Question ID: 833493125 Status: Answered

Marks : 0.00

Question ID: 833493140 Status: Answered

Question ID: 833493130 Status: Answered

Marks : 2.00

Question ID: 833493139

Marks : 2.00

Question ID: 833493128

Chosen Option: 3 Marks : 0.00

Status: Answered

Chosen Option : 1

Status: Answered

Chosen Option: 1

Chosen Option: 4

Chosen Option : 1 Marks : 0.00

National Aptitude Test in Architecture (NATA) 2018

Council of Architecture



Participant ID:	13042359
App Sequence no:	5802
Participant Name:	Abhishek Khopkar
Test Center Name:	ON Digital Zone iDZ Turbhe SK Wheels
Test Date:	29/04/2018
Test Time:	09:30 AM - 12:30 PM
Subject:	NATA 2018
Marks Obtained:	78.00

Q.1 If a, b, c are in A.P., as well as in G.P., then

Ans $\sqrt{1}$ a = b = c

 \times 2. $a \neq b = c$

 \times 3. $a = b \neq c$

 X_4 a \neq b \neq c

Q.2 The equation of the plane passing through the point (1, -1, 2) and parallel to the

 \times 1. 3x + 4y - 5z - 11 = 0

 \checkmark 2. 3x + 4y - 5z + 11 = 0

 \times 3 3x + 4y - 5z - 1 = 0

 $\times 4.3x + 4y - 5z + 1 = 0$

If $A = \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix}$ and $B = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$ are matrices, then AB + BA is

Ans 🗸 a null matrix

X2. a unit matrix

X3 a diagonal matrix

X4 an invertible matrix

Q.4 The tangents of two points A and B on the circle with centre O intersect at a point P. If, in quadrilateral PAOB, ∠AOB: ∠APB=5:1, then the measure of ∠APB is given by

✓1. 30°

X 2. 15°

X 3. 60°

X 4. 45°

Q.5 If $\log_{\sqrt{5}}(x) + \log_{3/5}(x) \log_{4/5}(x) + ...$ up to 7 terms = 35, then the value of x is

Ans X 1. 25

1 2. 5

X 3. 125

X4. 75

Q.6 In a circle of radius 17cm, two parallel chords are drawn on opposite side of a diameter. The distance between the chords is 23cm. If the length of one chord is 16cm, then the length of the other chord is

× 1.23cm

Question ID: 833493136

Status: Answered Chosen Option: 4

Marks : 0.00

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- ✓2. 30cm
- X 3. 34cm
- X4.15cm
- **Q.7** The equation of the normal to the circle $x^2 + y^2 = 2x$ which is parallel to the straight line x + 2y = 3 is given by

 \times 1. 2x - y + 1 = 0

- \times_2 x + 2y + 1 = 0
- $\sqrt{3}$ x + 2v 1= 0
- \times 4. x 2y + 1 = 0

 $\lim_{x\to\infty} \left(\sqrt{x+\sqrt{x+\sqrt{x}}} - \sqrt{x} \right)$ is equal to

Ans X 1. ()

- **√**2. 0 5
- X 3. 7
- \times 4. $\log_e(2)$

Q.9 Three vertices of $\triangle ABC$ are A(1, 4), B(-2, 2) and C(3, 2). Then the area of

Ans X 1 6 sq. units

X2. 15 sq. units

✓3. 5 sq. units

X4. 7 sq. units

Q.10 If $\tan A = 1$ and $\tan B = \sqrt{3}$, then $\cos(A+B)$ is equal to

$$\checkmark 1. \frac{1-\sqrt{3}}{2\sqrt{2}}$$

X 2. 1

$$\times$$
 3. $\frac{1+\sqrt{3}}{2\sqrt{2}}$

 \times 4. $\frac{\sqrt{3}}{2\sqrt{2}}$

Q.11 The number of common tangents that can be drawn to two given circles is at the

Ans 🗸 1. two

X2. three

X3. four

X4 one

If $A = \begin{bmatrix} 5 & 1 & x \end{bmatrix}$ is a singular matrix, then the value of x is

Ans X 1. 11

X 2. _11

Question ID: 833493143

Status: Answered

Chosen Option: 2

Marks : 0.00

Question ID: 833493141

Status: Answered

Chosen Option : 1

Marks : 0.00

Question ID: 833493138 Status: Answered

Chosen Option: 3

Marks : 2.00

Question ID: 833493133 Status: Answered

Chosen Option: 3 Marks : 0.00

Question ID: 833493137

Status: Answered

Chosen Option: 1

Marks : 2.00

Status: Answered Chosen Option: 3 Marks : 2.00

Question ID: 833493131

X 4. -9

Q.13 The distance between two parallel lines 5x - 12y + 2 = 0 and 5x - 12y - 3 = 0 is given by

X 1. 1/17

X 2. 1/13

X 3. 5/14

√ 4. 5/13

The logarithm of $\frac{1}{256}$ to the base $2\sqrt{2}$ is

 $\times 2. \frac{-14}{3}$

 $\times 4. \frac{-8}{3}$

Q.15 An angle which is greater than 180° but less than 360° is known as

✓¹ a reflex angle

X2 an adjacent angle

X3 an alternate angle

X4 a right angle

Q.16 A straight highway leads to the foot of a 50m tall tower. From the top of the tower the angle of depression of the two cars on the highway are 30° and 60° Then the distance between the two cars is

 \times 1 100 / $\sqrt{3}$ m

 $\times 2.10\sqrt{3}$ m

 $\times 3. \sqrt{3} / 10 \text{ m}$

✓ 4. $100\sqrt{3}$ m

Q.17 Two girls and four boys are to be seated in a row in such a way that the girls do not sit together. In how many different ways can it be done?

×1. 240

X 2. 360

√ 3. 480

× 4.720

Q.18 The sum of the 24 terms of the series $\sqrt{2} + \sqrt{8} + \sqrt{18} + \sqrt{32} + \dots$ is

 $\times 1.100\sqrt{2}$

 \times 2. $500\sqrt{2}$

 \times 3. $200\sqrt{2}$

Question ID : 833493142

Status : Answered

Chosen Option: 4

Marks : 2.00

Ouestion ID: 833493127 Status : Answered

Chosen Option : 1

Marks : 0.00

Question ID : 833493134

Status: Answered

Chosen Option: 1

Marks : 2.00

Question ID: 833493132

Status: Answered

Chosen Option : 1

Marks: 0.00

Question ID: 833493144

Status: Answered

Chosen Option : 2

Marks : 0.00

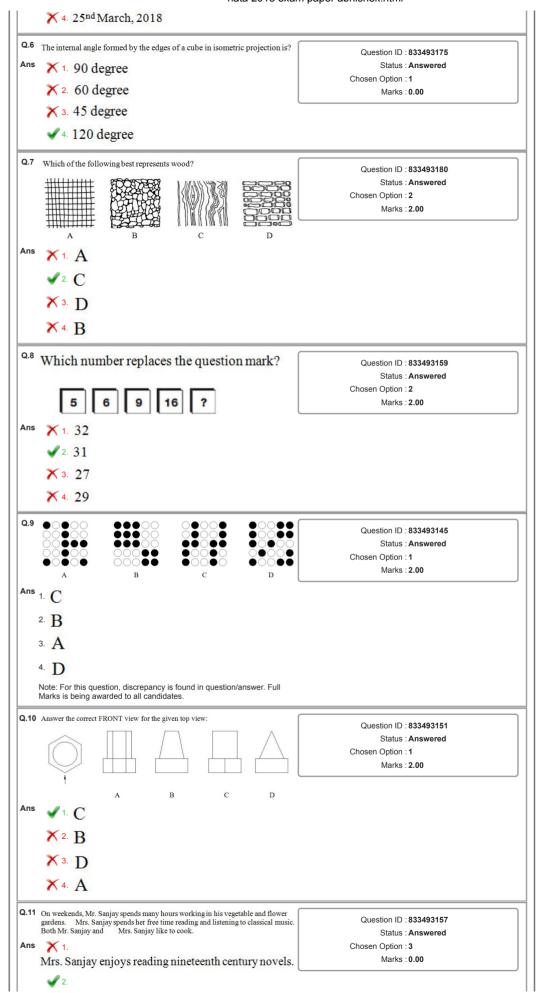
Question ID: 833493126 Status: Answered

Chosen Option: 4

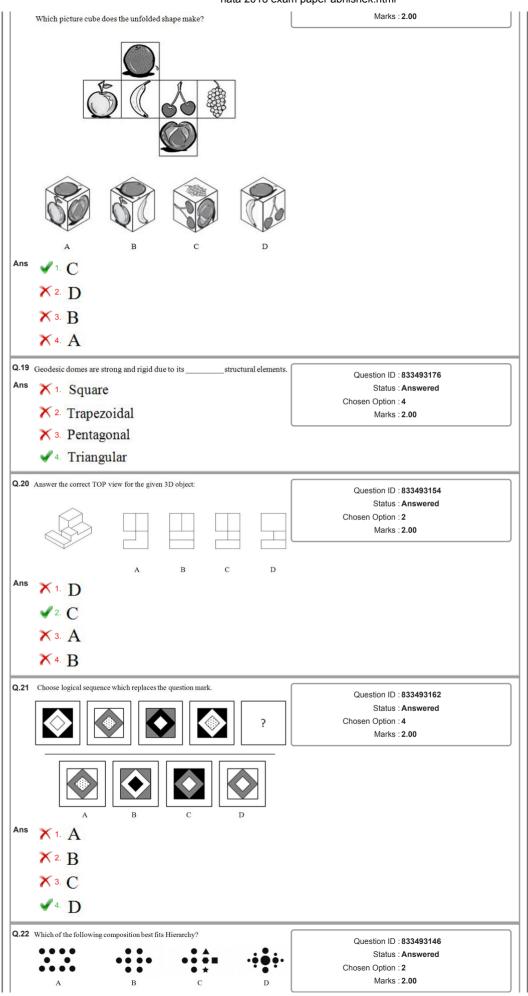
Marks : 2.00

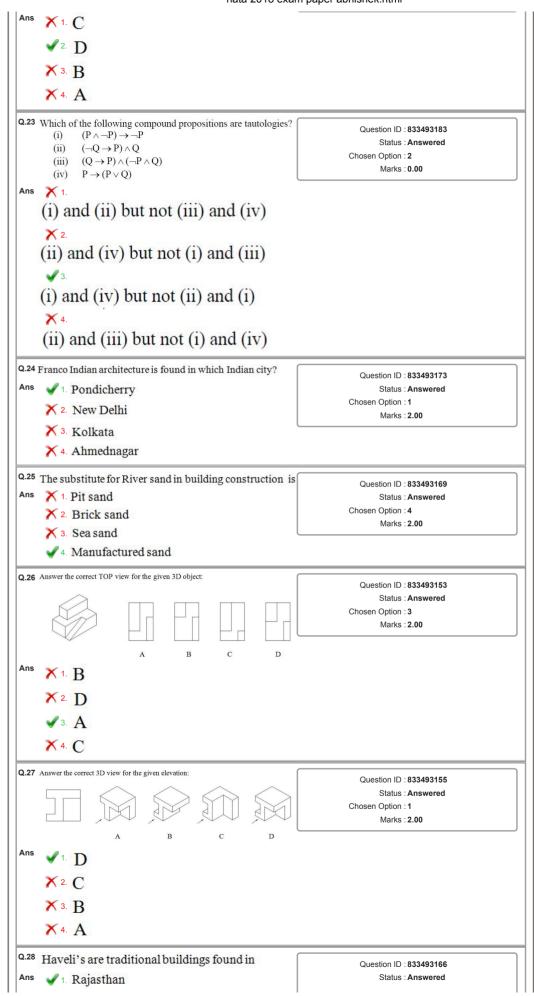
 \checkmark 4. 300 $\sqrt{2}$

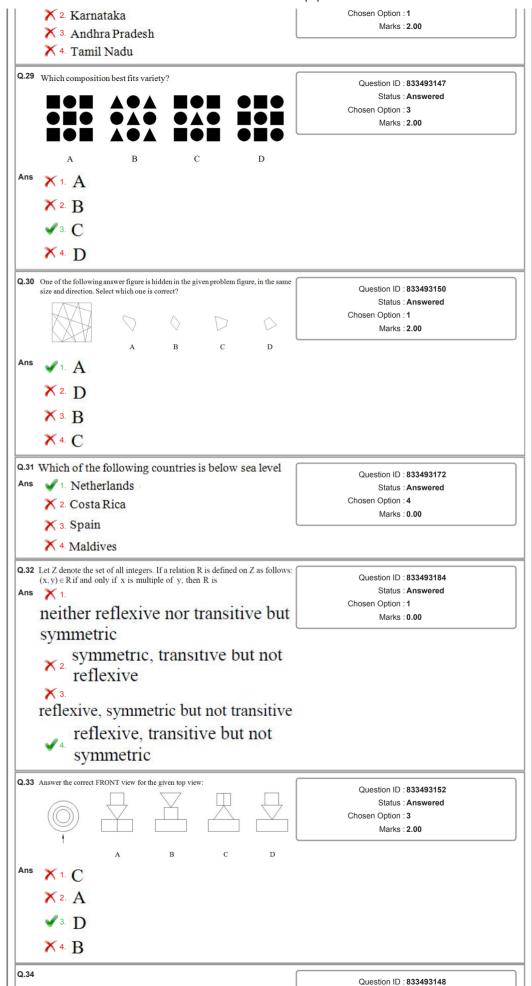
Q.19 If $tan(A-B) = \frac{1}{\sqrt{3}}$ and $tan(A+B) = \sqrt{3}$, then the values of A and B are Question ID: 833493129 Status: Answered respectively Chosen Option: 4 × 1. 40°.20° Marks : 2.00 $\times 2.30^{\circ}.60^{\circ}$ ×3. 30°.30° ✓4. 45°.15° Q.20 AB is a straight line and O is a point on the line AB. If one draws a line OC not Question ID: 833493135 coinciding with OA or OB, then the ∠AOC and ∠BOC are Status: Answered X1 equal Chosen Option : 2 Marks : 2.00 √ 2. supplementary X3. complementary ×⁴ together equal to 130° Section : General Aptitude Q.1 A rectangular park 60m long and 40 m wide has two pathways of equal width running in the longitudinal and transverse direction and crossing each other at right angles in the middle of the Question ID: 833493181 park. The rest of the park is used as lawn. If the area of the lawn is 2109 sq.m, then what is the width of the pathway? Status: Answered Chosen Option: 4 X 1. 4.5m Marks : 2.00 X 2. 6m X 3. 2.5m ✓ 4. 3m Q.2 Ganesh is older than her cousin Malavika. Malavika's brother Bharat is older than Question ID: 833493158 Ganesh. When Malavika and Bharat are visiting with Ganesh, all three like to play a game of Monopoly. Malavika wins more often than Ganesh does. Status: Answered Chosen Option: 4 X 1. Ganesh hates to lose at Monopoly. Marks : 2.00 × 2. Of the three, Ganesh is the oldest. When he plays Monopoly with Malavika and Ganesh, Bharat often loses. ✓ 4 Of the three, Malavika is the youngest. Q.3 Which of the following diagrams indicates the best relation between Paris, France, Italy Question ID: 833493182 Status: Answered Chosen Option: 2 Marks : 2.00 X 3. D X 4. B Q.4 The predominant material used in the construction of Eiffel tower is? Question ID: 833493178 X 1. Stainless steel Status: Answered Chosen Option : 1 √ 2. Wrought Iron X 3. Cast Iron X 4. Aluminium Q.5 When was the Earth Day 2018 celebrated? Question ID: 833493164 Ans X 1. 12th January, 2018 Status: Answered Chosen Option: 3 √ 2. 22nd April, 2018 Marks : 0.00 X 3. 23nd February, 2018

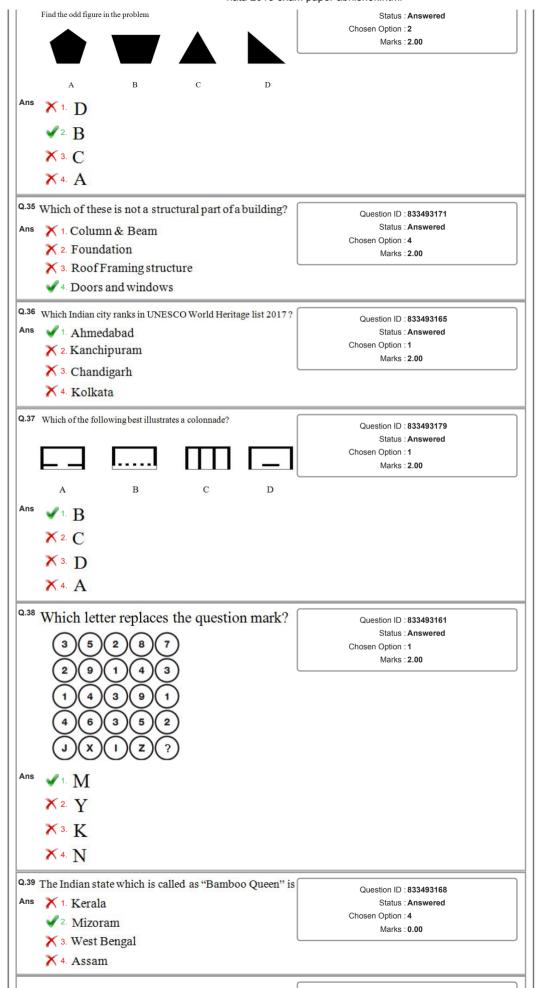


Mr. Sanjay enjoys planting and growing vegetables. Mrs. Sanjay cooks the vegetables that Mr. Sanjay grows. Mr. Sanjay does not like classical music. Q.12 Answer the correct 3D view for the given elevation: Question ID: 833493156 Status: Answered Chosen Option : 3 Marks : 2.00 X 2. D **√**3. **B** X 4. C Q.13 Paris Summit discusses which of the following issues? Question ID: 833493174 √ 1. Climate change Status : Answered Chosen Option : 1 X 2. Migration Marks : 2.00 X 3. Built Heritage X 4. Natural conservation Q.14 Find the odd figure in the problem Question ID: 833493149 Status : Answered Chosen Option : 3 Marks : 2.00 C X 1. C X 2. B **√**3. **D** X 4. A Q.15 Which plantation helps in preventing erosion and protecting the coastal shoreline? Question ID: 833493167 Ans X 1. Mango Status: Answered √ 2. Mangrove Chosen Option : 3 Marks : 0.00 X 3. Coconut X 4. Palm Q.16 Adobe is associated with _ construction. Question ID: 833493177 Status : Answered Ans X 1. Metal Chosen Option : 1 ✓ 2. Earthern Marks : 0.00 X 3. Wooden X 4. Masonry Q.17 Jodhpur is referred as Question ID: 833493170 X 1. Golden city Status: Answered Chosen Option : 2 X 2. Pink city Marks : 0.00 X 3. White city Q.18 Question ID: 833493160 Status : Answered Chosen Option : 1









Question ID: 833493163
Status: Answered
Chosen Option: 2
Marks: 2.00

Ans 7 I. Tadao Ando

2. B.V. Doshi

3. Philip Johnson

4. I.M.Pei

Section: Drawing Test

Q.1 You are sitting at a table in front of a tea stall in the early morning sipping a hot cup of tea while your companion is reading a newspaper. The tea stall is located in a park and you are observing a man walking his dog and the beautiful garden landscape around you.

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

Q.2 Using all the three shapes given below, create a visually pleasing composition. The shapes are to be used in the same size as illustrated below and they can be repeated, rotated, overlapped, interlocked and mirrored to create the composition.

Use not more than 20 nos. of the shapes (all put together) and colour the composition using not more than 3 colours from analogous colour scheme.

Question ID: 833493185
Status: Answered
Status: Answered
Marks: 0.00