

NATA 2020

National Aptitude Test in Architecture

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Participant Name :

Test Date : 29-Aug-2020

Test Name : PART-B

Q.1 What is the molecular mass of a glucose molecule?

Options :

- a. 192.422
- b. 80.619
- c. 240.896
- d. 180.162

- Chosen Option :
- Correct Answer: d

Q.2 What is the correct order of the metallic character of the fol

Options :

- a. B > Al > Mg > K
- b. Al > Mg > B > K
- c. Mg > Al > K > B
- d. K > Mg > Al > B

- Chosen Option :
- Correct Answer: d

Q.3 Dipole - Dipole interaction energy between rotating polar m
the distance between polar molecules as

Options :

- a. r
- b. r^3
- c. r^6
- d. r^2

- Chosen Option :
- Correct Answer: c

Q.4 Which one of the following is not a type of hydride?

Options :

- a. saline
- b. molecular
- c. metallic
- d. electrolytic

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- Chosen Option :
- Correct Answer: d

Q.5 Sodium hydroxide is manufactured by the

Options :

- Castner - Keller process
- Solvay process
- Mannheim process
- Hargreaves process

- Chosen Option :
- Correct Answer: a

Q.6 If 3rd, 6th & 11th terms of an Arithmetic Progression are in G.P. then the common ratio of the Geometric Progression is

Options :

- $\frac{4}{3}$
- $\frac{3}{5}$
- $\frac{3}{8}$
- $\frac{3}{11}$

- Chosen Option :
- Correct Answer: b

Q.7

The value of

$$3 \left[\sin^4 \left(\frac{3\pi}{2} - a \right) + \sin^4 (3\pi + a) \right] - 2 \left[\sin^6 \left(\frac{\pi}{2} + a \right) + \sin^6 (5\pi - a) \right]$$

Options :

- 0
- 1
- 3
- $\sin 4a + \cos a$

- Chosen Option : --
- Correct Answer: b

Q.8 If non-zero numbers a,b,c are in Harmonic Progression, then the line

$$\frac{x}{a} + \frac{y}{b} + \frac{1}{c} = 0 \text{ always passes through the fixed point}$$

Options :

- $(-1, -2)$
- $(-1, 2)$
-

$$\left(1, -\frac{1}{2}\right)$$

$$\left(1, -2\right)$$

- Chosen Option :
- Correct Answer: d

Q.9

The value of $\int_0^1 \sqrt{\frac{1-x}{1+x}} dx$ is

Options :

- a. $\frac{\pi}{2} + 1$
- b. $\frac{1}{\pi}$
- c. $\frac{\pi}{2} - 1$
- d. -1

- Chosen Option :
- Correct Answer: c

Q.10 The number of arrangements of the letters in the word 'PO' appear adjacently, is

Options :

- a. 40
- b. 60
- c. 80
- d. 120

- Chosen Option :
- Correct Answer: b

Q.11 If a charged spherical conductor of radius 10 cm has potential at the center, then the potential at the point at the distant 15

Options :

- a. $1/3$ V
- b. $3/2$ V
- c. 3 V
- d. $2/3$ V

- Chosen Option :
- Correct Answer: d

Q.12 The magnetic susceptibility is negative for

Options :

- a. Diamagnetic material
- b. Paramagnetic material
- c. Ferromagnetic material

d. Para & Ferromagnetic materials

- Chosen Option :
- Correct Answer: a

Q.13 A circular loop of radius R carrying current I lies in X -Y plane. The magnetic flux through X- Y Plane is

Options :

- a. Directly proportional to current I
- b. Directly proportional to radius R
- c. Directly proportional to R^2
- d. Zero

- Chosen Option :
- Correct Answer: d

Q.14 If we need peak load voltage of 40V out of a bridge rectifier, the value of secondary voltage

Options :

- a. 28.3 V
- b. 0 V
- c. 4.4 V
- d. 56.6 V

- Chosen Option :
- Correct Answer: a

Q.15 A potential barrier of 0.6 V exists across a PN junction, if the width of the region is 0.1 cm, what is the intensity of electric field in the region?

Options :

- a. $4 \times 10^5 \text{Vm}^{-1}$
- b. $5 \times 10^5 \text{Vm}^{-1}$
- c. $6 \times 10^5 \text{Vm}^{-1}$
- d. $2 \times 10^5 \text{Vm}^{-1}$

- Chosen Option :
- Correct Answer: c

Q.16 Tiling used to cover the lower most portion of the wall is termed as

Options :

- a. Dado
- b. Handrail
- c. Skirting
- d. Nosing

- Chosen Option :
- Correct Answer: c

Q.17 Which of the following material has the highest fire resistance?

Options :

- a. Wood

b. Stone

c. Fabric

d. Jute

- Chosen Option :
- Correct Answer: b

Q.18 Space left around or in front of a building is typically termed

Options :

a. Setback

b. Fore set

c. Inset

d. Offset

- Chosen Option :
- Correct Answer: a

Q.19 Typical reinforcements used in making RCC structures are

Options :

a. Wooden sticks

b. Steel rods

c. Brick

d. Aluminium bars

- Chosen Option :
- Correct Answer: b

Q.20 Which of the following is not suitable for building construction

Options :

a. Stainless steel

b. Beach sand

c. crushed stone

d. Wooden planks

- Chosen Option :
- Correct Answer: b

Q.21 Architect _____ is a pioneer of Modern architecture

Options :

a. Zaha Hadid

b. Rem Koolhaas

c. Antonio Gaudi

d. Walter Gropius

- Chosen Option :
- Correct Answer: d

Q.22 Five Points of Architecture is an architecture manifesto by

Options :

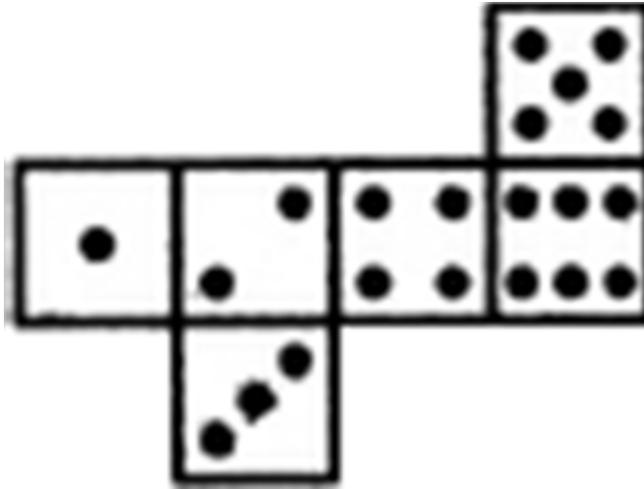
a. Zaha Hadid

b. Mies Van Der Rohe

- c. Le Corbusier
- d. Walter Gropius

- Chosen Option :
- Correct Answer: c

Q.23 When the following figure is folded to form a cube, how many faces will be bearing "three" dots?



Options :

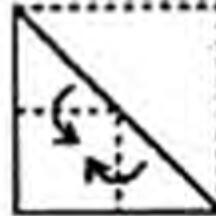
- a. 2
- b. 4
- c. 5
- d. 6

- Chosen Option :
- Correct Answer: c

Q.24 Choose a figure which would most closely resemble the u



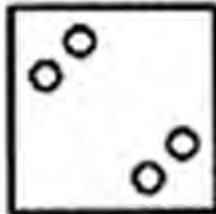
X



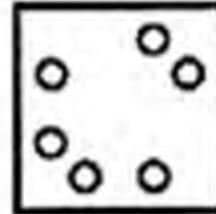
Y



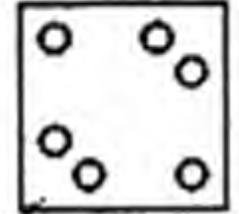
Z



(1)



(2)



(3)

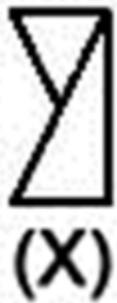
Options :

- a. figure (1)
- b. figure (2)
- c. figure (3)

d. figure (4)

- Chosen Option :
- Correct Answer: d

Q.25 Find out the alternative figure which contains figure (X) as

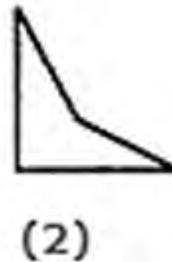
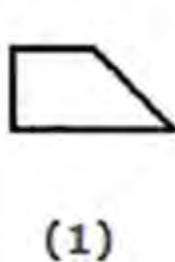


Options :

- a. figure (1)
- b. figure (2)
- c. figure (3)
- d. figure (4)

- Chosen Option :
- Correct Answer: c

Q.26 Select the alternative which represents three out of the five fitted into each other would form a complete square.



Options :

- a. (1) (3) (4)
- b. (1) (2) (4)
- c. (2) (3) (4)
- d. (3) (4) (5)

- Chosen Option :
- Correct Answer: a

Q.27 Choose the alternative which is closely resembles the Mir

D6Z7F4

(1) D0Z1E4

(2) D0Z1E4

(3) D0Z1E4

(4) D0Z1E4

Options :

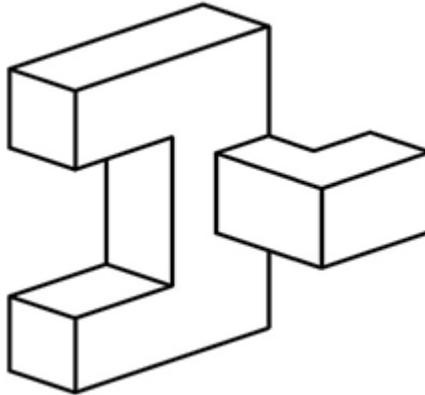
- a. figure (1)
- b. figure (2)

c. figure (3)

d. figure (4)

- Chosen Option : c
- Correct Answer: c

Q.28 The number of surfaces for the given object is:

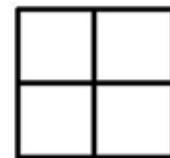
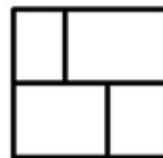
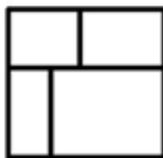
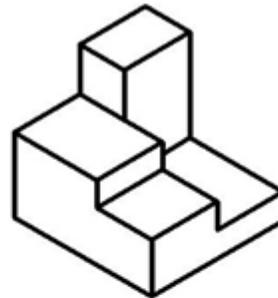


Options :

- a. 16
- b. 10
- c. 12
- d. 18

- Chosen Option :
- Correct Answer: a

Q.29 Identify the correct top view for the given 3D object

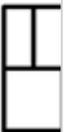
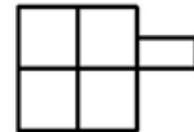
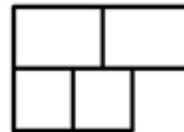
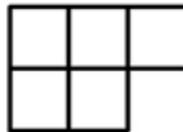
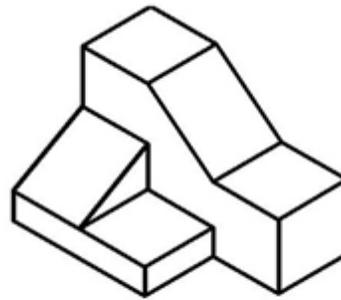


Options :

- a. figure (1)
- b. figure (2)
- c. figure (3)
- d. figure (4)

- Chosen Option :
- Correct Answer: b

Q.30 Identify the correct top view for the given 3D object

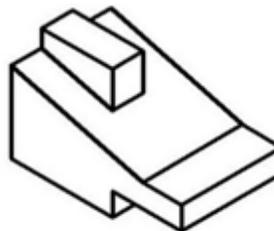


Options :

- a. figure (1)
- b. figure (2)
- c. figure (3)
- d. figure (4)

- Chosen Option :
- Correct Answer: a

Q.31 Identify the correct side view for the given 3D object

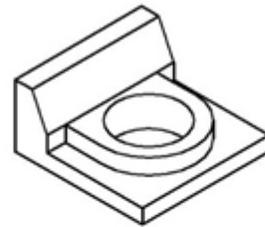


Options :

- a. figure (1)
- b. figure (2)
- c. figure (3)
- d. figure (4)

- Chosen Option :
- Correct Answer: d

Q.32 Identify the correct side view for the given 3D object



Options :

- figure (1)
- figure (2)
- figure (3)
- figure (4)

- Chosen Option :
- Correct Answer: c

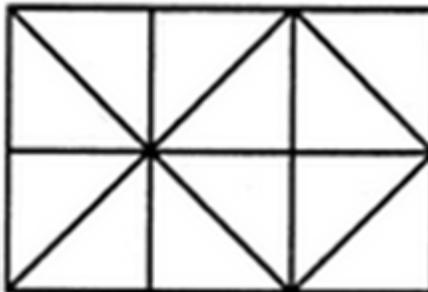
Q.33 The ratio between the length and the breadth of a rectangle along the boundary of the park at the speed of 9 km/hr covered in 10 minutes. If the perimeter of the park is 1000 m, then the area of the park (in sq. m) is:

Options :

- 60000
- 76000
- 86000
- 80000

- Chosen Option :
- Correct Answer: d

Q.34 Count the number of squares in the given figure.



Options :

- 6
- 9
- 8
- 10

- Chosen Option :
- Correct Answer: b

Q.35 Which word does NOT belong with the others?

Options :

- a. Sofa
- b. Table
- c. Carpet
- d. Chair

- Chosen Option : c
- Correct Answer: c

Q.36 Identify the next pair of number in the given sequence.

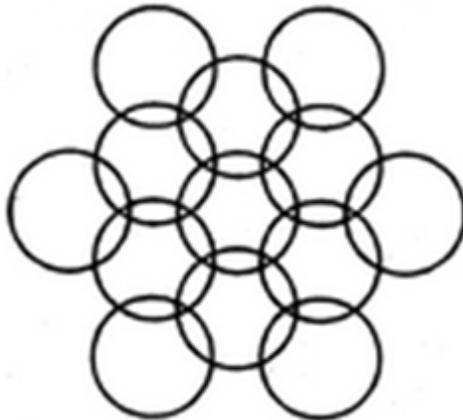
14 14 26 26 38 38 50

Options :

- a. 50 72
- b. 50 62
- c. 62 62
- d. 62 80

- Chosen Option :
- Correct Answer: b

Q.37 How many circles are there in the given figure



Options :

- a. 13
- b. 12
- c. 11
- d. 14

- Chosen Option :
- Correct Answer: a

Q.38 GRIHA Council is related to rating of

Options :

- a. Reforestation
- b. Professional ethics
- c. Ecological footprint
- d. Green building

- Chosen Option : d
- Correct Answer: d

Q.39 The Pritzker Prize winner of 2018 is

Options :

- a. Yvonne Farrell
- b. Arata Isozaki
- c. Balkrishna Doshi
- d. Zaha Hadid

- Chosen Option :
- Correct Answer: c

Q.40 The total greenhouse emissions released into the atmosphere

Options :

- a. Green footprint
- b. Water footprint
- c. Carbon footprint
- d. Ecological footprint

- Chosen Option :
- Correct Answer: c

Q.41 Which of the following architect is referred to as

Options :

- a. Peter Zumthor
- b. Le Corbusier
- c. Toyo Ito
- d. Daniel Libeskind

- Chosen Option :
- Correct Answer: d

Q.42 Sydney Opera house is designed

Options :

- a. Jørn Utzon
- b. Bjarke Ingles
- c. Walter Gropius
- d. Kim Utzon

- Chosen Option :
- Correct Answer: a

Q.43 Random rubble relates to

Options :

- a. Mould work
- b. Wood work
- c. Masonry work
- d. Metal work

- Chosen Option :
- Correct Answer: c

Q.44

In a class of 95 students, 40 play cricket, 50 play football. How many students play neither cricket nor football.

Options :

- a. 80
- b. 40
- c. 30
- d. 15

- Chosen Option : --
- Correct Answer: d

Q.45 In a class of 150 students, 50 students passed in Maths and chemistry and 20 students failed in both the subjects. How many students passed in at least one of the subjects?

Options :

- a. 20
- b. 130
- c. 125
- d. 140

- Chosen Option :
- Correct Answer: d

Q.46 $(p \wedge \sim q) \wedge (\sim p \wedge q)$ is a

Options :

- a. Tautology
- b. Contradiction
- c. Tautology & Contradiction
- d. Contingency

- Chosen Option :
- Correct Answer: b

Q.47 If p and q have truth value 'F' then

$(\sim p \vee q) \leftrightarrow \sim (p \wedge q)$ and $\sim p \leftrightarrow (p \wedge \sim p)$

Options :

- a. F,F
- b. T,T
- c. T,F
- d. F,T

- Chosen Option :
- Correct Answer: b

Q.48 Which of the following statements are compound statements?

Options :

- a. 15 is neither an even number nor a prime number

- b. I would like some coffee or tea
- c. Ram and Rahim are friends
- d. 2 is both an even number and a prime number

- Chosen Option :
- Correct Answer: c

Q.49 In an organization of pollution control board, engineers are experts by a rectangle and environmentalist by a triangle. board as shown in the following figure?



Options :

- a. Environmentalists
- b. Legal Experts
- c. Engineers with legal background
- d. Environmentalists with Engineering background

- Chosen Option :
- Correct Answer: d

Q.50 Stupas are monolithic structures pertaining to which

Options :

- a. Mughal style
- b. Renaissance style
- c. Victorian style
- d. Buddhist style

- Chosen Option : d
- Correct Answer: d