NATA 2021

QUESTION PAPER WITH ANSWERS | 3RD TEST

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Q.1 In a shower, 5 cm of rain falls. What is the volume of water **(in cubic cm)** that falls on a piece of land measuring 300m x 50m? [Marks:1]

- Correct Answer : 750000000

Q.2 The angle of elevation of a ladder leaning against a wall is 60° and the foot of the ladder is 4.6m away from the wall. What is the length (in m) of the ladder? [Marks:1]

- Correct Answer : 9.2

Q.3 A man walked diagonally across a square lot. Approximately, what was sthe percentage saved by not walking along the edges? [Marks:1]
(Provide answer rounded off to the **nearest whole number**)

- Correct Answer : 30

Q.4 Pick the odd number out [Marks:1]
396, 462, 572, 427, 671, 264

- Correct Answer : 427

Q.5 A library has an average of 610 visitors on Sundays and 240 on other days. What is the average number of visitors per day in a month of 30 days beginning with a Sunday? [Marks:1]
(Provide answer rounded off to the **nearest whole number**)

- Correct Answer : 302

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Q.6 One pipe can fill a tank four times as fast as another pipe. If together the two pipes can fill the tank in 32 minutes, then how much time **(in minutes)** will the slower pipe alone take to fill the tank? [Marks:1]

- Correct Answer : 160

Q.7 Cost of fencing around a rectangular field is Rs. 24000. If the cost of fencing per meter is Rs. 40 and the length of the rectangular field is twice the breadth, find the area **(in sq m)** of the field. [Marks:1]

- Correct Answer : 20000

Q.8 Sakthi can do a piece of work in 20 days. Nikshu is 25% more efficient than Sakthi. How many days will Nikshu take to do the same piece of work? [Marks:1]

- Correct Answer : 16

Q.9 A boat having a length 4 m and breadth 2 m is floating on a lake. The boat sinks by 1 cm when a man gets on it. What is the mass **(in kg)** of the man? [Marks:1]

- Correct Answer : 80

Q.10 A helicopter covers a certain distance at a speed of 240 kmph in 4 hours. To cover the same distance in 1 ⅔ hours, at what speed **(in kmph)** must the helicopter travel? [Marks:1]

- Correct Answer : 576

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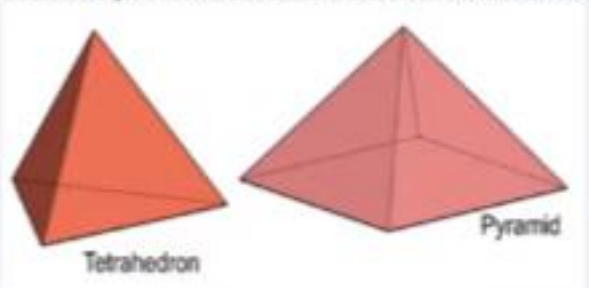
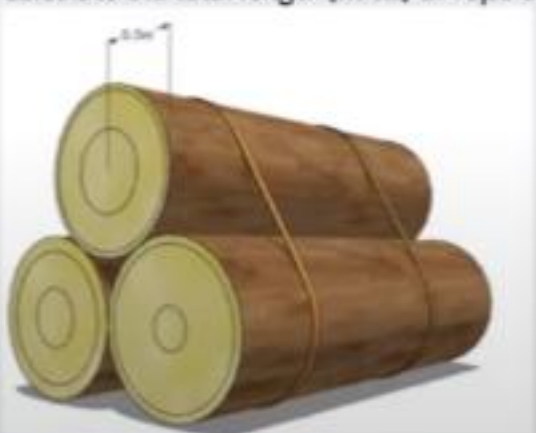
Q.11 As shown in the figure a tetrahedron and a pyramid with equal side lengths are attached on to one of the triangular faces. [Marks:1]
The newly formed solid due to the combination will have how many surfaces?



- Correct Answer : 7

Q.12 As shown in the figure three wooden logs each measuring 1 meter diameter (0.5m radius) is held together by two ropes. [Marks:1]
Calculate the total length (in m) of rope used.



- Correct Answer : 12.28

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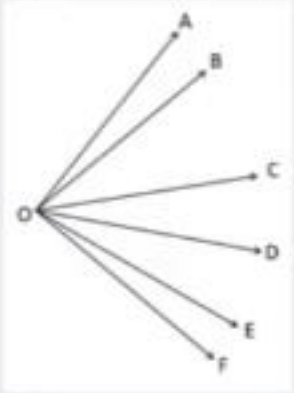
Q.13 What is the total number of angles made by the SIX rays as shown in the figure? [Marks:1]

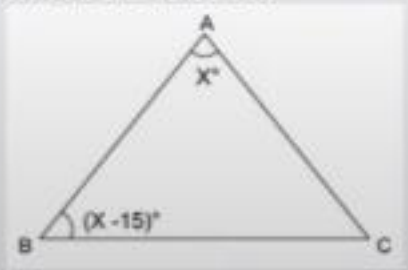


- Correct Answer : 15

Q.14 An angle is 30° more than its complement. What is the measure (in °) of the angle? [Marks:1]

- Correct Answer : 60

Q.15 $In\ \Delta\ ABC, AB = AC, \angle A = x^0, \angle B = (x - 15)^0$, then what is the value of x [Marks:1]



- Correct Answer : 70

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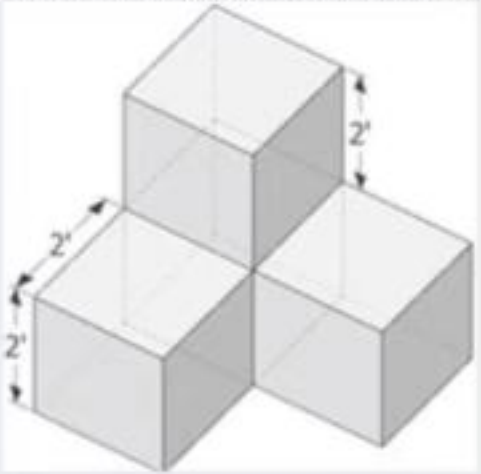
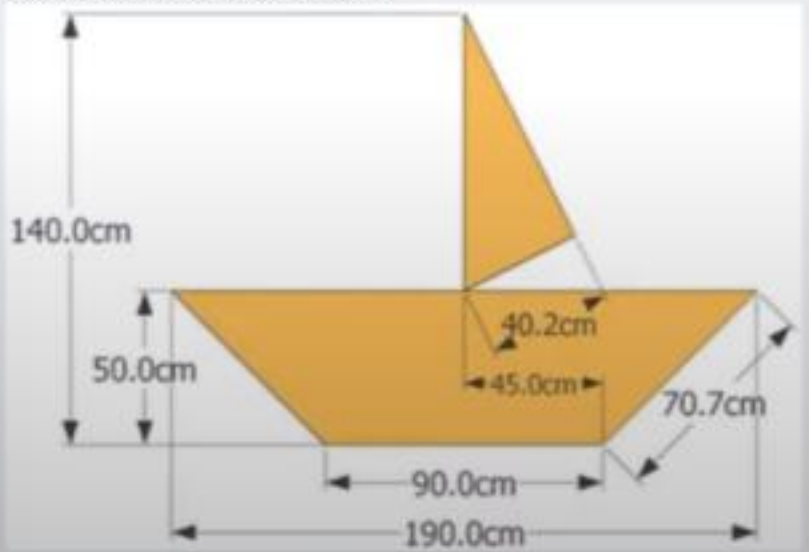
Q.16 The given composition is made up of four cubes (2' side) of all equal sizes and they have to be painted with red colour. Calculate the total surface area **(in sq. ft.)** required to be painted. [Marks:1]



- Correct Answer : 72

Q.17 Calculate the area of the given figure. [Marks:1]



- Correct Answer : 8618

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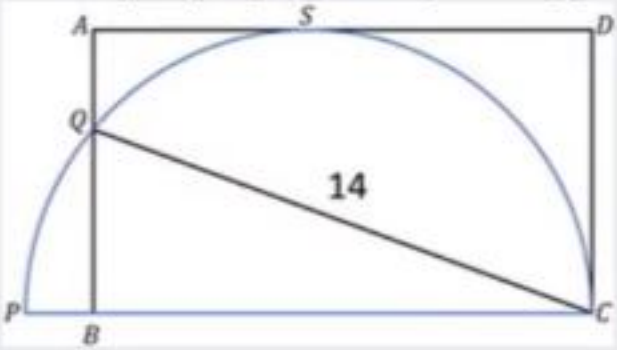
Q.18 Find the area **(in sq units)** of the rectangle from the given figure if length of QC is 14 units [Marks:1]



- Correct Answer : 98

Q.19 **How many surfaces does the given solid have?** [Marks:1]



- Correct Answer : 20

Q.20 A clock is showing 30 minutes past 3 hours. What is the angle formed between the hours & minutes hand in degrees? [Marks:1]

- Correct Answer : 75

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Paragraph:

If a person suddenly encounters any terrible danger, the change of nature one undergoes is equally great. Sometimes fear numbs our senses. Like animals, one stands still, powerless to move a step in fright or to lift a hand in defense of our lives, and sometimes one is seized with panic, and again, act more like the inferior animals than rational beings. On the other hand, frequently in cases of sudden extreme peril, which cannot be escaped by flight, and must be instantly faced, even the most timid men at once as if by miracle, become possessed of the necessary courage, sharp quick apprehension and swift decision.

This is a miracle very common in nature. Man and the inferior animals alike, when confronted with almost certain death ' gather resolution from despair' but there can really be no trace of so debilitating a feeling in the person fighting, or prepared to fight for dear life. At such times the mind is clearer than it has ever been; the nerves are steel, there is nothing felt but a wonderful strength and daring. Looking back at certain perilous moments in my own life, I remember them with a kind of joy, not that there was any joyful excitement then, but because they broadened my horizon, lifted me for a time above myself.

Q.21 The title that best suits the passage would be [Marks:1]

Options :

a. The Will to Fight
b. The Miracle of Confronting Danger
c. The Change of Nature
d. Courage and Panic

- Correct Answer : B

Q.22 A man may react to sudden danger in three different ways. What are they? [Marks:1]

Options :

a. He may flee in panic, or fight back or stand still.
b. He may be paralyzed with fear, seized with panic or act like an inferior animal.
c. He may be paralyzed with fear, or seized with panic, or as if by miracle, become possessed of the necessary courage, and face the danger.
d. He may be paralyzed with fear, run away or fight.

- Correct Answer : C

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Q.23 What is the meaning of the word debilitating? [Marks:1]

Options :

a. incapacitating
b. strengthen
c. debase
d. thriving

- Correct Answer : A

Q.24 Explain the phrase 'gather resolution from danger'. [Marks:1]

Options :

a. Find peace in times of difficulty.
b. A state of utter hopelessness makes one determined to face the difficulty.
c. To remain calm and not to lose hope.
d. To be enthusiastic and brave the odds.

- Correct Answer : B

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Paragraph:

Sportsmanship can be conceptualized as an enduring and relatively stable characteristic or disposition such that individuals differ in the way they are generally expected to behave in sports situations. In general, sportsmanship refers to virtues such as fairness, self-control, courage, and persistence, and has been associated with interpersonal concepts of treating others and being treated fairly, maintaining self-control if dealing with others, and respect for both authority and opponents. Sportsmanship is also looked at as being the way one reacts to a sportgameplayer.

The four elements of sportsmanship are often shown being good form, the will to win, equity and fairness. All four elements are critical and a balance must be found among all four for true sportsmanship to be illustrated. Today"s sporting culture, in particular the base of elite sport, places great importance on the idea of competition and winning and thus sportsmanship takes a back seat as a result. In most, if not all sports, sportsmen at the elite level make the standards on sportsmanship and no matter whether they like it or not, they are seen as leaders and role models in society.

Since every sport is rule driven, the most common offence of bad sportsmanship is the act of cheating or breaking the rules to gain an unfair advantage. A competitor who exhibits poor sportsmanship after losing a game or contest is often called a "sore loser", while a competitor who exhibits poor sportsmanship after winning is typically called a "bad winner".

Q.25 Is it necessary to strike a balance between all the four elements of sportsmanship? [Marks:1]

Options :

a. No
b. Yes
c. Any 2 can be balanced
d. Only 1 is sufficient

- Correct Answer : B

Q.26 Why has sportsmanship taken a backseat today? [Marks:1]

Options :

a. Due to lack of balance between the elements
b. Due to the emphasis on winning
c. Due to drug abuse
d. None of the above

- Correct Answer : B

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Q.27 If one does not accept responsibility for one's defeat, one is called a: [Marks:1]

Options :

a. Sore loser
b. Bad winner
c. Good sportsman
d. Prudent sportsman

- Correct Answer : A

Q.28 From the last paragraph, give the opposite of the word 'deep': [Marks:1]

Options :

a. Competitor
b. Pitch
c. Immature
d. Shallow

- Correct Answer : D

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Paragraph:

Dogs and cats should never be permitted to eat chocolate, because chocolate works like a poison in their bodies. Chocolate contains a chemical called theobromine, which is similar to caffeine. Human bodies are able to process the theobromine without any ill side effects, but dogs and cats cannot.

Different types of chocolate contain different amounts of theobromine. It would take 20 ounces of milk chocolate to kill a 20-pound dog, but only two ounces of baker's chocolate or six ounces of semisweet chocolate. The amounts, of course, are much smaller for a cat, whose body weight is typically less than that of a dog.

Most cats are not naturally attracted to eating chocolate, but many dogs are. Dogs by nature will sample nearly anything that they see their masters eating, so pet owners must take care to keep all chocolate products well out of reach of their dogs and cats.

Q.29 According to the passage, why is chocolate poisonous for dogs and cats? [Marks:1]

Options :

a. It contains caffeine.
b. Chocolate is made from processed cocoa.
c. It gets stuck in their intestines.
d. They cannot process theobromine

- Correct Answer : A

Q.30 How much milk chocolate would be poisonous to a cat, according to the passage? [Marks:1]

Options :

a. substantially less than 20 ounces
b. substantially more than 20 ounces
c. approximately one pound
d. half a Hershey bar

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Q.31 Why might a dog eat chocolate, according to the passage? [Marks:1]

Options :

a. Because it tastes good.
b. Dogs won't eat chocolate.
c. They can smell the theobromine.
d. Dogs like to imitate their owners

- Correct Answer : D

Q.32 What best summarizes this passage? [Marks:1]

Options :

a. Look before you leap.
b. Pet food for pets, people food for people.
c. Monkey see, monkey do.
d. A penny saved is a penny earned.

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Paragraph:

Theodore Roosevelt was born with asthma and poor eyesight, yet this sickly child later won fame as a political leader, a Rough Rider, and a hero of the common people. To conquer his handicaps, Teddy trained in a gym and became a lightweight boxer at Harvard. Out west, he hunted buffalo and ran a cattle ranch. Back east, he became a civil service reformer and police commissioner. He became President McKinley's assistant Navy secretary during the Spanish-American War. Also, he led a charge of cavalry Rough Riders up San Juan Hill in Cuba. After achieving fame, he became governor of New York and went on to become the vice president.

When McKinley was assassinated, Theodore Roosevelt became the youngest president at age 42. He is famous for his motto, "Speak softly and carry a big stick." Roosevelt battled for meat inspection and pure-food laws. Also, he wanted to save the forests and break the grip that big business had on steel and oil. Roosevelt persuaded the diplomats of warring Russia and Japan to make peace.

Q.33 Which of the following states the main idea of the passage? [Marks:1]

Options :

a. Theodore Roosevelt was a man of many accomplishments.
b. Presidents should speak softly and carry big sticks.
c. Presidents can help countries make peace.
d. A governor can become a president.

- Correct Answer : A

Q.34 What achievement illustrates Roosevelt's ability to overcome personal obstacles? [Marks:1]

Options :

a. He led a charge of cavalry Rough Riders in Cuba.
b. He is famous for his motto, "Speak softly and carry a big stick."
c. He overcame his asthma by training in a gym, and he became a boxer.
d. He became governor of New York

- Correct Answer : C

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Q.35 According to the passage, how did Roosevelt first become president? [Marks:1]

Options :

a. He won the support of his party in a political campaign.
b. As vice president, he took over the presidency when McKinley was assassinated.
c. He won the nation's popular vote.
d. He won the necessary Electoral College votes

- Correct Answer : B

Q.36 He first worked under President McKinley in what capacity? [Marks:1]

Options :

a. Assistant Navy secretary during the Spanish-American War
b. Police commissioner
c. Governor of New York
d. Civil service reformer

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Paragraph:

The Indian Premier League (IPL) is a professional annual Twenty20 cricket tournament in India organized by the IPL Governing Council, under the aegis of the Board of Control for Cricket in India (BCCI) in 2008. It is regarded as the brainchild of Lalit Modi, the founder and former commissioner of the league. IPL currently consists of eight teams in eight cities across India and as of November 2020 there have been thirteen seasons of the IPL tournament.

The IPL is the most-attended cricket league in the world and in 2014 ranked sixth by average attendance among all sports leagues. In 2010, the IPL became the first sporting event in the world to be broadcast live on YouTube. The brand value of IPL in 2018 was US$6.3 billion, according to Duff & Phelps. According to BCCI, the 2015 IPL season contributed Rs.11.5 billion (US$182 million) to the GDP of the Indian economy.

During the eleventh season in year 2018 the Chennai Super Kings emerged as the IPL title holders and the team that was crowned the Indian Premier League Champion in 2020 was Mumbai Indians

Q.37 What is the opposite of the word "professional" w.r.t it's usage in the passage? [Marks:1]

Options :

a. Competent
b. Amateur
c. Master
d. Polished

- Correct Answer : B

Q.38 In which year did IPL became the first sporting event to be broadcast live on an online platform? [Marks:1]

Options :

a. 2011
b. 2010
c. 2008
d. 2012

- Correct Answer : B

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Q.39 How many seasons of IPL have been played till 2018? [Marks:1]

Options :

a. 10
b. 12
c. 11
d. 9

- Correct Answer : C

Q.40 According to Duff & Phelps, the brand value of IPL in 2018 was [Marks:1]

Options :

a. Rs.11.5 billion
b. US $182 million
c. Rs. 6.3 billion
d. US $6.3 billion

- Correct Answer : D

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Q.41 With reference to a swinging pendulum, which among the following statements is correct when it is at bottom (middle of arc)? [Marks:1]

Options :

a. It has maximum kinetic energy and minimum potential energy
b. It has maximum potential energy and minimum kinetic energy
c. It has zero kinetic energy
d. It has zero total energy

- Correct Answer : A

Q.42 Walking on a beach sand is more difficult than walking on a concrete road because [Marks:1]

Options :

a. the sand is grainy but concrete is smooth
b. the friction between sand and feet is more than that between concrete and feet
c. sand is soft and concrete is hard
d. the friction between sand and feet is less than that between concrete and feet

- Correct Answer : D

Q.43 The spray bottles used as window or household cleaner or perfume spray works on: [Marks:1]

Options :

a. Capillary action
b. Bernoulli's Principle
c. Pascal's Law
d. Stoke's Law

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Q.44 The highest temperature will be attained inside the pressure cooker operated with the pressure valve open in which of the four locations mentioned below [Marks:1]

Options :

a. at the top of Mt. Everest
b. in a valley below sea level
c. on a boat at sea
d. in an aero plane flying at a height of 10km with inside pressure maintained

- Correct Answer : B

Q.45 $M^1 L^2 T^0$ is the dimensional formula for [Marks:1]

Options :

a. moment of inertia
b. elasticity
c. couple acting on a body
d. pressure

- Correct Answer : A

Q.46 What is the effect of increase of temperature on the speed of sound? [Marks:1]

Options :

a. No effect
b. it increases
c. it decreases
d. it may or may not increase

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Q.47 An optical illusion known as mirage is due to [Marks:1]

Options :

a. depletion of ozone layer in the atmosphere
b. equal heating of different parts of the atmosphere
c. unequal heating of different parts of the atmosphere
d. magnetic disturbances in the atmosphere

- Correct Answer : C

Q.48 On a cold day when a room temperature is 18°C, the metallic cap of a pen becomes much colder than its plastic body, though both are at the same temperature of 18°C, because [Marks:1]

Options :

a. metals are good conductors of heat
b. plastics have a higher thermal conductivity than metals
c. plastics have a lower density than metals
d. metals have higher thermal capacity than plastics

- Correct Answer : A

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Q.49 Magnetism at the center of a bar magnet is [Marks:1]

Options :

a. minimum towards geographic south
b. maximum
c. minimum
d. zero

- Correct Answer : D

Q.50 On a rainy day, small oil films on water show brilliant colours. This is due to [Marks:1]

Options :

a. Polarization
b. Diffraction
c. Dispersion
d. Interference

- Correct Answer : D

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Q.51 In which state is the '*Valley of Flowers National Park*'? [Marks:1]

Options :

a. Jammu and Kashmir
b. Himachal Pradesh
c. Uttarakhand
d. Haryana

- Correct Answer : C

Q.52 In which country was the Olympics hosted in the year 2016? [Marks:1]

Options :

a. Brazil
b. China
c. England
d. Japan

- Correct Answer : A

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Q.53 Which of the following has a potential for harnessing of tidal energy in India? [Marks:1]

Options :

a. Backwaters of Kerala
b. Gulf of Mannar
c. Gulf of Cambay
d. Chilka lake

- Correct Answer : C

Q.54 Which of the following churches in Europe suffered a devastating fire in the year 2019 on April 15? [Marks:1]

Options :

a. The Salisbury Cathedral, Salisbury, England
b. The Notre-Dame Cathedral in Paris, France
c. The Basílica de la Sagrada Família, Barcelona, Spain
d. The Duomo di Milano, Milan, Italy

- Correct Answer : B

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Q.55 Which among the following countries has the longest coastline? [Marks:1]

Options :

a. United States of America
b. Russia
c. India
d. Norway

- Correct Answer : D

Q.56 The last ruler of the Mughal dynasty was [Marks:1]

Options :

a. Babur
b. Akbar
c. Bahadurshah Zafar
d. Sher Shah Suri

- Correct Answer : C

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Q.57 Which among the following United Nations agencies is responsible for providing humanitarian and developmental aid to children worldwide? [Marks:1]

Options :

a. WHO
b. UNEP
c. UNHCR
d. UNICEF

- Correct Answer : D

Q.58 What is the ratio between the length and breadth of the Indian national flag -Tiranga? [Marks:1]

Options :

a. 3: 5
b. 1: 3
c. 2: 2.5
d. 4: 6

- Correct Answer : D

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Q.59 **"Architecture Without Architects"** is a book by Bernard Rudofsky originally published in 1964 providing a demonstration of the artistic, functional, and cultural richness in local architectures and common buildings. [Marks:1]

Choose from the given options below the **primary topic of the book.**

Options :

a. Modern Architecture
b. Deconstructive Architecture
c. Monumental architecture
d. Vernacular Architecture

- Correct Answer : D

Q.60 Epigraphy is the study of ancient _____. [Marks:1]

Options :

a. Pottery
b. Epics
c. Inscriptions
d. Monuments

- Correct Answer : C

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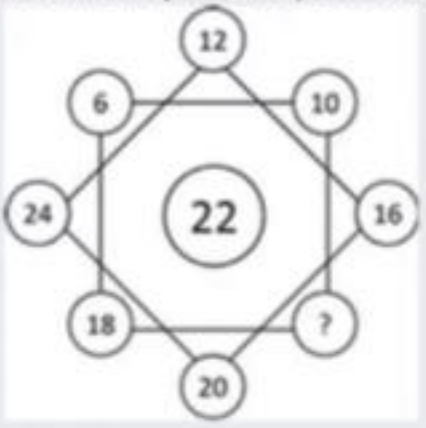
Q.61 Which number replaces the question mark? [Marks:2]



Options :

a. 12
b. 14
c. 16
d. 18

- Correct Answer : B

Q.62 Which number replaces the question mark? [Marks:2]

4	GNU	2
3	RBS	9
4	TUA	2
2	FPC	5
4	OLU	?

Options :

a. 6
b. 2
c. 8
d. 4

- Correct Answer : C

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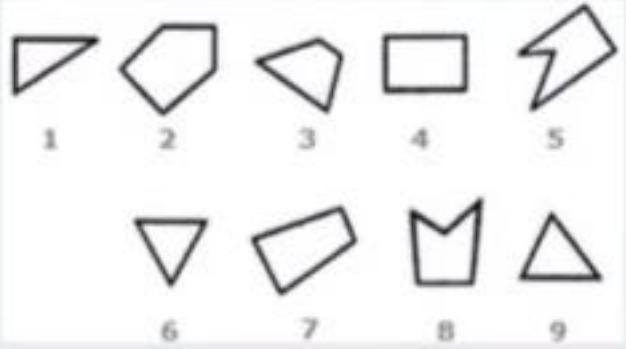
Q.63 The following shapes can be grouped into 3 distinct classes. From among the choices given identify the three classes into which these shapes can be grouped. [Marks:2]



Options :

a. 1,6,8 ; 3,4,7 ; 2,5,9

b. 7,8,9 ; 2,4,3 ; 1,5,6

c. 1,6,9 ; 3,4,7 ; 2,5,8

d. 1,3,2 ; 4,5,7 ; 6,8,9

- Correct Answer : C

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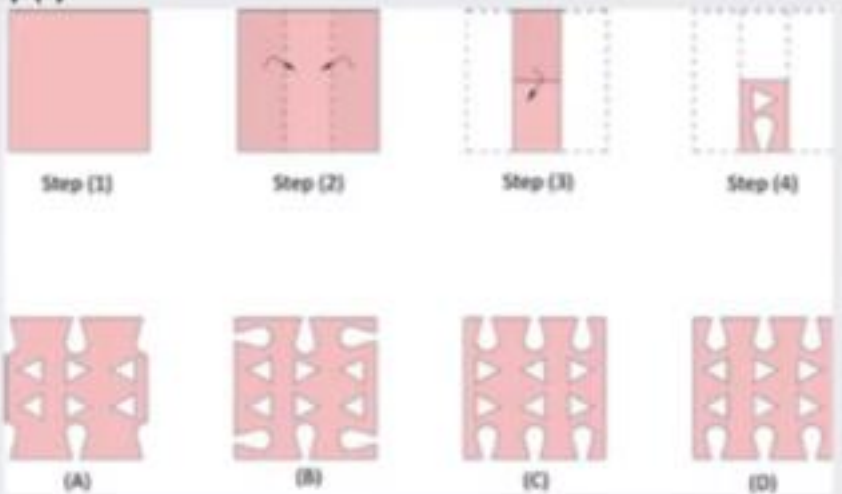
Q.64 Choose a figure from the given choices which would most closely resemble the **folded form of** [Marks:2]

Step (4)



Options :

a. A

b. B

c. C

d. D

- Correct Answer : C

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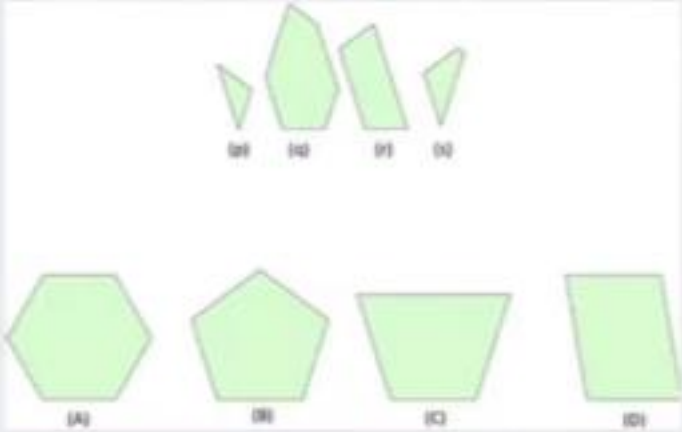
Q.65 The shapes **(p) (q) (r) (s)** may be arranged to form which of the given basics shapes below. [Marks:2]
The shapes may be moved along XY axis to arrive at the given shape.



Options :

a. A
b. B
c. C
d. D

- Correct Answer : B

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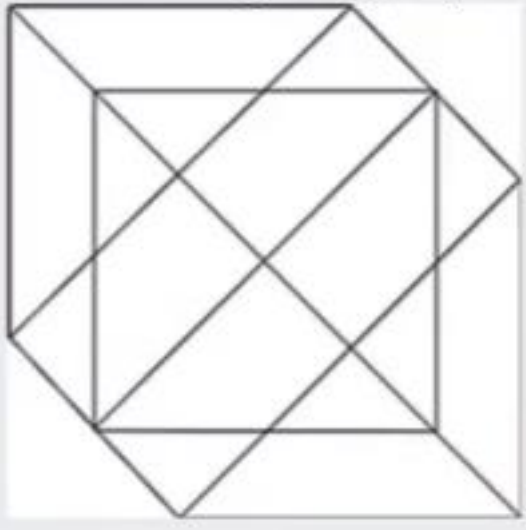
Q.66 Find the number of triangles in the given figure. [Marks:2]



Options :

a. 20

b. 32

c. 18

d. 24

- Correct Answer : D

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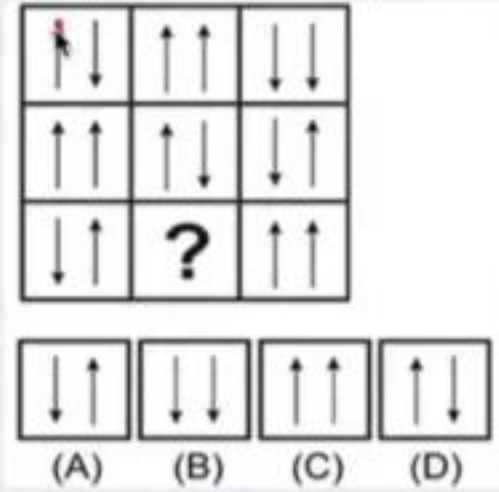
Q.67 Find the figure which replaces the question mark. [Marks:2]



Options :

a. A
b. B
c. C
d. D

- Correct Answer : B

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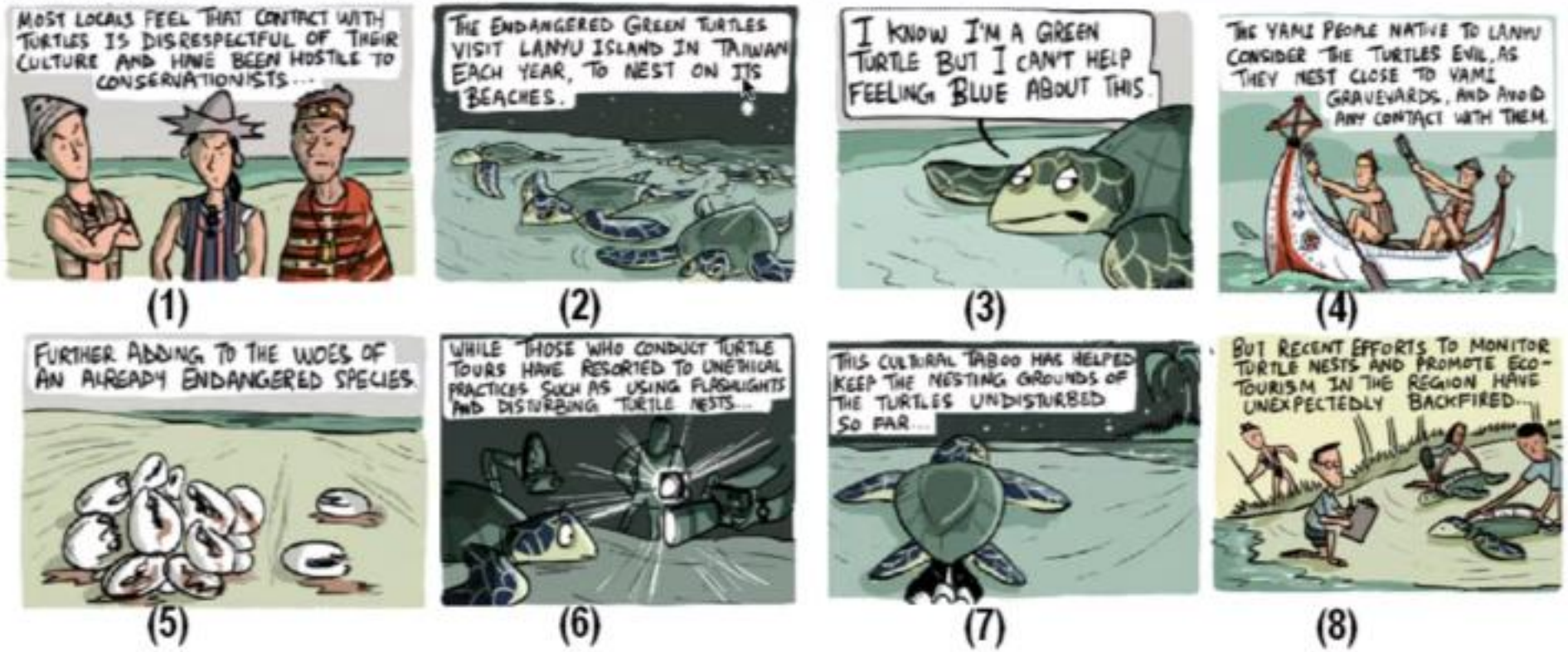
Q.68 Choose the correct sequence of the comic strip.

[Ma



Options :

a. 1, 5, 6, 7, 2, 3, 8, 4

b. 2, 4, 7, 8, 1, 6, 5, 3

c. 6, 3, 1, 7, 2, 5, 8, 4

d. 3, 4, 7, 1, 6, 2, 8, 5

- Correct Answer : B

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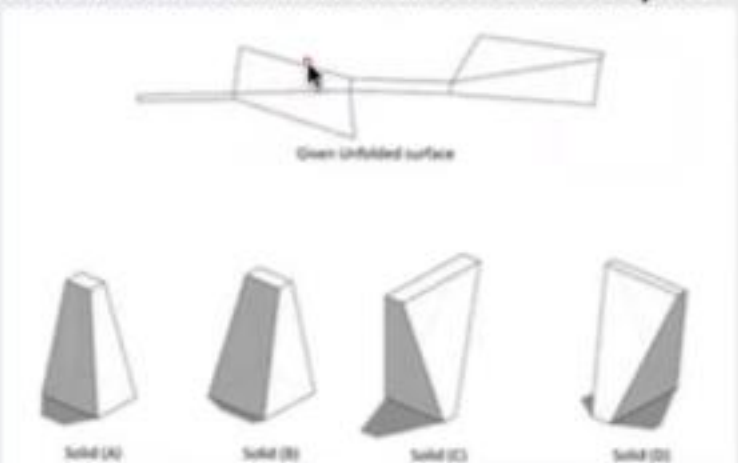
Q.69 Identify the correct solid which can be formed if the unfolded surfaces are joined [Marks:2]



Options :

a. Solid A
b. Solid B
c. Solid C
d. Solid D

- Correct Answer : D

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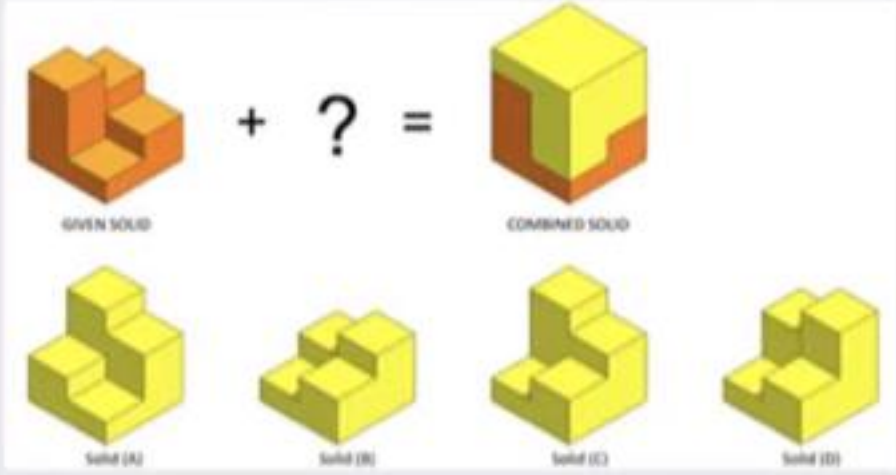
Q.70 Choose the solid which replaces the question mark to make the combined solid [Marks:2]



Options :

a. Solid A
b. Solid B
c. Solid C
d. Solid D

- Correct Answer : C

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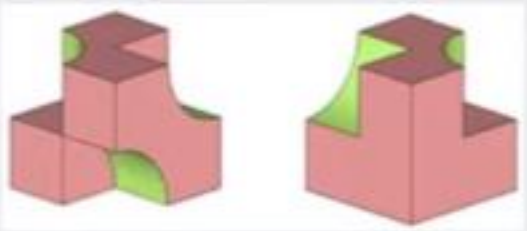
Q.71 The figure given below are views of a solid from two different sides. Find the number of surfaces for the given soild. [Marks:2]

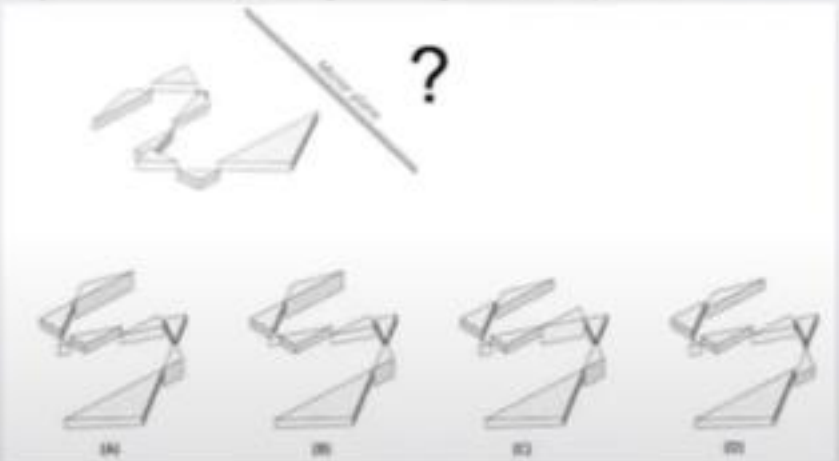


Options :

a. 10
b. 11
c. 12
d. 13

- Correct Answer : D

Q.72 Identify the corret MIRROR image for the given 3D composition [Marks:2]



Options :

a. A
b. B
c. C
d. D

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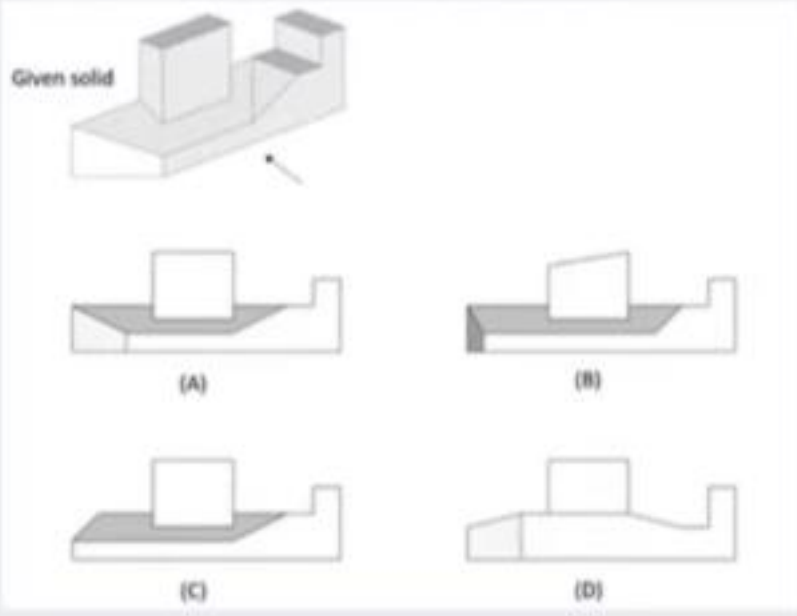
Q.73 Choose the correct side elevation for the given soild. [Marks:2]



Options :

a. A
b. B
c. C
d. D

- Correct Answer : A

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Q.74 If all the sides of the given three dimensional composition are the same, what are the total number of cubes in the three dimensional composition? [Marks:2]



Options :

a. 20

b. 24

c. 28

d. 32

- Correct Answer : B

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Q.75 For the given one point street perspective, choose the human which is depicted wrong if all the humans are assumed to be same height at 1.8m tall. [Marks:2]



Options :

a. Blue Human

b. Yellow Human

c. Red Human

d. Green human

- Correct Answer : C

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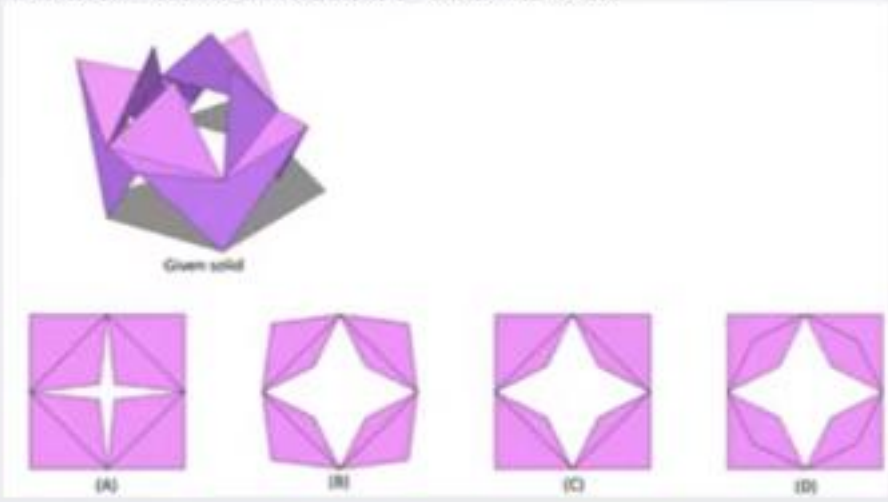
Q.76 Identify the correct top view for the given paper fold work. [Marks:2]



Options :

a. A
b. B
c. C
d. D

- Correct Answer : C

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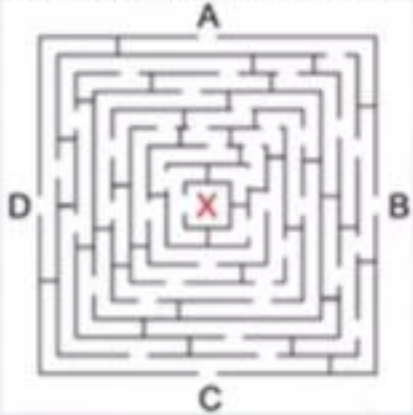
Q.77 Which of the folowing given openings A,B,C and D will lead to X? [Marks:2]



Options :

a. A
b. B
c. C
d. D

- Correct Answer : C

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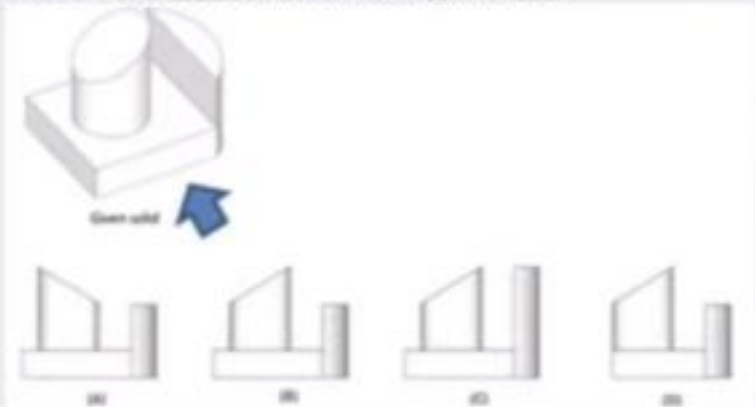
Q.78 Choose the correct side elevation for the given solid. [Marks:2]



Options :

a. A
b. B
c. C
d. D

- Correct Answer : B

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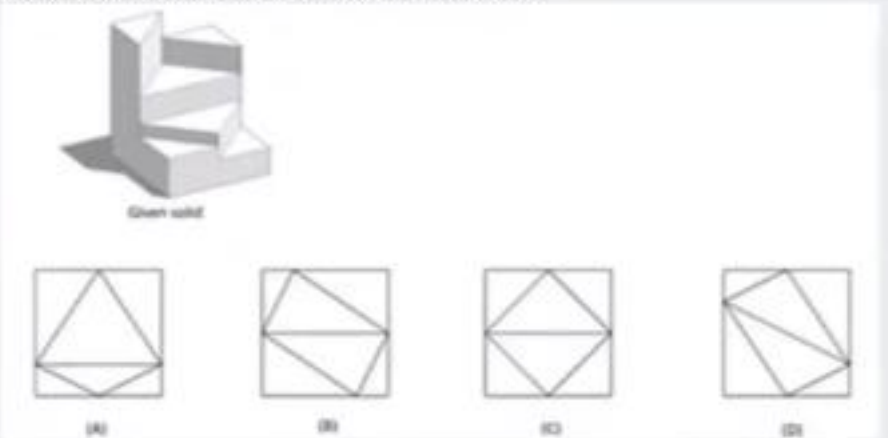
Q.79 Choose the correct top view for the given 3D solid. [Marks:2]



Options :

a. A
b. B
c. C
d. D

- Correct Answer : C

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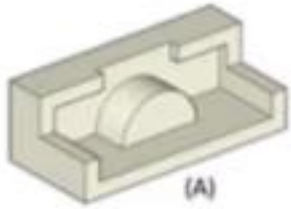
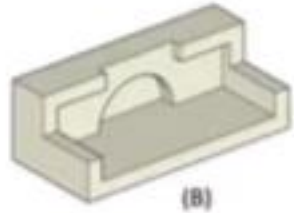
Q.80 Choose the correct 3D object for the given elevation with shadows. [Marks:2]



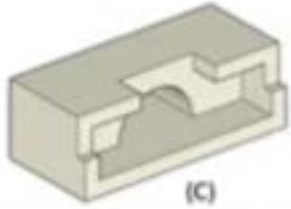
Given elevation



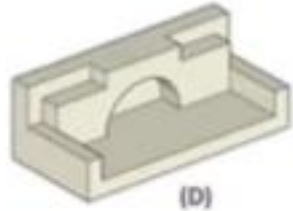
(A)



(B)



(C)



(D)

Options :

a. A
b. B
c. C
d. D

- Correct Answer : B

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Q.81 What is represented by the image below: [Marks:2]



Options :

a. Military School
b. Bank
c. Industry Brand
d. Building product

- Correct Answer : B

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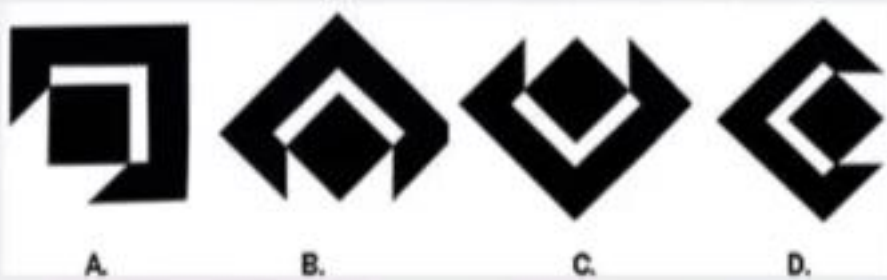
Q.82 Identify the correct orientation of the SAIL logo from the given images [Marks:2]



Options :

a. A
b. B
c. C
d. D

- Correct Answer : B

Q.83 Identify the purpose of the product given below: [Marks:2]



Options :

a. Chandelier
b. Umbrella Stand
c. Birds Nests
d. Water filter

- Correct Answer : B

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Q.84 Identify the logo from the given image. [Marks:2]



Options :

a. B.A.R.C.
b. IISER
c. ICAR
d. IIT

- Correct Answer : D

Q.85 Identify the image of the sign board shown below [Marks:2]



Options :

a. Elevator
b. Stop
c. Assembly point
d. Enquiry

- Correct Answer : C

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Q.86 In TIFF format 'T' stands for which of the following? [Marks:2]

Options :

a. Transfer
b. Twin
c. Tag
d. Transparent

- Correct Answer : C

Q.87 In PNG, letter 'P' stands for which of the following? [Marks:2]

Options :

a. Portable
b. Percentage
c. Paired
d. Pixel

- Correct Answer : A

Q.88 What is the image give below known as? [Marks:2]



Options :

a. Golden Man
b. Leonardo Man
c. Vitruvian Man
d. Corbusier Man

- Correct Answer : C

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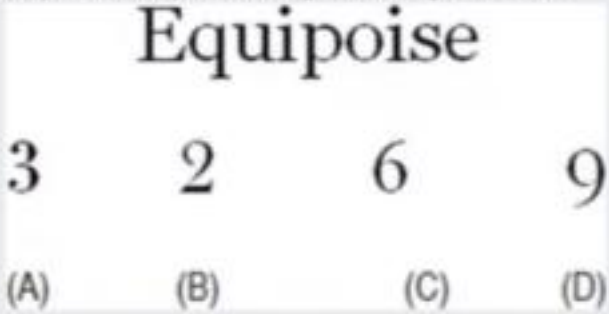
Q.89 Identify the font style matching the word given below: [Marks:2]



Options :

a. A
b. B
c. C
d. D

- Correct Answer : D

Q.90 Identify the Artist of the given artwork [Marks:2]



Options :

a. M F Hussain
b. Jamini Roy
c. Amrita Sher Gil
d. S H Raza

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Q.91 The given potrait is of an Indian artist. Identify the person from the options given below: [Marks:2]



Options :

a. Amrita Sher Gill
b. Sarojini Naidu
c. Savithribai Phule
d. Kalpana Chawala

- Correct Answer : A

Q.92 Which era does the figurine given below symbolize? [Marks:2]



Options :

a. Greek
b. Indus Valley
c. Prehistoric
d. Egyptian

- Correct Answer : B

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Q.93 Name the artist who painted the art work below - **Three Pujarins** [Marks:2]



Options :

a. Satyajit Ray
b. B V Doshi
c. Jamini Roy
d. M F Hussain

- Correct Answer : C

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Q.94 From the choices given below choose the painting '**Glow of Hope**' by the Indian painter Sawlaram Haldankar. [Marks:2]


(A)


(B)


(C)


(D)

Options :

a. A

b. B

c. C

d. D

- Correct Answer : A

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Q.95 The image given below is of a school built in Africa designed by architect Diébédo Francis Kéré . What is the purpose of the secondary metal roof? [Marks:2]



Options :

a. to better insulate the building
b. to protect from sand storm
c. to collect rain water
d. to protect from lightning

- Correct Answer : A

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Q.96 The given picture is an example of _____ found on the upper most floor of Casa Mila in Barcelona. [Marks:2]



Options :

a. Vaults
b. Catenary Arch
c. Pointed Arch
d. Barrel vault

- Correct Answer : B

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Q.97 The Millennium Dome is the largest _____ in the world. [Marks:2]



Options :

a. Domed-shaped truss structure

b. Domed-shaped Suspension structure

c. Domed-shaped concrete shell structure

d. Domed-shaped tensile structure

- Correct Answer : B

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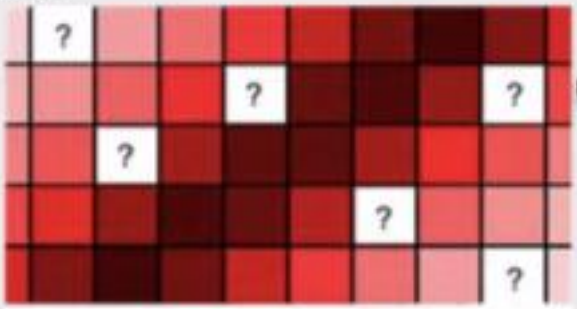
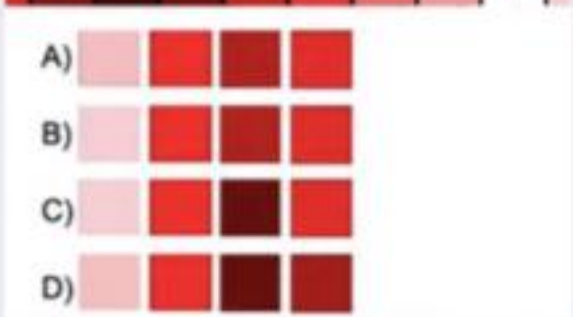
Q.98 Which colours from the given options will replace the question marks in the given colour palette. [Marks:2]





Options :

a. A
b. B
c. C
d. D

- Correct Answer : A

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Q.99 If the given image below shows the visible spectrum with wavelengths from 380 nm to 750 nm what may be the wavelength of green? [Marks:2]



Options :

a. 590 - 625 nm

b. 450 - 485 nm

c. 500 - 565 nm

d. 645 - 725 nm

- Correct Answer : C

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Q.100 Identify the colour scheme for the given picture. [Marks:2]



Options :

a. Analogous

b. Triadic

c. Complementary

d. Monochrome

- Correct Answer : C

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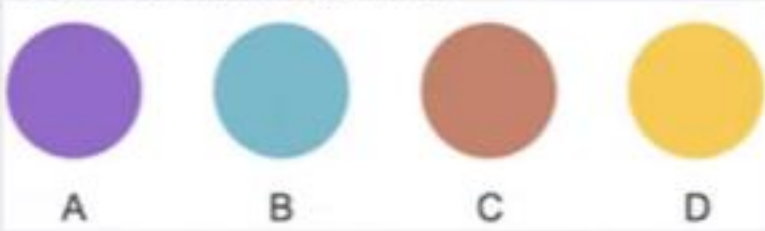
Q.101 Which colour best depicts the emotion fear? [Marks:2]



Options :

a. A
b. B
c. C
d. D

- Correct Answer : A

Q.102 VIBGYOR in color theory was the result of the discovery made by which of the following persons? [Marks:2]

Options :

a. Pieter Van Musschenbroek
b. Sir Isaac Newton
c. Claude Boutet
d. A H Munsell

- Correct Answer : B

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Q.103 Identify the sequence of A- B- C- D colors [Marks:2]



Options :

a. Red, Yellow, Blue, Black
b. Grey, Yellow, Red, Blue
c. Red, Yellow, Green, Blue
d. Green, Blue, Red, Yellow

- Correct Answer : D

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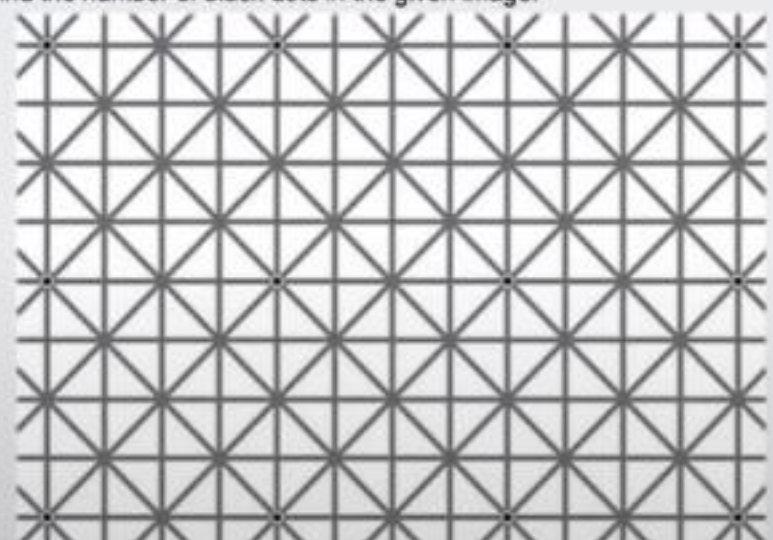
Q.104 In CMYK black is represented by which of the folowing letters? [Marks:2]

Options :

a. M
b. K
c. Y
d. C

- Correct Answer : b

Q.105 Find the number of black dots in the given image. [Marks:2]



- Correct Answer : 12

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Q.106 How many circles are there in the given image? [Marks:2]

Options :

a. 20
b. 28
c. 31
d. 58

- Correct Answer : a

Q.107 How many differences are there in the two pictures? [Marks:2]



- Correct Answer : 7

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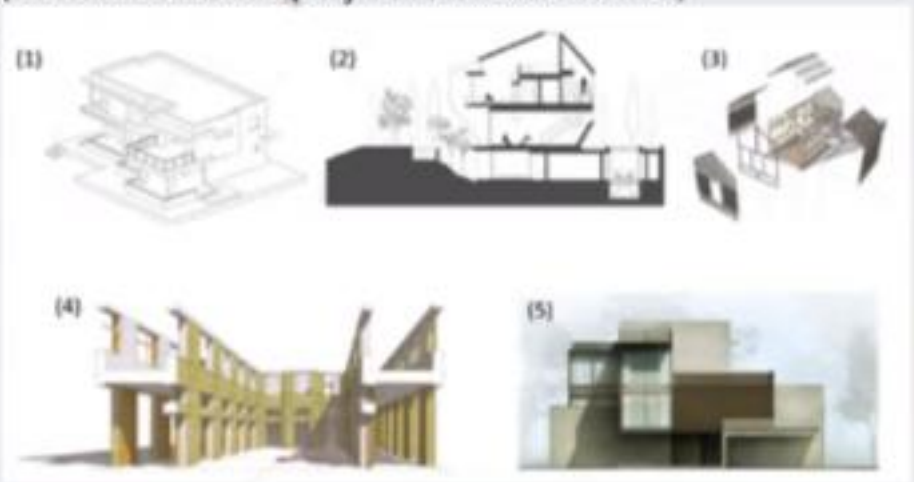
Q.108 Match the correct architectural representations from the options outlined with the images given below. [Marks:2]
(Marks will be awarded only if all answers are correct)



A) Sectional perspective
B) Exploded view
C) Elevation
D) Section
E) Isometric view

Options :

a. 1
b. 2
c. 3
d. 4
e. 5

p. A
q. B
r. C
s. D
t. E

- **Correct Answer :** a-t,b-s,c-q,d-p,e-r

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Q.109 Match the correct Indian art form from the options outlined with the images given [Marks:2] below.
(Marks will be awarded only if all answers are correct)



A) Madhubani
B) Kalamkari
C) Tanjore painting
D) Warli Art
E) Miniature painting

Options :

a. 1
b. 2
c. 3
d. 4
e. 5

p. A
q. B
r. C
s. D
t. E

- **Correct Answer :** a-r,b-p,c-s,d-t,e-q

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Q.110 Identify the places to which the different building images as given below belong to. [Marks:2]
(Marks will be awarded only if all answers are correct)











A) N Delhi
B) Bijapur
C) New York
D) Mumbai
E) London

Options :

a. 1
b. 2
c. 3
d. 4
e. 5

p. A
q. B
r. C
s. D
t. E

- Correct Answer : a-r,b-t,c-q,d-p,e-s

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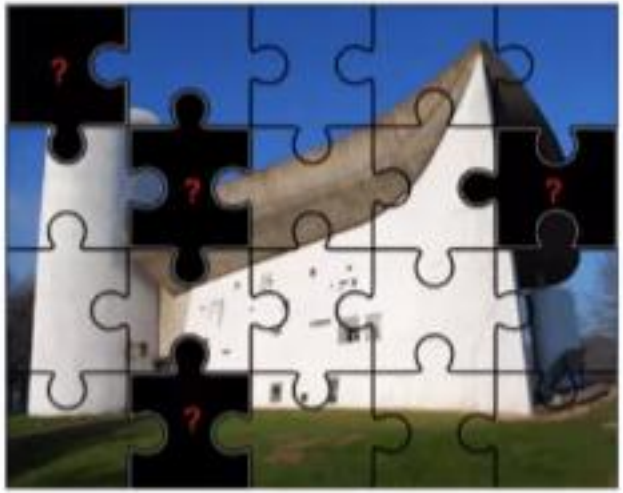
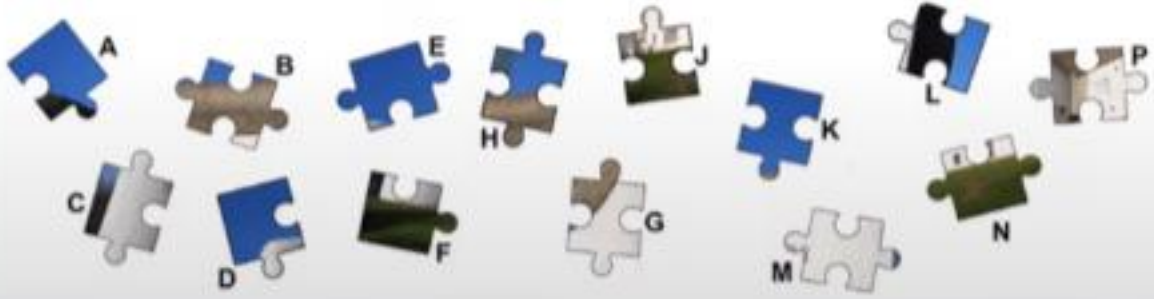
Q.111 Find the missing pieces which will complete the puzzle. [Mark

(Marks will be awarded only if all answers are correct)





Options :

a. A
b. B
c. C
d. D
e. E
f. F
g. G
h. H
i. p
j. J
k. K
l. L
m. M
n. N

- Correct Answer : d,h,j,l

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Q.112 The given photograph is from BIG architects Serpantine Pavilion 2016 at London. [Marks:2]
Observe and Choose any **four most appropriate visual principles** incorporated in the drawing from among the choices given.
(Marks will be awarded only if all answers are right)

Options :

a. Rhythm
b. Axis
c. Dynamism
d. Symmetry
e. Monochromatic
f. Focus
g. Variety
h. Repetition

- Correct Answer : a,d,f,h

Q.113 The depicted drawing is a perspective by Giorgio Grassi who is one of Italy's most important modern architects. Choose any **four most appropriate visual principles** incorporated in the drawing from among the choices given. [Marks:2]
(Marks will be awarded only if all answers are right)

Options :

a. Imbalance
b. Direction
c. Symmetry
d. Focus
e. Axis
f. Fractal
g. Figure and Ground
h. Pattern

- Correct Answer : b,c,d,e

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Q.114 Choose any **four most appropriate design elements / principles** incorporated in the art work from among the choices given. [Marks:2]
(Marks will be awarded only if all answers are right)



Options :

a. Symmetry
b. Axis
c. Pattern
d. Repetition
e. Hierarchy
f. Shapes
g. Line
h. Direction

- **Correct Answer :** c,d,e,g

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Q.115 The given photograph shows the aerial view of the center of Madrid, Spain. Observe and Choose any **four most appropriate visual principles/ features** that describe the photograph. (Marks will be awarded only if all answers are correct) [Marks:2]

Options :

a. Plaza
b. Direction
c. Grid
d. Informal
e. Order
f. Hierarchy
g. Organic
h. Variety

- Correct Answer : a,d,g,h

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Paragraph:

Carefully observe the image given below. This image **will be displayed exactly for 30 seconds** and you will have to answer two questions based on this image.

Once viewed the image cannot be viewed again.



Q.116 How many employees wore a Blue Shirt / top in the displayed image? [Marks:3]

Options :

a. 4

b. 5

c. 6

d. 3

- Correct Answer : a

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Q.117 The image depicts which of the following? [Marks:3]

Options :

a. Hospital
b. Open office
c. Classroom
d. Hotel Lobby

- Correct Answer : b

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Q.124 In the displayed photograph how many people were standing in line wearing a mask? [Marks:3]

- Correct Answer : 4

Q.125 In the displayed photograph which of the following signs /posters were seen on the side wall? [Marks:3]

Options :

a. Life without pasta
b. Maintain Social Distance
c. An apple a day is the best advice
d. Engage in social media

- Correct Answer : a

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