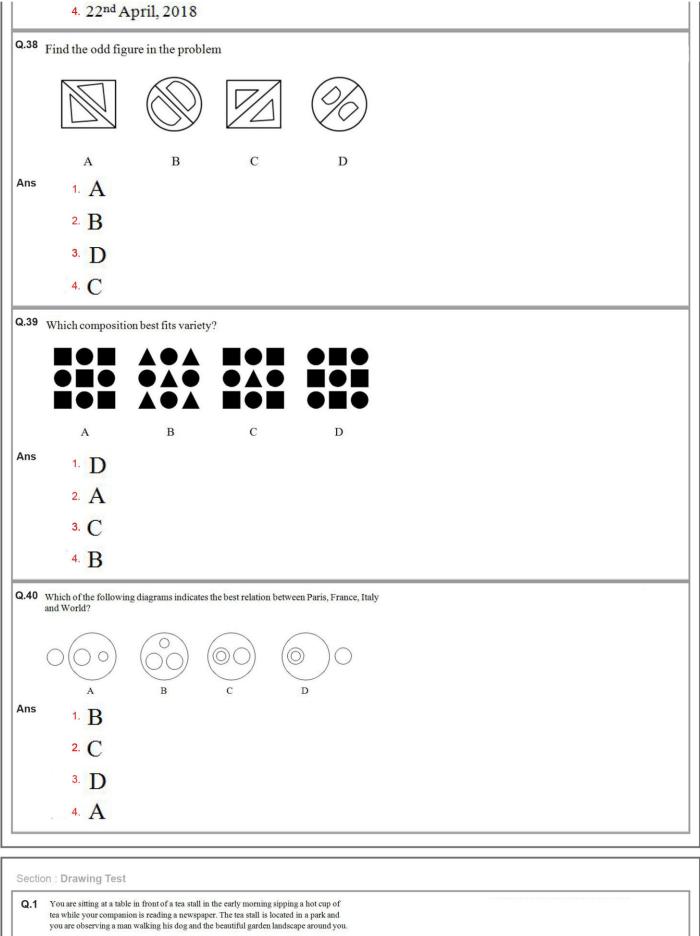












Sketch the scenario described above and render light and shade using drawing pencils.

