

# NATA QUESTION PAPER - 2021

- Q.1 Some bricks are arranged in a pile with volume 30 cu m. If the length, breadth and height of each brick is 25 cm, 12.5 cm and 8 cm respectively, then in that pile the number of bricks are (Assume there is no gap in between two bricks)
- Q.2 A man having height 1.68 m is standing near a pole. He casts a shadow 140 cm long. What is the length of the pole (in cm) if it gives a shadow 420 cm long?
- Q.3 What is the length of the bridge (in m), which a train 130 metres long and travelling at 45 km/hr can cross in 30 seconds?
- Q.4 In an election, a candidate who gets 84 % of the votes is elected by a majority of 476 votes. What is the total number of votes polled?
- Q.5 A speed of 50 km per hour is the same as \_\_\_\_\_ metres/ second.
- Q.6 A wire is in the form of a circle of radius 38cm. If it is bent into a square what will be the area of the square (in cm<sup>2</sup>)?
- Q.7 When the digits within the number are multiplied with each other, the product of which of the following numbers is the lowest?  
435, 224, 823, 902
- Q.8 Find out the wrong number in the series.  
2880, 480, 92, 24, 8, 4, 4
- Q.9 A motorboat whose speed is 15 km/hr in still water goes 30 km downstream and comes back in a total of 4 hours 30 minutes. What is the speed of the stream (in km/hr)?
- Q.10 The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?
- Q.11 Light year is a unit of  
Options :  
a. Light  
b. Current  
c. Distance  
d. Time
- Q.12 Friction can be reduced by changing from  
Options :  
a. sliding to rolling  
b. rolling to sliding  
c. potential energy to kinetic energy  
d. dynamic to static
- Q.13 For safety, the fuse wire used in the mains for household supply of electricity must be made of metal having  
Options :  
a. Low melting point  
b. High resistance  
c. High melting point  
d. Low specific heat
- Q.14 The absorption of ink by blotting paper involves  
Options :  
a. viscosity of ink  
b. diffusion of ink through the blotting  
c. capillary action  
d. siphon action
- Q.15 Rays from sun converge at a point 15 cm in front of concave mirror. Where should the object be placed so that size of its image is equal to the size of the object?  
Options :  
a. 15 cm in front of the mirror  
b. 30 cm in front of the mirror  
c. Between 15 cm and 30 cm in front of the mirror  
d. more than 30 cm in front of the mirror

Q.16 A man presses more weight on earth at

Options :

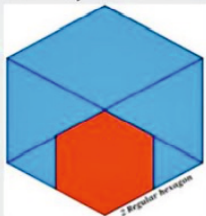
- a. Sitting position
- b. Standing Position
- c. Lying Position
- d. Kneeling position

Q.17 Which of the following statements is true?

Options :

- a. The image formed in a plane mirror is real
- b. The image in the plane mirror is of the same size as the object
- c. An object is placed at a distance of 20 cm in front of plane mirror; the image formed would be 40 cm from the object
- d. The image formed in a plane mirror is laterally inverted.

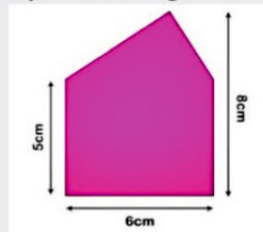
Q.18 Find the ratio of areas between Blue shaded portion and the red shaded portion, if the given shapes are 2 regular hexagons. (Blue Area: Red Area =?)



Options :

- a. 5:3
- b. 3:2
- c. 3:1
- d. 4:3

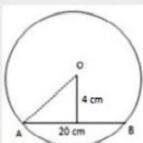
Q.19 Find the area of the composite shape in the given figure.



Options :

- a. 27 cm<sup>2</sup>
- b. 39 cm<sup>2</sup>
- c. 48 cm<sup>2</sup>
- d. 59 cm<sup>2</sup>

Q.20 A chord AB of length 20cm is at a distance of 4cm from the center O of a circle. Find the radius of the circle.



Options :

- a.  $2\sqrt{21}$
- b.  $2\sqrt{29}$
- c.  $3\sqrt{31}$
- d.  $3\sqrt{12}$

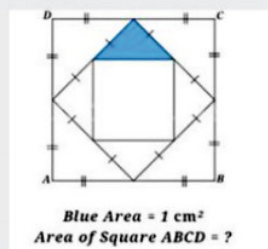
Q.21 Perimeter of a Triangle with integer sides is equal to 15. How many such triangles are possible?

Options :

- a. 6
- b. 7
- c. 8
- d. 9

Q.22 In the given figure if the area of the blue shaded right angled triangle is 1 cm<sup>2</sup>

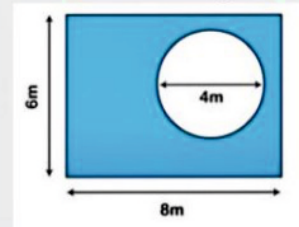
Then find the area of the square ABCD.



Options :

- a. 12 cm<sup>2</sup>
- b. 14 cm<sup>2</sup>
- c. 16 cm<sup>2</sup>
- d. 18 cm<sup>2</sup>

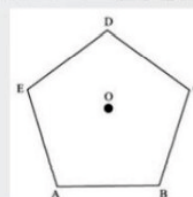
Q.23 Find the area of the blue shaded portion for the given figure below.



Options :

- a. 35.44
- b. 22.44
- c. 42.44
- d. 58.44

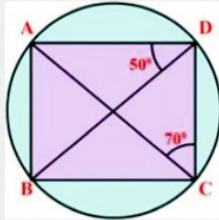
Q.24 ABCDE is a regular pentagon. O is a point inside the pentagon such that AOB is an equilateral triangle. What is  $\angle OEA$ ?



Options :

- a.  $66^\circ$
- b.  $48^\circ$
- c.  $54^\circ$
- d.  $72^\circ$

Q.25 In the given figure, ABCD is a cyclic quadrilateral such that  $\angle ADB=50^\circ$  and  $\angle DCA=70^\circ$  , then find the measure of  $\angle DAB$  .



Options :

- a.  $30^\circ$
- b.  $45^\circ$
- c.  $60^\circ$
- d.  $90^\circ$

Q.26 Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.  
"A man remains narrow minded, self-compliance and ignorant unless he visits other people and \_\_\_\_\_ from them."

Options :

- a. Earns
- b. Borrows
- c. Learns
- d. hears

Q.27 In the following questions choose the word which is the exact OPPOSITE of the word given in **bold** type.  
"There has been a mass **exodus** of workers from the villages to the towns."

Options :

- a. Influx
- b. Home-coming
- c. Return
- d. Restoration

Q.28 Which of the phrases given below should replace the phrase printed in **bold** type to make the sentence grammatically correct?

"The research study is an eye-opener and **attempts to acquainting** us with the problems of poor nations."

Options :

- a. attempted to acquaint
- b. attempts at acquainting
- c. attempt to acquaint
- d. attempting to acquaint

Q.29 Pick up the word from the given options which means the same as the word in **bold** and can replace it without altering the meaning of the sentence.

"We should always try to maintain and promote communal **amity**."

Options :

- a. Bondage
- b. Friendship
- c. Contention
- d. understanding

Q.30 In the question below, the passage consists of six sentences. The first and sixth sentences (**S1 and S6**) are given in the beginning and at the end respectively. The middle four sentences have been removed and jumbled up. These are labeled as **A, B, C** and **D**. Find out the proper order for the four sentences.

**S1:** Calcutta unlike other cities kept its trams.

**A:** As a result there horrendous congestion.

**B:** It was going to be the first in South Asia.

**C:** They run down the center of the road

**D:** To ease in the city decided to build an underground railway line

**S6:** The foundation stone was laid in 1972

The Proper sequence should be:

Options :

- a. ACDB
- b. ADBC
- c. DBCA
- d. CADB

**Paragraph:**

Soft bodied animals like caterpillars often fall prey to voracious hunters like birds or reptiles. Despite having no means to "actively" defend themselves with weapons like claws or jaws, they have nevertheless, evolved other equally effective deterrents. A particular species of the caterpillar lives at an altitude of over 2500 meters in the Himalayas. It uses a prominent colour to inform would be predators of its inedibility. In the event that an inexperienced or adventurous bird did eat the caterpillar, it would probably vomit it soon after and subsequently desist from attacking similar species in future. Though this would do the unfortunate victim no good, the species benefits. This is a rare example of the martyr among animals.

Q.31 The expression "*other equally effective deterrents*" mean

Options :

- a. preventive weapons which have equal effect of others
- b. mechanism which scares everyone equally well
- c. preventive equipment which is as effective as something that has already been mentioned in the passage
- d. deterrents that are as powerful as those that the caterpillars have

Q.32 Experienced birds do not attack the Himalayan caterpillars because they are

Options :

- a. repulsive
- b. very aggressive
- c. inedible
- d. diseased

Q.33 The Himalayan caterpillar uses prominent colours to

Options :

- a. warn the predator
- b. attack the predator
- c. reveal itself
- d. defend itself

Q.34 Caterpillars cannot defend themselves because

Options :

- a. are passive animals
- b. is lazy
- c. cannot acquire weapons
- d. have no claws or jaws

**Paragraph:**

Apart from the elaborate myths connecting it to Krishna, the tulsi plant has several medicinal properties. To protect and revere this plant with so many medicinal properties, it was designated as sacred, a fitting tribute to its role in providing invaluable healthcare. The worship of plants is an ancient phenomenon in India. It is probably the oldest form of worship. The association of a single tree with a sacred sthala or sthana is reflected in the chaityavriksha and sthalavriksha or literature and society. When people turned to food production, the Mother Goddess or the Earth Mother became the chief deity. Fertility, creation, and the world of plants and animals became her blessings to her devotees. The worship of the tree was the adoration of her creative abilities, symbolising fertility so essential for the survival of the early people. Spirits—good or bad—were believed to reside in trees. If the trees were worshipped, then the resident spirits were pleased. As sacred forests were replaced by agriculture, a single tree was left and was designated as 'sacred'. The earliest temples were little more than images placed under trees. Later, the tree and the image were enclosed by a fence made of wood, followed even by stone. Numerous references are made in literature to trees as abodes of gods.

Q.35 Which of the following is an important part of the ancient ecological heritage of India?

Options :

- a. Indo Gangetic Plains
- b. Mother Goddess
- c. Sacred trees
- d. Kanyalcum

Q.36 The worship of plants in an \_\_\_\_\_ phenomenon in India

Options :

- a. Ancient
- b. Invaluable
- c. Immemorial
- d. Elaborate

Q.37 The most important things given by Mother Earth to us are

Options :

- a. Air and fire
- b. Creative abilities
- c. Plants and animals
- d. spirits

Q.38 All trees except one were felled down by the early people for

Options :

- a. Their shelter
- b. Agriculture
- c. Earning money
- d. Fuel

### Paragraph:

The strength of the electronics industry in Japan is the Japanese ability to organize production and marketing rather than their achievement in original research. The British are generally recognized as a far more inventive collection of individuals, but never seem able to exploit what they invent. There are many examples, from the TSR Z hovercraft, high speed train and Sinclair scooter to the Triumph, BSA and Norton Motorcycle which all prove this sad rule. The Japanese were able to exploit their strengths in marketing and development many years ago and their success was at first, either not understood in the West or was dismissed as something which could have been produced only at their low price. They were sold because they were cheap copies of other people's ideas, churned out of a workhouse which was dedicated to hard grind above all else.

Q.39 It is evident from the passage that the strength of a country's industry depends upon

Options :

- a. Original research
- b. International cooperation
- c. Dedicated workforce
- d. Electronic development

Q.40 The sad rule mentioned in this passage refers to

Options :

- a. The inability of the Japanese to be inventive like the British
- b. The inability of the British to be industrious like the Japanese
- c. The lack of variety in Japanese inventions
- d. The poorer marketing ability of British

Q.41 The TSR Z hovercraft, high speed train, Sinclair scooter etc. are the symbols of

Options :

- a. Japanese success
- b. British failure
- c. British success
- d. Japanese failure

Q.42 The main theme of this passage is

Options :

- a. Electronic industry in Japan
- b. Industrial comparison between Japan and Britain
- c. The role of marketing efficiency in industrial prosperity
- d. The importance of original research in industry

### Paragraph:

There is modicum of truth in the assertion that "a working knowledge of ancient history is necessary to the intelligent interpretation of current events". But the sage who uttered these words of wisdom might well have added something on the benefits of studying, particularly, the famous battles of history for the lessons they contain for those of us who lead or aspire to leadership. Such a study will reveal certain qualities and attributes which enabled the winners to win and certain deficiencies which caused the losers to lose. And the student will see that the same patterns recur consistently, again and again, throughout centuries.

Q.43 A person who aspires to lead could learn from the history of battles

Options :

- a. what led the previous leaders win a battle
- b. what made them lose a battle
- c. the qualities and deficiencies of commanders of these battles
- d. the strategies that they have evolved in course of these battles

Q.44 In this context, "intelligent interpretation of current event" means

Options :

- a. rational explanation of events
- b. appropriate understanding of events
- c. intellectual outlook on events
- d. skillful interpretation of events

Q.45 The expression "more than a modicum of truth" means

Options :

- a. some truth
- b. much truth
- c. more than a small amount of truth
- d. nothing but truth

Q.46 According to the writer, a study of famous battles of history would

Options :

- a. be beneficial to wise men
- b. provide food to modern leaders for reflection
- c. be more useful than a general knowledge of ancient history
- d. help us understand the art of modern warfare

**Paragraph:**

Speech is great blessing, but it can also be a great curse, for while it helps us to make our intentions and desires known to our fellows, it can also if used carelessly, make our attitude completely misunderstood. A slip of the tongue, the use of a unusual word, or of an ambiguous word, and so on, may create an enemy where we had hoped to win a friend. Again, different classes of people use different vocabularies, and the ordinary speech of an educated may strike an uneducated listener as pompous. Unwittingly, we may use a word which bears a different meaning to our listener from what it does to men of our own class. Thus, speech is not a gift to use lightly without thought, but one which demands careful handling. Only a fool will express himself alike to all kinds and conditions of men.

Q.47 The best way to win a friend is to avoid

Options :

- a. irony in speech
- b. arrogance in speech
- c. verbosity in speech
- d. ambiguity in speech

Q.48 While talking to an uneducated person, we should use

Options :

- a. ordinary speech
- b. his vocabulary
- c. simple words
- d. polite language

Q.49 A 'slip of the tongue' means something said

Options :

- a. wrongly by choice
- b. intentionally
- c. without giving proper thought
- d. to hurt another person

Q.50 Speech can be a curse, because it can

Options :

- a. hurt others
- b. lead to carelessness
- c. create misunderstanding
- d. reveal our intentions

Q.51 Identify the building material used for construction of the given free standing wall.



Options :

- a. Random rubble
- b. Adobe construction
- c. Mud wall construction
- d. Rammed earth

Q.52 Given below is an image of a palm leaf as an example of naturally occurring ..... structure. Which among the following is the most appropriate answer



Options :

- a. Tensile
- b. Folded Plate
- c. Coffered
- d. Flat plate

Q.53 The given pedestrian bridge in Brisbane Australia is a good example of \_\_\_\_\_.



Options :

- a. Suspended structure
- b. Catenary structure
- c. Truss structure
- d. Tensegrity structure

Q.54 The image given below is of an oceanarium designed by architect Felix Candela in Spain. This structure is a good example of which of the following?



Options :

- a. Suspended structure
- b. Folded concrete plate structure
- c. Thin Concrete shell
- d. Hyperbolic domes

Q.55 The image given below is one of the upcoming construction technologies used in construction. Guess the correct construction technique depicted.



Options :

- a. Laser CNC cutting
- b. 3D moulding
- c. CNC Milling
- d. 3D printing

Q.56 Identify the most infertile amongst the following Soils.

Options :

- a. Black cotton soil
- b. Laterite soil
- c. Alluvial soil
- d. Peaty soil

Q.57 Chief Justice of the Supreme Court is appointed by the

Options :

- a. Speaker of the Lok Sabha
- b. Chairman of the Rajya Sabha
- c. Prime Minister
- d. President

Q.58 Spot the odd one out in the following :

Options :

- a. Shale
- b. Marble
- c. Limestone
- d. Sandstone

Q.59 In the year 2020, who won the International Children's Peace Prize?

Options :

- a. Malala Yousafzai
- b. Angela Merkel
- c. Om Prakash Gurjar
- d. Sadat Rahman

Q.60 The 2030 Agenda for Sustainable Development, adopted by all United Nations Member States in 2015 proposes ..... which provides a shared blueprint for peace and prosperity for people and the planet, now and into the future.

Options :

- a. 11 sustainable goals
- b. 13 sustainable goals
- c. 17 sustainable goals
- d. 15 sustainable goals

Q.61 Development expenditure of the Central government does not include

Options :

- a. defense expenditure
- b. expenditure on economic services
- c. expenditure on social and community services
- d. grant to states

Q.62 Which of the following places is famous for "Chikankari" work, which is a traditional art of embroidery?

Options :

- a. Lucknow
- b. Hyderabad
- c. Jaipur
- d. Mysore

Q.63 In a certain code, EAT is written as 318 and CHAIR is written as 24156. What will TEACHER be written as?

Options :

- a. 8312346
- b. 8321436
- c. 8312436
- d. 8313426

Q.64 Varun ranks seventh from top and twenty eight from the bottom in a class. How many students are there in the class?

Options :

- a. 31
- b. 32
- c. 33
- d. 34

Q.65 Tharun's commute never bothered him because there were always seats available on the train and he was able to spend his 40 minutes comfortably reading the newspaper or catching up on paperwork. Ever since the train schedule changed, the train has been extremely crowded, and by the time the doors open at his station, there isn't a seat to be found.

Which of the following choices best suggests Tharun's situation?

Options :

- a. Tharun would be better off taking the bus to work.
- b. Tharun's commute is less comfortable since the train schedule changed.
- c. Many commuters will complain about the new train schedule.
- d. Tharun will likely look for a new job closer to home.

Q.66 Five children are sitting in a row. Sita is sitting next to Peter but not Tarun. Kalam is sitting next to Rani who is sitting on the extreme left and Tarun is not sitting next to Kalam. Who is/are sitting adjacent to Sita?

Options :

- a. Kalam and Peter
- b. Rani and Peter
- c. Only Peter
- d. Peter and Tarun

Q.67 Find the best Analogy

If

Water : Sand

Then

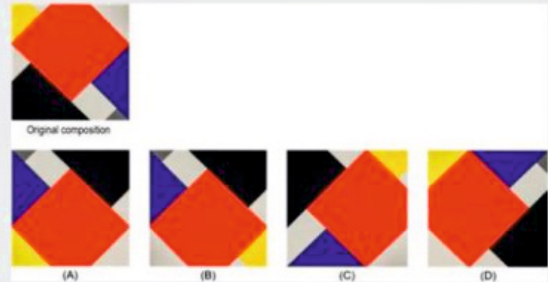
Ocean : \_\_\_\_\_

Options :

- a. Droplets
- b. Dust
- c. Continent
- d. Desert

Q.68 The given picture below depicts the work of Dutch artist Theo van Doesburg's "Counter-Composition" designed in 1924.

Identify the rotated version of the original composition from the choices given below.



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

Q.69 "Futura" is a font designed by Paul Renner a German typeface designer in 1927. Identify the **four most important principles** adapted to compose the poster for Futura font. (Marks will be given only if all answers are correct.)



Options :

- a. Rhythm
- b. Parallelism
- c. Polychromatic
- d. Direction
- e. Minimalism
- f. Focus
- g. Distortion
- h. Monochromatic

Q.70 Identify the four most important visual principles that can be observed for the given painting.

(Marks will be given only if all answers are correct.)





Options :

- a. Datum
- b. Unity
- c. Flow
- d. Polychromatic
- e. Contrast
- f. Rhythm
- g. Similarity
- h. Direction

Q.71 A large newspaper is created using 100 sheets of paper folded in half. The pages are numbered from 1 to 400. A sheet is pulled out of the newspaper. If one of the page numbers on this sheet is 178, can you find out the **numbers on the other three pages** on this sheet of paper? (Marks will be awarded only if all 3 answers are right)



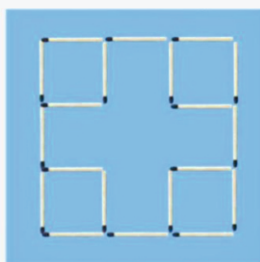
Q.72 Assuming all the five sentences are correct, guess the code to unlock the Code

WILL YOU CRACK THE CODE ?

	6 8 2	One number is correct and well placed
	6 1 4	One number is correct but wrong place
	2 0 6	Two numbers are correct but wrong places
	7 3 8	Nothing is correct
	8 7 0	One number is correct but wrong place

Q.73 What four letter word can be written forward, backward or upside down and can still be read from left to right? Provide the answer in capital letters.

Q.74 The given matchstick figure shows 5 squares, how many minimum number of sticks are required to be moved to achieve 7 squares.



Q.75 There are Nine horses inside a square fence. You are instructed to construct further more square fences inside the bigger fence. How many minimum numbers of square fences are required to separate all the nine horses?



Q.76 How many hands does the clock of London's Big Ben have?

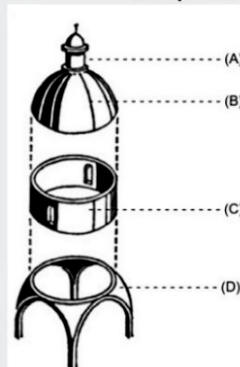
Q.77 Which of the following options best describes the Biosphere Environment Museum designed by Richard Buckminster Fuller?



Options :

- a. Geodesic dome
- b. Ribbed dome
- c. Parabolic dome
- d. Hemispherical dome

Q.78 For the given exploded view of a typical dome, choose the correct option which depicts the pendentive.



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

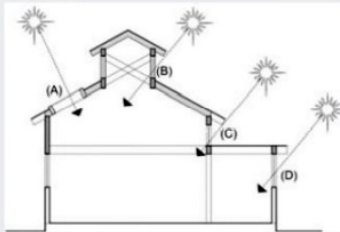
Q.79 What is the name given to the chair designed by Mies Van der Rohe?



Options :

- a. C - chair
- b. Steel Chair
- c. Cantilever chair
- d. Supported chair

Q.80 For the given schematic section which option given by numbers best depicts the term – Clerestory window



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

Q.81 The following sketch is the plan of the Fatehpur Sikri a master piece in Mughal architecture. From the given Plan identify **four most important structures** that form enclosures to this complex. (Marks will be awarded if all answers are correct)



Options :

- a. Darwazas
- b. Water bodies
- c. Mahals
- d. Courtyards
- e. Bastions
- f. Cloisters
- g. Guard houses
- h. Stables

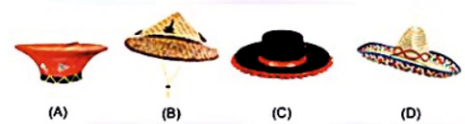
Q.82 Below are few symbols of sustainable development goals as published by United Nations Development Programme (UNDP) Identify the symbol for the goal "Climate Action"



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

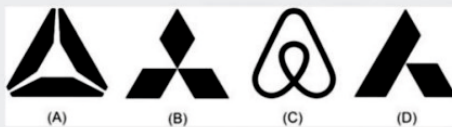
Q.83 Look carefully at the different traditional hats from various countries, Identify the one which belongs to European continent. (Marks:2)



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

Q.84 Identify the logo which depicts a brand known for lodging and hospitality.



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

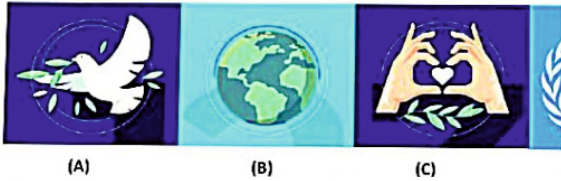
Q.85 Which of the dwellings represented below is representation of nomadic architecture



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

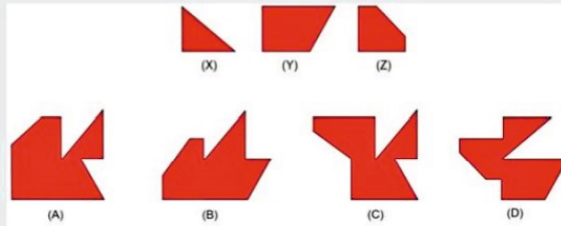
Q.86 While all of the symbols illustrated below are associated with Nations one of them is associated particularly with the UN Environment Program. Identify the correct symbol from the options given.



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

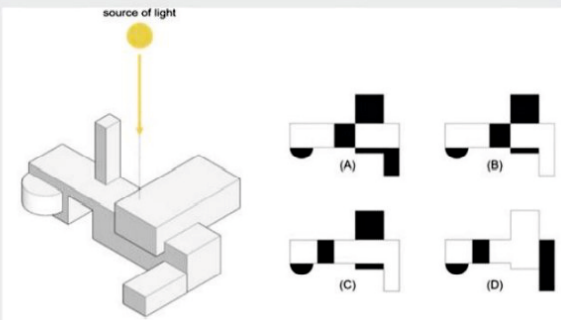
Q.87 The given shapes X, Y and Z can be combined to form which composition? Select from the choices given below.



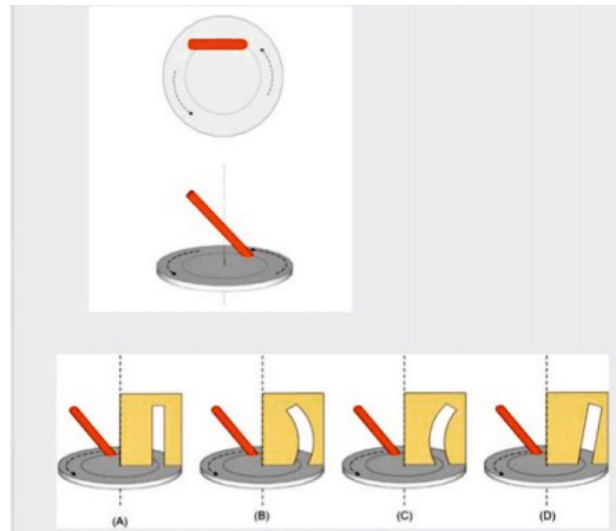
Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

Q.88 For the given 3D figure, if a light source is directly above the 3D object, identify the correct shadow formed from the given options. (Shadows are depicted in black)



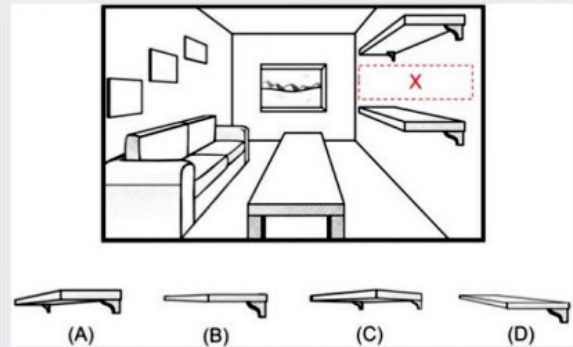
Q.89 For the given 3D figure, the inclined red cylinder is spinning about the central axis in counter clockwise direction. If the vertical yellow plane with a cutout is an immovable object which remains in the same location, identify the correct option from the images given below in which the red cylinder can pass through the cut out in yellow plane.



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

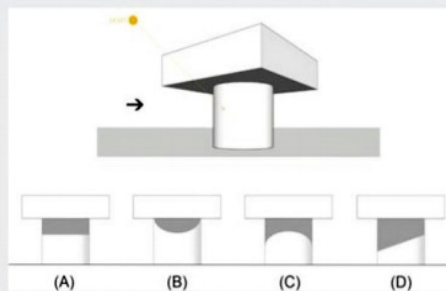
Q.90 For the given one point perspective of the living room, identify which display rack will be replaced in the place of (X).



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

Q.91 Identify the correct side elevation with the correct shadow for the given 3D figure. The direction of the light source is indicated in the figure.



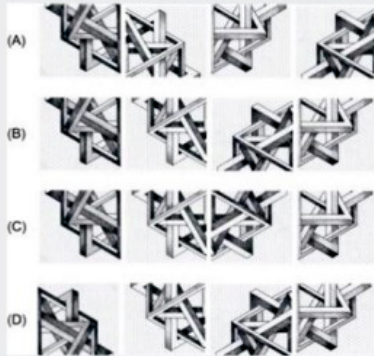
ptions :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

Q.92 The given 3D figure may be formed by combining which of the following options given below.



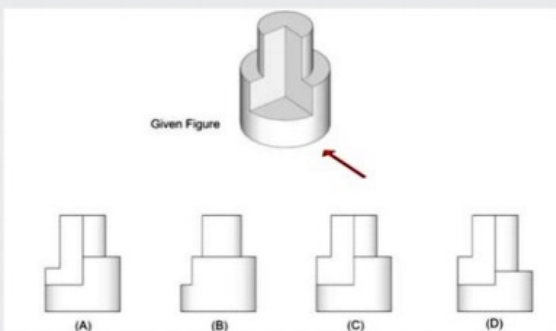
Given 3D figure



ptions :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

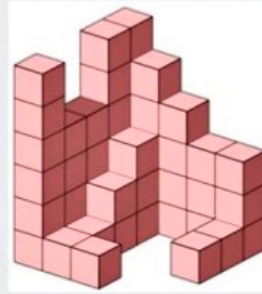
Q.93 Identify the correct SIDE view for the given object. (use the arrow as reference point)



ptions :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

Q.94 How many blocks make up the stacking below?



ptions :

- a. 44
- b. 41
- c. 54
- d. 51

Q.95 Identify the architecture of the different places as given below. Marks will be awarded only if all answers are correct.



- 1. A. Rajasthan
- 2. B. Goa
- 3. C. Kerala
- 4. D. Sikkim
- 5. E. Pune

ptions :

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5
- p. A
- q. B
- r. C
- s. D
- t. E

Q.96 Identify the medium through which the following portraits have been done.



- 1. A. Water colours
- 2. B. Pencils
- 3. C. Pastels
- 4. D. Digital
- 5. E. Oil

ptions :

- a. 1
- b. 2
- c. 3
- d. 4
- e. 5
- p. A
- q. B
- r. C
- s. D
- t. E

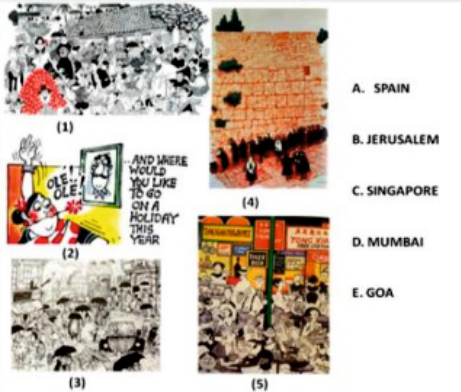
Q.97 Identify the script to the regional language it belongs to? (Marks will be awarded if all answers are correct)

- |              |   |           |
|--------------|---|-----------|
| 1. Hindi     | A | प र ल व श |
| 2. Tamil     | B | ய ர ல வ ஶ |
| 3. Kannada   | C | ಯ ರ ಲ ವ ಶ |
| 4. Malayalam | D | ധ ര ല വ ഷ |
| 5. Gujarati  | E | ય ર લ વ શ |

ptions :

- |      |      |
|------|------|
| a. 1 | p. A |
| b. 2 | q. B |
| c. 3 | r. C |
| d. 4 | s. D |
| e. 5 | t. E |

Q.98 **Mario Miranda** was an Indian cartoonist and painter well-known for his portrayal of everyday people (in the form of caricatures). The drawings given below are of people he lived with and places visited in his travels. Identify the place that each cartoon is associated with. (Marks will be awarded if only all answers are correct)



- A. SPAIN  
B. JERUSALEM  
C. SINGAPORE  
D. MUMBAI  
E. GOA

ptions :

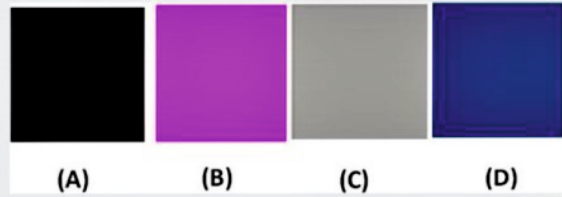
- |      |      |
|------|------|
| a. 1 | p. A |
| b. 2 | q. B |
| c. 3 | r. C |
| d. 4 | s. D |
| e. 5 | t. E |

Q.99 What is color?

ptions :

- Used in paints, dyes and ink made by absorbing wavelengths of light, and then reflecting the light
- A substance used to give something a particular color
- Pigmentation of the skin, especially as an indication of someone's race.
- The property possessed by an object of producing different sensations in the eye as a result of the way the object reflects or emits light.

Q.100 Which from among the following colors is considered as an unemotional detached color?



ptions :

- (A)
- (B)
- (C)
- (D)

Q.101 Which art movement tried to capture the changing effects of color in nature?



- REALISM
- EXPRESSIONISM
- IMPRESSIONISM
- SURREALISM

ptions :

- (A)
- (B)
- (C)
- (D)

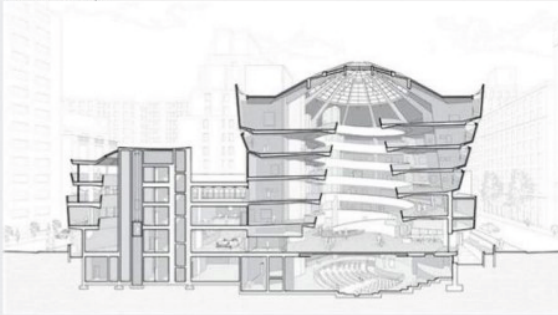
Q.102 The following sketch is the section of the Kailashanathan temple in Ellora. From the given Section identify **four most important elements** that define the temple. (Marks will be awarded if all answers are correct)



ptions :

- Rock cut
- Bazaar
- Enclosure
- Structural construction
- Water body
- Maze
- Monolith
- Depressed plane

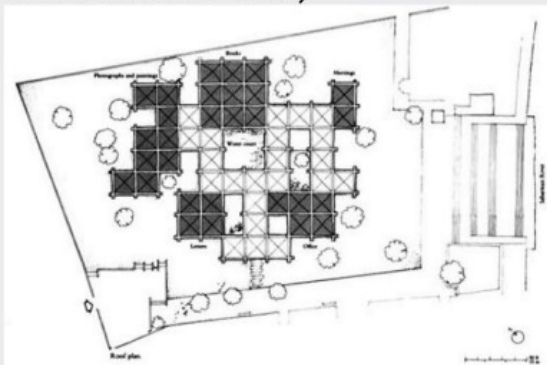
Q.103 The given section is a building designed by American architect Frank Lloyd Wright. Choose **four most appropriate architectural vocabularies** associated with the building. (Marks will be awarded if all answers are correct)



ptions :

- a. Linearity
- b. Courtyard
- c. De-constructivist
- d. Mall
- e. Ramp
- f. Atrium
- g. Skylight
- h. Centralized

Q.104 Gandhi Memorial museum at Sabarmati Ashram was designed by the renowned architect Charles Correa. Choose any **four most appropriate design principles** incorporated in the design. (Marks will be awarded if all answers are correct)



ptions :

- a. Visual Permeability
- b. Edge definition
- c. Grid planning
- d. Base plane
- e. Radial organization
- f. Centrality
- g. Courtyards
- h. Cluster

Q.105 The Pushkaranis in Hampi are the sacred water tanks that are attached to the temples. Choose any **four most appropriate design principles** incorporated in the form and design of the pushkaranis. (Marks will be awarded if all answers are correct)



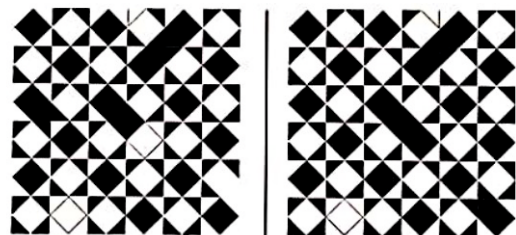
ptions :

- a. Stepped Well
- b. Emergence
- c. Inverted Pyramid
- d. Rain water harvesting
- e. Light and shadow
- f. Solids and voids
- g. Submergence
- h. Dentils

Q.106 Make out the number of differences in the image given below.



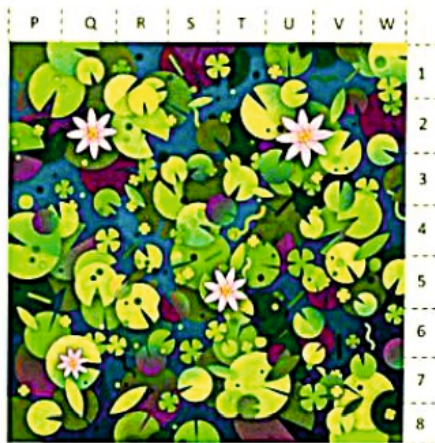
Q.107 Make out the number of differences in the given black and white checker board patterns below.



Q.108 Make out the number of differences in the images given below.



Q.109 Locate the hidden TURTLE amongst the water lilies and identify the segment in which located; for example P/ 2, R/4, and so on



Q.110 Which of the four paintings on topic of "Prakruti" belongs to Sayed Hyder Raza?



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

Q.111 Dr. S. M. Pandit was one of the most popular and [Marks:1] much sought-after painters of his times, especially in the school of Realism. Identify from the options given below the work of S M Pandit



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

Q.112 The photographs of Mother Teresa illustrated below is by an illustrious photographer with an ability to perceive the true nature of any human face. He first achieved international attention with his photographs of the Bhopal gas tragedy. Who is this Photo journalist?



Options :

- a. Daboo Ratnani, Mumbai
- b. Raghu Rai, N Delhi
- c. Atul Kasbekar, Mumbai
- d. Rathika Ramasamy, Theni

Q.113 Choose from the options below, the composition that best relates to the given composition.



Given composition



(A)



(B)



(C)

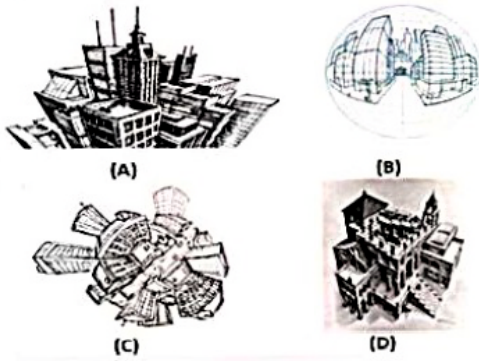


(D)

Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

Q.114 Which of the following drawings is a four point perspective?



Options :

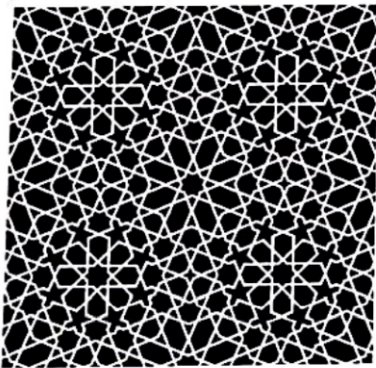
- a. (A)
- b. (B)
- c. (C)
- d. (D)

Q.115 How many horses do you see in the picture?



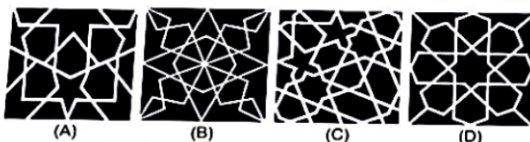
Paragraph:

Carefully observe the given geometric pattern. The image will disappear after 30 seconds and answer the following two questions. The image cannot be viewed again.



Q.116 The module of the given geometrical pattern is symmetrical about how many axes?

Q.117 Choose the correct pattern from the options given below, which can be repeated to form the complete pattern displayed in the question.



Options :

- a. (A)
- b. (B)
- c. (C)
- d. (D)

Paragraph:

Carefully observe the given material palette for a building. The image will disappear after 30 seconds and answer the two following questions. The image cannot be viewed again.



Q.118 How many different types of building materials were observed on the given palette?

Q.119 How many times a combination of Random rubble masonry and brick masonry were placed next to each other in a row?

Paragraph:

The Art Institute of Chicago has recreated the famous painting "the bedroom" by Vincent van Gogh. Carefully observe the image which will disappear after 30 seconds and answer the two following questions. The image cannot be viewed again.



Q.120 How many paintings of portraits were hanging on walls?

Q.121 What was the colour of the bed spread?

Options :

- a. White
- b. Blue
- c. Red
- d. Brown

Paragraph:

The given picture shows Natasha's souvenir collection from her various travels around the world. Carefully observe the souvenirs and answer the two questions below. The image will appear for 30 seconds.





Q.122 Name the country from which the most number of souvenirs were obtained by Natasha? [Marks:3]

Options :

- a. Singapore
- b. Spain
- c. France
- d. Japan

Q.123 Natasha got only one souvenir from how many countries?

Paragraph:

Carefully observe the given work desk. The image will disappear for 30 seconds and cannot be viewed again. Two questions will be asked based on the image.



Q.124 How many tools were found that could be used for measuring lengths?

Q.125 How many digital/ electronic devices were there?

## Answer Key

1	12000	2	504	3	245	4	700	5	13.8
6	3570.06	7	902	8	92	9	5	10	4
11	c	12	a	13	a	14	c	15	b
16	b	17	-	18	c	19	b	20	-
21	b	22	c	23	a	24	a	25	c
26	c	27	a	28	b	29	b	30	d
31	b	32	c	33	a	34	d	35	c
36	a	37	c	38	b	39	c	40	d
41	b	42	c	43	c	44	a	45	c
46	b	47	d	48	b	49	c	50	c
51	d	52	b	53	d	54	c	55	d
56	b	57	d	58	b	59	d	60	c
61	a	62	a	63	c	64	d	65	b
66	a	67	d	68	b	69	b,c,d,f	70	b,f,g,h
71	177,223,224	72	042	73	NOON	74	2	75	2
76	8	77	a	78	d	79	c	80	b
81	a,e,f,g	82	b	83	c	84	c	85	d
86	d	87	d	88	-	89	c	90	d
91	c	92	a	93	c	94	d	95	a-r,b-p,c-t,d-q,e-s
96	a-r,b-p,c-t,d-q,e-s	97	a-t,b-s,c-q,d-r,e-p	98	a-t,b-p,c-s,d-q,e-r	99	d	100	c
101	c	102	a,c,g,h	103	e,f,g,h	104	a,c,g,h	105	c,d,e,g
106	6	107	5	108	7	109	V/7	110	a
111	-	112	b	113	c	114	b	115	12
116	-	117	c	118	5	119	1	120	2
121	c	122	c	123	6	124	2	125	4