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# Engineer

## Previous Year Paper
## (Instrumentation)
## 23 Dec, 2023

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| | |
|---|---|
| | |
| ne | |
| me | |
| | 23/12/2023 |
| | 2:00 PM - 4:30 PM |
| | Instrumentation Engineer |

anguage

the most appropriate antonym of the underlined word.

e was recovered in the immediate **vicinity** of the attack.

irons

ality

away

ty

Question ID : **630680504738**
Option 1 ID : **6306801972502**
Option 2 ID : **6306801972503**
Option 3 ID : **6306801972501**
Option 4 ID : **6306801972504**
Status : **Answered**
Chosen Option : **3**

most appropriate idiom for the underlined phrase.

am aware that this was your last try, you won't **lose your mind**.

ake ends meet

the sack

se your marbles

in cats and dogs

Question ID : **630680504736**
Option 1 ID : **6306801972493**
Option 2 ID : **6306801972495**
Option 3 ID : **6306801972496**

the most appropriate synonym of the underlined word.

ɔung, but she has an **astute** business acumen.

pt

ɹuse

ɹewd

.ve

Question ID : **630680504739**
Option 1 ID : **6306801972507**
Option 2 ID : **6306801972506**
Option 3 ID : **6306801972508**
Option 4 ID : **6306801972505**
Status : **Answered**
Chosen Option : **3**

e most appropriate word to fill in the blank.

ɘly _____ false information when it comes to my business.

Question ID : **630680504725**
Option 1 ID : **6306801972453**
Option 2 ID : **6306801972456**
Option 3 ID : **6306801972454**
Option 4 ID : **6306801972455**
Status : **Answered**
Chosen Option : **2**

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ıw consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences
t paragraph.

ıdest underwater noise comes from naval sonar devices.

:an be as loud as 235 decibels and travel hundreds of miles under water, interfering with whales' ability to use

olocation, works by sending pulses of sound down into the depths of the ocean to bounce off an object and return an
vhich indicates a location for object.

hown that sonar can cause mass stranding of whales on beaches and alter the feeding behaviour of endangered blue

ŁQS

ıSR

'RS

ıPR

Question ID : **630680504728**
Option 1 ID : **6306801972467**
Option 2 ID : **6306801972466**
Option 3 ID : **6306801972465**
Option 4 ID : **6306801972468**
Status : **Answered**
Chosen Option : **2**

ıe word that can substitute the given group of words.

f writing that says bad, false, and harmful things about a person

bel

:e

mbit

:rilege

Question ID : **630680504730**
Option 1 ID : **6306801972476**
Option 2 ID : **6306801972475**
Option 3 ID : **6306801972473**
Option 4 ID : **6306801972474**
Status : **Answered**
Chosen Option : **4**

ıe most appropriate idiom for the underlined phrase.

na fired his servant because he **was a thief.**

find your feet

go cold turkey

have sticky fingers

let the guards down

Question ID : **630680504737**
Option 1 ID : **6306801972500**
Option 2 ID : **6306801972499**
Option 3 ID : **6306801972497**
Option 4 ID : **6306801972498**
Status : **Not Answered**
Chosen Option : **--**

ıw consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences
t paragraph.

ia's better preparedness to deal with the green-house gas which is responsible for global warming.
ck refers to the amount of carbon stored in forests in the form of biomass, soil, deadwood and litter.
green cover and carbon stock both indicates a healthy trend.
ın stock, higher would be the forest's capacity to absorb and sequester carbon dioxide ($CO_2$), the main greenhouse
here, through photosynthesis.

QR

SRP

QS

QP

Question ID : **630680504727**
Option 1 ID : **6306801972462**
Option 2 ID : **6306801972461**
Option 3 ID : **6306801972463**
Option 4 ID : **6306801972464**
Status : **Answered**
Chosen Option : **2**

ıe most appropriate word to fill in the blank.

_____ your unnecessary demands all the time.

from

with

with

ɔy

Question ID : **630680504726**
Option 1 ID : **6306801972459**
Option 2 ID : **6306801972457**
Option 3 ID : **6306801972458**
Option 4 ID : **6306801972460**
Status : **Answered**
Chosen Option : **1**

the word that can substitute the given group of words.

f dogs.

agophobia

ımophobia

'nophobia

;oraphobia

Question ID : **630680504729**
Option 1 ID : **6306801972472**
Option 2 ID : **6306801972469**
Option 3 ID : **6306801972471**
Option 4 ID : **6306801972470**
Status : **Answered**
Chosen Option : **3**

ısion:

ssage carefully and select the correct answer for the given blanks out of the ives.

s stayed in Britain (1) _____ almost four centuries. In some parts of the / were met with rebellion and resistance, but in more peaceful areas cities __, villas constructed and a network of roads developed that can still be (3) And in AD 122, the emperor Hadrian, visiting Britain, ordered the building of wall.

**n No : 11**

**nost appropriate option for blank _____ (3)**

ted

ced

ocked

obed

Question ID : **630680509616**
Option 1 ID : **6306801991682**
Option 2 ID : **6306801991683**
Option 3 ID : **6306801991684**
Option 4 ID : **6306801991681**
Status : **Answered**
Chosen Option : **2**

ısion:

ssage carefully and select the correct answer for the given blanks out of the ives.

s stayed in Britain (1) _____ almost four centuries. In some parts of the / were met with rebellion and resistance, but in more peaceful areas cities __, villas constructed and a network of roads developed that can still be (3) And in AD 122, the emperor Hadrian, visiting Britain, ordered the building of wall.

**n No : 12**

**nost appropriate option for blank _____ (2)**

ınded

ncated

ented

ted

Question ID : **630680509615**
Option 1 ID : **6306801991677**
Option 2 ID : **6306801991680**
Option 3 ID : **6306801991678**
Option 4 ID : **6306801991679**
Status : **Answered**
Chosen Option : **1**

ısion:

ssage carefully and select the correct answer for the given blanks out of the ives.

s stayed in Britain (1) _____ almost four centuries. In some parts of the / were met with rebellion and resistance, but in more peaceful areas cities __, villas constructed and a network of roads developed that can still be (3) And in AD 122, the emperor Hadrian, visiting Britain, ordered the building of wall.

**n No : 13**

**nost appropriate option for blank _____ (1)**

ce

m

Question ID : **630680509614**
Option 1 ID : **6306801991676**
Option 2 ID : **6306801991673**
Option 3 ID : **6306801991675**
Option 4 ID : **6306801991674**
Status : **Answered**
Chosen Option : **3**

ısion:

lowing passage and answer the questions given below.

ıge problems that are the root cause of India's population growth.
n as mortality and fertility rates, child marriage, boy's importance, ignorance planning, rational decisions, polygamy marriage, and the age and sex factors nt population influence population growth.
umans have made notable and significant advancements in the field of science, and medicine. With the invention of treatments, vaccines, and the of various diseases, people today have a higher life expectancy than their

tions have also led to a decrease in mortality rates, boosted fertility rates, lved reproductive and infertility problems. Hence the massive improvements and slowing mortality rates have been the main reason behind on problems.

**n No : 14**

the structure of the passage?

escriptive

mpare and contrast

oblem and solution

ocess writing

Question ID : **630680504735**
Option 1 ID : **6306801972491**

**ısion:**

lowing passage and answer the questions given below.

ıge problems that are the root cause of India's population growth.
ı as mortality and fertility rates, child marriage, boy's importance, ignorance
planning, rational decisions, polygamy marriage, and the age and sex factors
ıt population influence population growth.
umans have made notable and significant advancements in the field of
science, and medicine. With the invention of treatments, vaccines, and the
of various diseases, people today have a higher life expectancy than their

tions have also led to a decrease in mortality rates, boosted fertility rates,
lved reproductive and infertility problems. Hence the massive improvements
and slowing mortality rates have been the main reason behind
on problems.

**n No : 15**

the most appropriate tone of the passage?

gmatic

elancholy

ıncerning

phemistic

Question ID : **630680504732**
Option 1 ID : **6306801972479**
Option 2 ID : **6306801972477**
Option 3 ID : **6306801972480**
Option 4 ID : **6306801972478**
Status : **Answered**
Chosen Option : **2**

**ısion:**

lowing passage and answer the questions given below.

ıge problems that are the root cause of India's population growth.
ı as mortality and fertility rates, child marriage, boy's importance, ignorance
planning, rational decisions, polygamy marriage, and the age and sex factors
ıt population influence population growth.
umans have made notable and significant advancements in the field of
science, and medicine. With the invention of treatments, vaccines, and the
of various diseases, people today have a higher life expectancy than their

tions have also led to a decrease in mortality rates, boosted fertility rates,
lved reproductive and infertility problems. Hence the massive improvements
and slowing mortality rates have been the main reason behind
on problems.

**n No : 16**

g to the given passage, which of the following statements is correct?

today have a higher life expectancy than their forefathers.

narriage affects population.

ly I

ither I nor II

ly II

oth I and II

Question ID : **630680504733**
Option 1 ID : **6306801972481**
Option 2 ID : **6306801972484**
Option 3 ID : **6306801972482**
Option 4 ID : **6306801972483**
Status : **Answered**
Chosen Option : **4**

ısion:

lowing passage and answer the questions given below.

ıge problems that are the root cause of India's population growth.
ı as mortality and fertility rates, child marriage, boy's importance, ignorance
planning, rational decisions, polygamy marriage, and the age and sex factors
ıt population influence population growth.
umans have made notable and significant advancements in the field of
science, and medicine. With the invention of treatments, vaccines, and the
of various diseases, people today have a higher life expectancy than their

tions have also led to a decrease in mortality rates, boosted fertility rates,
lved reproductive and infertility problems. Hence the massive improvements
and slowing mortality rates have been the main reason behind
on problems.

**n No : 17**

rd in the passage means 'marriage to more than one spouse at a time'?

lygamy

pectancy

ıdication

ortality

Question ID : **630680504734**
Option 1 ID : **6306801972486**
Option 2 ID : **6306801972487**
Option 3 ID : **6306801972488**
Option 4 ID : **6306801972485**
Status : **Answered**
Chosen Option : **1**

ive Aptitude

les are 2 cm and 7 cm. Length of direct common tangent is 12 cm. What is the distance between their centres?

cm

cm

cm

cm

Question ID : **630680505060**
Option 1 ID : **6306801973771**
Option 2 ID : **6306801973772**
Option 3 ID : **6306801973770**
Option 4 ID : **6306801973769**
Status : **Answered**
Chosen Option : **3**

are thrown simultaneously, then what is the probability of getting a sum of 3?

Question ID : **630680505052**
Option 1 ID : **6306801973737**
Option 2 ID : **6306801973738**
Option 3 ID : **6306801973739**
Option 4 ID : **6306801973740**
Status : **Answered**
Chosen Option : **2**

$= 6$, then what is the value of $K^4 + \frac{1}{K^4}$?

36

12

42

18

Question ID : **630680505051**
Option 1 ID : **6306801973734**
Option 2 ID : **6306801973736**
Option 3 ID : **6306801973733**
Option 4 ID : **6306801973735**
Status : **Answered**
Chosen Option : **3**

es as efficient as Punit. Vishal can complete a work in 63 days less than Punit. If both of them work together, then in
vill the same work be completed?

days

days

days

5 days

Question ID : **630680505046**
Option 1 ID : **6306801973716**
Option 2 ID : **6306801973714**
Option 3 ID : **6306801973715**
Option 4 ID : **6306801973713**

3S, then what is the value of (R + S)/R?

Question ID : **630680505044**
Option 1 ID : **6306801973706**
Option 2 ID : **6306801973707**
Option 3 ID : **6306801973708**
Option 4 ID : **6306801973705**
Status : **Answered**
Chosen Option : **2**

the value of $4 \times 5 - 44 \div 11 \times 3 + 28$?

Question ID : **630680505037**
Option 1 ID : **6306801973677**
Option 2 ID : **6306801973678**
Option 3 ID : **6306801973680**
Option 4 ID : **6306801973679**
Status : **Answered**
Chosen Option : **1**

times more than M, then M is what percentage less than L?

percent

percent

percent

percent

Question ID : **630680505039**
Option 1 ID : **6306801973688**
Option 2 ID : **6306801973685**
Option 3 ID : **6306801973687**
Option 4 ID : **6306801973686**
Status : **Answered**

numbers is 23. If every number is doubled, then what will be the new average of the numbers?

Question ID : **630680505029**
Option 1 ID : **6306801973645**
Option 2 ID : **6306801973648**
Option 3 ID : **6306801973647**
Option 4 ID : **6306801973646**
Status : **Answered**
Chosen Option : **4**

6Q and 9Q = 5R, then what is the value of P : Q : R?

: 65 : 88

: 75 : 78

: 55 : 99

: 45 : 38

Question ID : **630680505045**
Option 1 ID : **6306801973710**
Option 2 ID : **6306801973711**
Option 3 ID : **6306801973709**
Option 4 ID : **6306801973712**
Status : **Answered**
Chosen Option : **3**

'cumference of a circle is 352 cm, then what is its radius?

cm

cm

cm

cm

Question ID : **630680505056**
Option 1 ID : **6306801973754**
Option 2 ID : **6306801973755**
Option 3 ID : **6306801973753**
Option 4 ID : **6306801973756**
Status : **Answered**
Chosen Option : **4**

e price of his table 60 percent above the cost price. He gives some discount on it and earns profit of 40 percent.
ount percentage?

percent

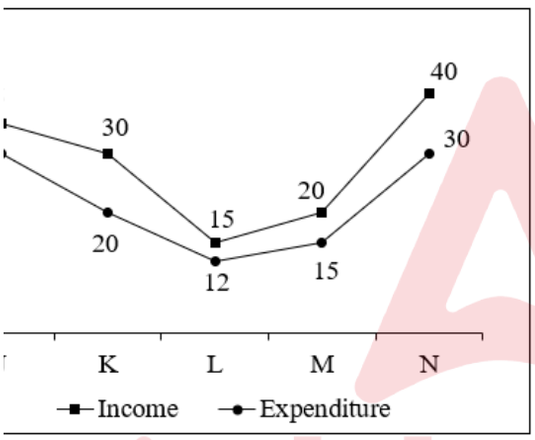
.5 percent

5 percent

33 percent

Question ID : **630680505043**
Option 1 ID : **6306801973703**
Option 2 ID : **6306801973704**
Option 3 ID : **6306801973702**
Option 4 ID : **6306801973701**
Status : **Answered**
Chosen Option : **2**

hart given below shows the income and expenditure of five companies.




ncome – Expenditure

e ratio of average saving of J and K to the average income of M and N?

1

4

5

2

Question ID : **630680505034**
Option 1 ID : **6306801973665**
Option 2 ID : **6306801973666**
Option 3 ID : **6306801973667**
Option 4 ID : **6306801973668**
Status : **Answered**
Chosen Option : **2**

a cube is increased by 6 percent, then what will be the percentage change in the volume of the cube?

.50 percent

.10 percent

56 percent

42 percent

Question ID : **630680505057**
Option 1 ID : **6306801973758**
Option 2 ID : **6306801973757**
Option 3 ID : **6306801973759**
Option 4 ID : **6306801973760**
Status : **Answered**
Chosen Option : **2**

$= \frac{5}{13}$, then what is the value of $\cos\theta + 2\tan\theta$?

7

Question ID : **630680505061**
Option 1 ID : **6306801973773**
Option 2 ID : **6306801973776**
Option 3 ID : **6306801973774**
Option 4 ID : **6306801973775**
Status : **Not Answered**
Chosen Option : **--**

oves at a speed of 10 m/s for 32 hours. What is the distance travelled by the scooter?

52 km

14 km

3 km

46 km

Question ID : **630680505048**
Option 1 ID : **6306801973721**
Option 2 ID : **6306801973723**
Option 3 ID : **6306801973724**
Option 4 ID : **6306801973722**

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re has an outer radius of 10 cm and inner radius of 4 cm. What is the volume of this hollow sphere?

50π $cm^3$

5π $cm^3$

5π $cm^3$

48π $cm^3$

Question ID : **630680505058**
Option 1 ID : **6306801973764**
Option 2 ID : **6306801973762**
Option 3 ID : **6306801973763**
Option 4 ID : **6306801973761**
Status : **Answered**
Chosen Option : **4**

at more than K and K is 20 percent less than L. If J is 930, then what is the value of L?

)

0

)

)

Question ID : **630680505040**
Option 1 ID : **6306801973691**
Option 2 ID : **6306801973689**
Option 3 ID : **6306801973692**
Option 4 ID : **6306801973690**
Status : **Answered**
Chosen Option : **2**

0 becomes Rs. 2200 at some rate of simple interest in 2 years. In how many years will the sum of Rs. 1600 amounts same rate of simple interest?

ears

ears

ears

ears

Question ID : **630680505031**
Option 1 ID : **6306801973653**
Option 2 ID : **6306801973654**
Option 3 ID : **6306801973655**
Option 4 ID : **6306801973656**
Status : **Answered**
Chosen Option : **4**

of a chair is Rs. 1600. If loss percentage is 36 percent, then what is the cost price of chair?

. 2000

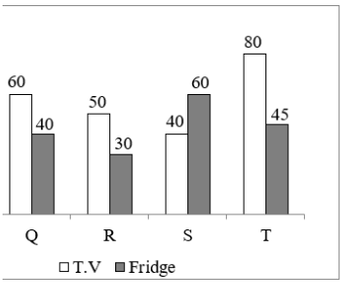
. 3400

. 2700

. 2500

Question ID : **630680505041**
Option 1 ID : **6306801973693**
Option 2 ID : **6306801973694**
Option 3 ID : **6306801973696**
Option 4 ID : **6306801973695**
Status : **Answered**
Chosen Option : **4**

iven below shows the production of television and fridge by different companies.




llowing statement is correct?

roduction of television and fridge by P is 140 percent of the average production television and fridge by S.

otal production of television by Q and R to the total production of fridge by S and T are 22 : 21.

ly I

ither I nor II

th I and II

ıly II

Question ID : **630680505035**
Option 1 ID : **6306801973669**
Option 2 ID : **6306801973672**
Option 3 ID : **6306801973671**
Option 4 ID : **6306801973670**
Status : **Answered**
Chosen Option : **4**

)00 for 2 years at compound interest (compounded annually) in a company which paid him interest of Rs. 6681.6.
annual rate of interest at which R invested his money?

percent

percent

percent

percent

Question ID : **630680505033**
Option 1 ID : **6306801973662**
Option 2 ID : **6306801973663**
Option 3 ID : **6306801973664**
Option 4 ID : **6306801973661**
Status : **Not Answered**
Chosen Option : **--**

laptop for Rs. 3400 and spends Rs. 600 on its repairs. If he sells the laptop for Rs. 4500, then what is his profit

28 percent

.5 percent

5 percent

66 percent

Question ID : **630680505042**
Option 1 ID : **6306801973698**
Option 2 ID : **6306801973700**
Option 3 ID : **6306801973697**
Option 4 ID : **6306801973699**
Status : **Answered**
Chosen Option : **2**

the value of $1.75 \times 1.75 + 0.05 \times 0.05 - 0.1 \times 1.75$?

:5

39

:6

4

Question ID : **630680505036**
Option 1 ID : **6306801973673**
Option 2 ID : **6306801973676**
Option 3 ID : **6306801973674**
Option 4 ID : **6306801973675**
Status : **Answered**
Chosen Option : **2**

by a chord AB on the circumference is 45 degree. If radius of this circle is 8 cm, then what is the length of AB?

$\sqrt{2}$ cm

$\sqrt{2}$ cm

$\sqrt{2}$ cm

$\sqrt{2}$ cm

Question ID : **630680505059**
Option 1 ID : **6306801973768**
Option 2 ID : **6306801973766**
Option 3 ID : **6306801973765**
Option 4 ID : **6306801973767**
Status : **Answered**
Chosen Option : **3**

, speaks truth is 4/5 and probability that B speaks truth is 2/5. What will be the probability that both are lying while
iews?

Question ID : **630680505053**
Option 1 ID : **6306801973743**
Option 2 ID : **6306801973744**
Option 3 ID : **6306801973742**
Option 4 ID : **6306801973741**
Status : **Answered**
Chosen Option : **3**

5 results was calculated as 92 but later it was found that while calculating, 182 was taken as 82 by mistake. What
:t average?

55

65

25

.33

Question ID : **630680505030**
Option 1 ID : **6306801973649**
Option 2 ID : **6306801973650**
Option 3 ID : **6306801973652**
Option 4 ID : **6306801973651**

lue of P the two equations $2x + 5y = 7$ and $Px + 10y = 15$ will have no solution?

= 4

= –4

= 2

= 8

Question ID : **630680505050**
Option 1 ID : **6306801973729**
Option 2 ID : **6306801973731**
Option 3 ID : **6306801973730**
Option 4 ID : **6306801973732**
Status : **Answered**
Chosen Option : **1**

at the rate of 33 percent per annum on compound interest (compounded in every four months). What will be the
st of 8 months?

. 2340

. 2360

. 2321

. 2550

Question ID : **630680505032**
Option 1 ID : **6306801973659**
Option 2 ID : **6306801973657**
Option 3 ID : **6306801973660**
Option 4 ID : **6306801973658**
Status : **Not Answered**
Chosen Option : **--**

re the roots of the cubic equation $x^3 + 3x^2 - 2x + 5 = 0$, then what is the value of $\frac{1}{a} + \frac{1}{b} + \frac{1}{c}$?

Question ID : **630680505055**
Option 1 ID : **6306801973751**
Option 2 ID : **6306801973752**
Option 3 ID : **6306801973750**
Option 4 ID : **6306801973749**
Status : **Answered**
Chosen Option : **4**

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ween X and Z is 1782 km. An express train leaves X at 9:50 a.m. and travels at a speed of 198 km/hr. The train stops
nour 15 minutes. At what time the train will reach at Z?

5 pm

20 pm

:5 pm

)5 pm

Question ID : **630680505049**
Option 1 ID : **6306801973727**
Option 2 ID : **6306801973728**
Option 3 ID : **6306801973725**
Option 4 ID : **6306801973726**
Status : **Answered**
Chosen Option : **4**

plete a work in 80 days and Y alone can do the same work in half time of the time taken by A. Working together
same work they can complete in a day?

Question ID : **630680505047**
Option 1 ID : **6306801973719**
Option 2 ID : **6306801973718**
Option 3 ID : **6306801973720**
Option 4 ID : **6306801973717**
Status : **Answered**
Chosen Option : **2**

of the three consecutive odd numbers is 2145. What is the average of the three numbers?

Question ID : **630680505038**
Option 1 ID : **6306801973682**
Option 2 ID : **6306801973683**
Option 3 ID : **6306801973684**
Option 4 ID : **6306801973681**
Status : **Answered**

) degree, then what is the value of $\frac{\sin\theta+\cos 2\theta}{\tan 2\theta+\text{cosec}2\theta}$ ?

Question ID : **630680505062**
Option 1 ID : **6306801973779**
Option 2 ID : **6306801973777**
Option 3 ID : **6306801973780**
Option 4 ID : **6306801973778**
Status : **Answered**
Chosen Option : **2**

e the roots of the quadratic equation $x^2 + 5x + 5 = 0$, then what is the value of $\alpha^2 + \beta^2$?

Question ID : **630680505054**
Option 1 ID : **6306801973745**
Option 2 ID : **6306801973746**
Option 3 ID : **6306801973747**
Option 4 ID : **6306801973748**
Status : **Answered**
Chosen Option : **3**

ual Potential Test

lowing question, select the missing number from the given series.

06, 65, 108, ?

Question ID : **630680504857**
Option 1 ID : **6306801972958**

ng given below made up of symbols and numbers. How many numbers are immediately followed by a symbol?

& * % % 3 7 3 3 7 & & &

Question ID : **630680504842**
Option 1 ID : **6306801972899**
Option 2 ID : **6306801972900**
Option 3 ID : **6306801972897**
Option 4 ID : **6306801972898**
Status : **Answered**
Chosen Option : **3**

uestion below are given some statements followed by some conclusions based on those statements. Taking the
to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide
n conclusion logically follows the given statements.

ıter.

ıre water.

yellow.

non.

s not water.

l conclusion follows

th conclusions II and III follows

ither conclusion follows

ly conclusion II follows

Question ID : **630680504835**
Option 1 ID : **6306801972869**
Option 2 ID : **6306801972870**
Option 3 ID : **6306801972872**
Option 4 ID : **6306801972871**
Status : **Answered**
Chosen Option : **1**

· three digit numbers given below and the answer the questions based on it.

)6 314 445 (Right)

ers are arranged in descending order from left to right. What is the sum of the left most and right most numbers?

0

l

9

l

Question ID : **630680504838**
Option 1 ID : **6306801972882**
Option 2 ID : **6306801972883**
Option 3 ID : **6306801972884**
Option 4 ID : **6306801972881**
Status : **Answered**
Chosen Option : **1**

B 30 C 6 = 125 and 65 A 50 B 15 C 5 = 215, then 4 A 7 B 8 C 4 = ?

Question ID : **630680504855**
Option 1 ID : **6306801972951**
Option 2 ID : **6306801972952**
Option 3 ID : **6306801972949**
Option 4 ID : **6306801972950**
Status : **Not Answered**
Chosen Option : **--**

language, 'THOSE' is written as '268', 'RATES' is written as '252'. What is the code for 'YEAR' in that code

2

4

3

6

Question ID : **630680504832**
Option 1 ID : **6306801972859**
Option 2 ID : **6306801972860**
Option 3 ID : **6306801972857**
Option 4 ID : **6306801972858**
Status : **Answered**
Chosen Option : **1**

owing question, select the related letter pair from the given alternatives.

?

Γ : JS

: GL

' : QP

ℵ : ZM

Question ID : **630680504846**
Option 1 ID : **6306801972914**
Option 2 ID : **6306801972916**
Option 3 ID : **6306801972915**
Option 4 ID : **6306801972913**
Status : **Not Answered**
Chosen Option : **--**

in which the numbers shares the same relationship in set as that shared by the numbers in the given set. (NOTE:
d be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 –
such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then
ematical operations on 1 and 3 is not allowed)

), 20, 29)

, 49, 77)

3, 51, 59)

', 40, 56)

Question ID : **630680504859**
Option 1 ID : **6306801972965**
Option 2 ID : **6306801972966**
Option 3 ID : **6306801972967**
Option 4 ID : **6306801972968**
Status : **Answered**
Chosen Option : **3**

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ve three letter words given below and the answer the questions based on it.

)S AND POT KIL (Right)

ls are arranged in alphabetical order from left to right. Which word will come at fourth place form left?

)T

)I

)S

L

Question ID : **630680504839**
Option 1 ID : **6306801972885**
Option 2 ID : **6306801972886**
Option 3 ID : **6306801972888**
Option 4 ID : **6306801972887**
Status : **Answered**
Chosen Option : **1**

ring given below made up of letters. How many vowels are immediately followed by another vowel?

L X P I A X J Q D S Y P J

Question ID : **630680504841**
Option 1 ID : **6306801972893**
Option 2 ID : **6306801972896**
Option 3 ID : **6306801972894**
Option 4 ID : **6306801972895**
Status : **Answered**
Chosen Option : **2**

)wing question, select the odd letter/letters from the given alternatives.

'J

T

]Y

/Y

Question ID : **630680504847**
Option 1 ID : **6306801972920**
Option 2 ID : **6306801972917**
Option 3 ID : **6306801972919**
Option 4 ID : **6306801972918**
Status : **Answered**
Chosen Option : **4**

in which the numbers shares the same relationship in set as that shared by the numbers in the given set. (NOTE: d be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 – such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then ematical operations on 1 and 3 is not allowed)

56, 63)

42, 54)

30, 35)

15, 24)

Question ID : **630680504858**
Option 1 ID : **6306801972961**
Option 2 ID : **6306801972963**
Option 3 ID : **6306801972964**
Option 4 ID : **6306801972962**
Status : **Answered**
Chosen Option : **2**

B, C, D, E, F, G and H are sitting around a circular table facing opposite to the centre (not necessarily in the same id to the left of H. A is third to the left of B. D is to immediate right of H. F is fourth to the left of D. C is the bour of H and B. G is second to the right of H. Who is sitting second to the right of G?

Question ID : **630680504828**
Option 1 ID : **6306801972841**
Option 2 ID : **6306801972843**
Option 3 ID : **6306801972842**
Option 4 ID : **6306801972844**
Status : **Not Answered**
Chosen Option : **--**

owing question, select the related letters from the given alternatives.

:: AE : ?

J

Question ID : **630680504845**
Option 1 ID : **6306801972911**

q 9 = 27 and 14 p 2 q 3 = 21, then 15 p 5 q 4 = ?

Question ID : **630680504853**
Option 1 ID : **6306801972941**
Option 2 ID : **6306801972942**
Option 3 ID : **6306801972944**
Option 4 ID : **6306801972943**
Status : **Answered**
Chosen Option : **2**

nely - P, Q, R, S, T, U, V and W live on separate floors of an eight-floor building in Gokuldham apartment. Ground
l 1; first floor is numbered 2 and so on until the topmost floor which is numbered 8.
live between P and Q. V lives immediately above S. T lives immediately above R. T lives above W. U lives on an
)or. Only one person lives between T and W. P lives on the floor numbered five. Q lives above P. Then find, who
:.

Question ID : **630680504831**
Option 1 ID : **6306801972854**
Option 2 ID : **6306801972853**
Option 3 ID : **6306801972856**
Option 4 ID : **6306801972855**
Status : **Not Answered**
Chosen Option : **--**

e following problems has a question and two statements (I) and (II).
he value of a and b?

= 36

n be answered by using one of the statement alone but cannot be answered by using the other statement alone.

n can be answered by using both the statements together but not by either statement alone.

tion can be answered by using either of the statement (I) or (II) alone.

stion cannot be answered even by using both the statements together.

Question ID : **630680504849**
Option 1 ID : **6306801972925**
Option 2 ID : **6306801972927**
Option 3 ID : **6306801972926**
Option 4 ID : **6306801972928**
Status : **Answered**
Chosen Option : **2**

ven below, relationships between different elements are shown in the statements. These statements are followed by
Give answer:

'4 ≥ T5 > T6 = T7

neither conclusion I nor conclusion II is true
nly conclusion I is true
nly conclusion II is true
oth conclusions I and II are true

Question ID : **630680504843**
Option 1 ID : **6306801972903**
Option 2 ID : **6306801972901**
Option 3 ID : **6306801972902**
Option 4 ID : **6306801972904**
Status : **Answered**
Chosen Option : **1**

ıg pair (Fifth number : Sixth number) which is related in the same way as the first number is related to the second number is related to fourth number. (NOTE: Operations should be performed on the whole numbers, without ıe numbers into its constituent digits. E.g.13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 l. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

ı :: ?

63

24

8

: 98

Question ID : **630680504860**
Option 1 ID : **6306801972970**
Option 2 ID : **6306801972972**
Option 3 ID : **6306801972969**
Option 4 ID : **6306801972971**
Status : **Not Answered**
Chosen Option : **--**

; '×', '×' means '–', '–' means '÷' and '÷' means '–', then 6 + 8 × 10 ÷ 40 – 2 = ?

Question ID : **630680504854**
Option 1 ID : **6306801972946**
Option 2 ID : **6306801972945**
Option 3 ID : **6306801972947**
Option 4 ID : **6306801972948**
Status : **Answered**
Chosen Option : **1**

is the brother of Q', 'P × Q' means 'P is the mother of Q', 'P ÷ Q' means 'P is the father of Q' and 'P – Q' means 'P . If M – K × F ÷ D ÷ N × R, then how is N related to K?

ughter

n's daughter

ughter's daughter

n's son

Question ID : **630680504834**
Option 1 ID : **6306801972867**
Option 2 ID : **6306801972866**
Option 3 ID : **6306801972865**
Option 4 ID : **6306801972868**
Status : **Answered**
Chosen Option : **2**

ven below, relationships between different elements are shown in the statements. These statements are followed by
Give answer:

4 ≥ S5 > T6 = S7

ɔnly conclusion I is true

ɔnly conclusion II is true

ɔoth conclusions I and II are true

ıeither conclusion I nor conclusion II is true

Question ID : **630680504844**
Option 1 ID : **6306801972905**
Option 2 ID : **6306801972906**
Option 3 ID : **6306801972908**
Option 4 ID : **6306801972907**
Status : **Answered**
Chosen Option : **4**

n with one term missing. Select the correct alternative from the given ones that will complete the series.

ᵢ, ?

[

M

X

Q

Question ID : **630680504850**
Option 1 ID : **6306801972932**
Option 2 ID : **6306801972930**
Option 3 ID : **6306801972931**
Option 4 ID : **6306801972929**
Status : **Answered**
Chosen Option : **3**

ıg given below made up of numbers from 0 to 9. How many even digits are immediately followed by odd digit?

7 1 5 7 6 3 5 8 3 5 8

Question ID : **630680504840**
Option 1 ID : **6306801972889**

lowed by a set of conclusions in the given question. Identify which conclusion follows logically from the following

:act greater work prospects, the government is encouraging today's youth to learn more than one skill.

ent is necessary to attract better job opportunities.
lack focus.

th I and II follow
ither I nor II follows
ly I follow
ly II follows

Question ID : **630680504851**
Option 1 ID : **6306801972935**
Option 2 ID : **6306801972936**
Option 3 ID : **6306801972933**
Option 4 ID : **6306801972934**
Status : **Not Answered**
Chosen Option : **--**

tion, a statement is followed by two courses of action. Based on the information given in the statement, you have to
g in the statement to be true. Identify which course(s) of action logically follows.

ol bus carrying students home from school was hijacked in broad daylight.

:

ıe students must be immediately informed.

erage, all media workers must be summoned.

ly I follow
th I and II follow
ither I nor II follows
ly II follows

Question ID : **630680504852**
Option 1 ID : **6306801972937**
Option 2 ID : **6306801972939**
Option 3 ID : **6306801972940**
Option 4 ID : **6306801972938**
Status : **Not Answered**
Chosen Option : **--**

, M and N takes lecture on one day of a week starting from Monday to Friday. No two teacher takes lecture on same
achers take lecture between J and K. M takes lecture after L and before N. K does not take lecture on Monday. Who
Vednesday?

Question ID : **630680504829**
Option 1 ID : **6306801972845**
Option 2 ID : **6306801972848**
Option 3 ID : **6306801972847**
Option 4 ID : **6306801972846**
Status : **Not Answered**
Chosen Option : **--**

B, C, D, E, F, G and H are sitting around a circular table facing opposite to the centre (not necessarily in the same
ıd to the left of H. A is third to the left of B. D is to immediate right of H. F is fourth to the left of D. C is the
bour of H and B. G is second to the right of H. Who is sitting on the immediate right of B?

Question ID : **630680504827**
Option 1 ID : **6306801972840**
Option 2 ID : **6306801972839**
Option 3 ID : **6306801972837**
Option 4 ID : **6306801972838**
Status : **Not Answered**
Chosen Option : **--**

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uestion below are given some statements followed by some conclusions based on those statements. Taking the
to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide
n conclusion logically follows the given statements.

ero.

ter.

heroin.

e hero.

are writer.

th conclusions I and III follows

ly conclusion I follows

ly conclusion II follows

th conclusions II and III follows

Question ID : **630680504836**
Option 1 ID : **6306801972874**
Option 2 ID : **6306801972875**
Option 3 ID : **6306801972873**
Option 4 ID : **6306801972876**
Status : **Answered**
Chosen Option : **2**

lowing question, select the missing number from the given series.

, 120, ?

)

)

)

0

Question ID : **630680504856**
Option 1 ID : **6306801972955**
Option 2 ID : **6306801972953**
Option 3 ID : **6306801972956**
Option 4 ID : **6306801972954**
Status : **Answered**
Chosen Option : **4**

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teenth from the right end in a row of 40 boys. What is his position from the left end?

Question ID : **630680504830**
Option 1 ID : **6306801972851**
Option 2 ID : **6306801972852**
Option 3 ID : **6306801972849**
Option 4 ID : **6306801972850**
Status : **Answered**
Chosen Option : **1**

owing question, select the odd letter/letters from the given alternatives.

YUP
FBW
PLG
NHC

Question ID : **630680504848**
Option 1 ID : **6306801972923**
Option 2 ID : **6306801972924**
Option 3 ID : **6306801972921**
Option 4 ID : **6306801972922**
Status : **Answered**
Chosen Option : **4**

le language, 'EMPTY' is written as 'CXTQI'. What is the code for 'FOODS' in that code language?

HTTJ
HSSJ
HSSK
HRRJ

Question ID : **630680504833**
Option 1 ID : **6306801972862**
Option 2 ID : **6306801972863**
Option 3 ID : **6306801972864**
Option 4 ID : **6306801972861**
Status : **Not Answered**
Chosen Option : **--**

km towards North. He turns right and walks 42 km. He turns right and walks 52 km. How far is he now from the

km
km
km
km

Question ID : **630680504837**
Option 1 ID : **6306801972877**
Option 2 ID : **6306801972879**
Option 3 ID : **6306801972880**
Option 4 ID : **6306801972878**
Status : **Answered**
Chosen Option : **4**

nowledge

ressure transmitter of a flow meter using a venture tube reads $1.6*10^5$Pa for a flow rate of $0.4m^3/s$. The approximate for a differential pressure $0.4*10^5$Pa is:

$m^3/s$
$m^3/s$
$n^3/s$
$m^3/s$

Question ID : **630680505248**
Option 1 ID : **6306801974521**
Option 2 ID : **6306801974522**
Option 3 ID : **6306801974523**
Option 4 ID : **6306801974524**
Status : **Answered**
Chosen Option : **1**

he purpose of the snubber capacitor in a Flyback Converter?

itching frequency control
ltage regulation
pple reduction
ergy storage

Question ID : **630680505237**
Option 1 ID : **6306801974480**
Option 2 ID : **6306801974479**
Option 3 ID : **6306801974478**
Option 4 ID : **6306801974477**

:he purpose of the TTL (Time-to-Live) field in the IP header?

indicate the version of IP

prevent routing loops

define the length of the packet

specify the type of service

Question ID : **630680505233**
Option 1 ID : **6306801974461**
Option 2 ID : **6306801974464**
Option 3 ID : **6306801974463**
Option 4 ID : **6306801974462**
Status : **Answered**
Chosen Option : **3**

nication protocol is commonly used in SCADA systems for data exchange between components?

TP

ITP

odbus

P

Question ID : **630680505208**
Option 1 ID : **6306801974361**
Option 2 ID : **6306801974362**
Option 3 ID : **6306801974363**
Option 4 ID : **6306801974364**
Status : **Answered**
Chosen Option : **3**

tting, an open-loop control system is used for the operation of a conveyor belt to transport materials. What would be e in maintaining the speed of the conveyor belt using this type of control system?

edicting the time to reach the desired speed

djusting the speed in response to load variations

suring consistent power supply to the motor

ecision in setting the initial speed

Question ID : **630680505251**
Option 1 ID : **6306801974535**
Option 2 ID : **6306801974534**
Option 3 ID : **6306801974536**
Option 4 ID : **6306801974533**
Status : **Answered**
Chosen Option : **2**

the purpose of a redline on a tachometer?

nimum speed limit

aximum allowable speed

al cruising speed

commended speed range

Question ID : **630680505256**
Option 1 ID : **6306801974554**
Option 2 ID : **6306801974553**
Option 3 ID : **6306801974555**
Option 4 ID : **6306801974556**
Status : **Answered**
Chosen Option : **2**

he purpose of the Modbus CRC (Cyclic Redundancy Check)?

ensure data integrity in Modbus messages

fy the destination, address in Modbus communication

encrypt Modbus messages

compress Modbus messages

Question ID : **630680505209**
Option 1 ID : **6306801974366**
Option 2 ID : **6306801974368**
Option 3 ID : **6306801974365**
Option 4 ID : **6306801974367**
Status : **Answered**
Chosen Option : **2**

tor is commonly used for controlling the movement of a door lock in IoT applications?

lenoid actuator

actuator

vo actuator

pper motor

Question ID : **630680505197**
Option 1 ID : **6306801974320**
Option 2 ID : **6306801974319**
Option 3 ID : **6306801974317**
Option 4 ID : **6306801974318**
Status : **Answered**
Chosen Option : **3**

the purpose of predictive maintenance in automation?

ıximize inefficiency

inimize downtime by predicting maintenance needs

rease equipment breakdowns

ıore maintenance requirements

Question ID : **630680505205**
Option 1 ID : **6306801974352**
Option 2 ID : **6306801974350**
Option 3 ID : **6306801974349**
Option 4 ID : **6306801974351**
Status : **Answered**
Chosen Option : **2**

ıbe with divisions of 2 mm and a radius of 12 m has the sensitivity of about:

''

''

''

Question ID : **630680505221**
Option 1 ID : **6306801974414**
Option 2 ID : **6306801974415**
Option 3 ID : **6306801974416**
Option 4 ID : **6306801974413**
Status : **Answered**
Chosen Option : **4**

ıe primary consideration in the design of open-loop control systems?

edback mechanism

stem stability

sturbance rejection

ɔut-output relationship

Question ID : **630680505252**
Option 1 ID : **6306801974537**
Option 2 ID : **6306801974538**
Option 3 ID : **6306801974540**
Option 4 ID : **6306801974539**
Status : **Answered**
Chosen Option : **4**

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pen loop system which has G(S) = 20/S. The output y(t) for the unit step input u(t) is equal to:

u(t)

tu(t)

$t^2u(t)$

)

Question ID : **630680505253**
Option 1 ID : **6306801974541**
Option 2 ID : **6306801974542**
Option 3 ID : **6306801974543**
Option 4 ID : **6306801974544**
Status : **Answered**
Chosen Option : **1**

e of the Bathtub Curve is characterized by an increasing failure rate over time?

nstant failure

ant mortality

rmal life

ear-out

Question ID : **630680505220**
Option 1 ID : **6306801974412**
Option 2 ID : **6306801974409**
Option 3 ID : **6306801974410**
Option 4 ID : **6306801974411**
Status : **Answered**
Chosen Option : **4**

primary sensing mechanism of a surface plasmon resonance (SPR) sensor?

ange in electrical conductivity

ange in temperature

ange in mass

ange in refractive index

Question ID : **630680505225**
Option 1 ID : **6306801974431**
Option 2 ID : **6306801974432**
Option 3 ID : **6306801974429**
Option 4 ID : **6306801974430**
Status : **Answered**
Chosen Option : **4**

following communication technologies is commonly used in mobile phone transmitters?

lse Code Modulation (PCM)

equency Shift Keying (FSK)

ode Division Multiple Access (CDMA)

ase Shift Keying (PSK)

Question ID : **630680505246**
Option 1 ID : **6306801974516**
Option 2 ID : **6306801974513**
Option 3 ID : **6306801974515**
Option 4 ID : **6306801974514**
Status : **Answered**
Chosen Option : **3**

f the Bathtub Curve is associated with random failures that occur regardless of time in service?

nstant failure

rmal life

ear-out

ant mortality

Question ID : **630680505219**
Option 1 ID : **6306801974408**
Option 2 ID : **6306801974407**
Option 3 ID : **6306801974406**
Option 4 ID : **6306801974405**
Status : **Answered**
Chosen Option : **2**

he primary function of the Data Link Layer in the OSI Model?

gical addressing

ow control

or detection and correction

edia access control and framing

Question ID : **630680505230**
Option 1 ID : **6306801974450**
Option 2 ID : **6306801974451**
Option 3 ID : **6306801974449**
Option 4 ID : **6306801974452**
Status : **Answered**
Chosen Option : **4**

you create a virtual environment in Python?

ate venv myenv

ıv create myenv

thon -m venv myenv

tualenv myenv

Question ID : **630680505193**
Option 1 ID : **6306801974304**
Option 2 ID : **6306801974301**
Option 3 ID : **6306801974302**
Option 4 ID : **6306801974303**
Status : **Answered**
Chosen Option : **2**

the purpose of the bias term in a neural network?

reduce overfitting

introduce non-linearity

shift the decision boundary

initialize weights

Question ID : **630680505194**
Option 1 ID : **6306801974305**
Option 2 ID : **6306801974306**
Option 3 ID : **6306801974308**
Option 4 ID : **6306801974307**
Status : **Answered**
Chosen Option : **4**

ıg Bridge, what happens to the bridge current when the bridge is balanced?

ɔecomes zero

eaches maximum

s equal to the excitation current

s independent of balance

Question ID : **630680505263**
Option 1 ID : **6306801974581**
Option 2 ID : **6306801974582**
Option 3 ID : **6306801974584**
Option 4 ID : **6306801974583**
Status : **Answered**
Chosen Option : **1**

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s a Schmitt trigger help in debouncing a mechanical switch?

amplifying the switch signal

providing a noise-immune output

reducing power consumption

introducing noise to the circuit

Question ID : **630680505267**
Option 1 ID : **6306801974599**
Option 2 ID : **6306801974597**
Option 3 ID : **6306801974598**
Option 4 ID : **6306801974600**
Status : **Answered**
Chosen Option : **2**

the purpose of the guard circuit in a Schering Bridge?

mpensate for temperature changes

iminate stray capacitance

otect against over-voltage

nimize bridge sensitivity

Question ID : **630680505264**
Option 1 ID : **6306801974587**
Option 2 ID : **6306801974588**
Option 3 ID : **6306801974586**
Option 4 ID : **6306801974585**
Status : **Answered**
Chosen Option : **2**

he purpose of the STC instruction in the 8085 microprocessor?

ap Carry and Sign flags

re in the Cache

otract Carry flag

t Carry flag

Question ID : **630680505238**
Option 1 ID : **6306801974483**
Option 2 ID : **6306801974484**
Option 3 ID : **6306801974482**
Option 4 ID : **6306801974481**
Status : **Answered**
Chosen Option : **3**

structure is used to store an ordered, mutable collection of elements in Python?

st

:

ctionary

ple

Question ID : **630680505192**
Option 1 ID : **6306801974298**
Option 2 ID : **6306801974299**
Option 3 ID : **6306801974300**
Option 4 ID : **6306801974297**
Status : **Answered**
Chosen Option : **4**

f timer is used to delay an action for a specific amount of time after the timer is activated?

cumulating Timer

f-Delay Timer

ı-Delay Timer

tentive Timer

Question ID : **630680505228**
Option 1 ID : **6306801974444**
Option 2 ID : **6306801974442**
Option 3 ID : **6306801974441**
Option 4 ID : **6306801974443**
Status : **Answered**
Chosen Option : **3**

what is the typical fan-out for standard TTL gates?

Question ID : **630680505273**
Option 1 ID : **6306801974623**
Option 2 ID : **6306801974622**
Option 3 ID : **6306801974624**
Option 4 ID : **6306801974621**
Status : **Answered**
Chosen Option : **1**

ıdustry is a tachometer frequently used for monitoring equipment?

ıtomotive

althcare

ıriculture

nstruction

Question ID : **630680505257**
Option 1 ID : **6306801974559**
Option 2 ID : **6306801974558**
Option 3 ID : **6306801974557**
Option 4 ID : **6306801974560**
Status : **Answered**
Chosen Option : **1**

Bridge, how is the precision in measuring the capacitance of a high-voltage capacitor enhanced?

ɔorating a guard ring to minimize errors due to leakage currents

ı the application of a variable transformer in the circuit

ı the use of a precision air-gap capacitor as a reference

using a high-frequency excitation source

Question ID : **630680505265**
Option 1 ID : **6306801974591**
Option 2 ID : **6306801974590**
Option 3 ID : **6306801974592**
Option 4 ID : **6306801974589**
Status : **Answered**
Chosen Option : **1**

ɔe of modulation is commonly used in Bluetooth transmitters?

ɛquency Modulation (FM)

equency Shift Keying (FSK)

ase Shift Keying (PSK)

ıplitude Shift Keying (ASK)

Question ID : **630680505243**
Option 1 ID : **6306801974504**
Option 2 ID : **6306801974501**
Option 3 ID : **6306801974503**
Option 4 ID : **6306801974502**
Status : **Answered**

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he purpose of the RLC instruction in the 8085 microprocessor?

ad and Load Content

set Logic and Control

verse L and C registers

tate Accumulator Left through Carry

Question ID : **630680505239**
Option 1 ID : **6306801974488**
Option 2 ID : **6306801974487**
Option 3 ID : **6306801974486**
Option 4 ID : **6306801974485**
Status : **Answered**
Chosen Option : **4**

eset to 0 by the ANA instruction in the 8085 microprocessors regardless of the operation's outcome.?

ro flag

ity flag

n flag

rry flag

Question ID : **630680505240**
Option 1 ID : **6306801974490**
Option 2 ID : **6306801974492**
Option 3 ID : **6306801974489**
Option 4 ID : **6306801974491**
Status : **Answered**
Chosen Option : **3**

the purpose of the 'range()' function in Python?

generate a sequence of numbers

round a floating-point number

find the square root

calculate the factorial

Question ID : **630680505191**
Option 1 ID : **6306801974293**
Option 2 ID : **6306801974295**
Option 3 ID : **6306801974296**
Option 4 ID : **6306801974294**
Status : **Answered**
Chosen Option : **1**

or is commonly used for controlling the movement of a robotic joint in IoT applications?

ectric actuator

zoelectric actuator

lenoid actuator

vo actuator

Question ID : **630680505198**
Option 1 ID : **6306801974322**
Option 2 ID : **6306801974324**
Option 3 ID : **6306801974323**
Option 4 ID : **6306801974321**
Status : **Answered**
Chosen Option : **4**

the role of a controller in an open-loop system?

just the input based on the output

mpare the output with the reference input

ovide a constant input

asure the output

Question ID : **630680505250**
Option 1 ID : **6306801974531**
Option 2 ID : **6306801974530**
Option 3 ID : **6306801974532**
Option 4 ID : **6306801974529**
Status : **Answered**
Chosen Option : **1**

best describes the ability of a Schmitt trigger to have two different threshold levels?

steresis

lerance

nsitivity

namic range

Question ID : **630680505266**
Option 1 ID : **6306801974594**
Option 2 ID : **6306801974595**
Option 3 ID : **6306801974593**
Option 4 ID : **6306801974596**
Status : **Answered**
Chosen Option : **1**

the primary function of SCADA systems in automation?

ebsite development

ıployee attendance tracking

ventory management

eal-time monitoring and control

Question ID : **630680505207**
Option 1 ID : **6306801974358**
Option 2 ID : **6306801974359**
Option 3 ID : **6306801974357**
Option 4 ID : **6306801974360**
Status : **Answered**
Chosen Option : **4**

the purpose of a pneumatic actuator in process control?

generate alarms

measure pressure

control flow by adjusting the valve opening

transmit data wirelessly

Question ID : **630680505211**
Option 1 ID : **6306801974376**
Option 2 ID : **6306801974375**
Option 3 ID : **6306801974374**
Option 4 ID : **6306801974373**
Status : **Answered**
Chosen Option : **3**

ıe primary function of the Presentation Layer in the OSI Model?

or detection and correction

ıta compression and encryption

gical addressing

ow control

Question ID : **630680505231**
Option 1 ID : **6306801974453**
Option 2 ID : **6306801974454**
Option 3 ID : **6306801974456**
Option 4 ID : **6306801974455**
Status : **Answered**
Chosen Option : **2**

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is the role of the input capacitor a Schmitt trigger circuit,?

provide negative feedback

block DC components

filter high-frequency noise

store energy

Question ID : **630680505270**
Option 1 ID : **6306801974611**
Option 2 ID : **6306801974612**
Option 3 ID : **6306801974609**
Option 4 ID : **6306801974610**
Status : **Answered**
Chosen Option : **3**

of Power MOSFET is known for its high breakdown voltage and ruggedness?

nch MOSFET

IOS

IOS

)MOS

Question ID : **630680505234**
Option 1 ID : **6306801974468**
Option 2 ID : **6306801974467**
Option 3 ID : **6306801974466**
Option 4 ID : **6306801974465**
Status : **Answered**
Chosen Option : **1**

ology is commonly used for implementing the fixed OR array in modern PAL devices?

ish memory

polar

IOS

tifuse

Question ID : **630680505274**
Option 1 ID : **6306801974628**
Option 2 ID : **6306801974627**
Option 3 ID : **6306801974625**
Option 4 ID : **6306801974626**
Status : **Answered**
Chosen Option : **3**

:he primary function of the Session Layer in the OSI Model?

gical addressing

tablishing, maintaining, and terminating sessions

mpression and decompression

ta encryption

Question ID : **630680505232**
Option 1 ID : **6306801974460**
Option 2 ID : **6306801974458**
Option 3 ID : **6306801974457**
Option 4 ID : **6306801974459**
Status : **Answered**
Chosen Option : **2**

t computing technique is inspired by the process of natural selection?

ural Networks

t Colony Optimization

zzy Logic

netic Algorithms

Question ID : **630680505195**
Option 1 ID : **6306801974310**
Option 2 ID : **6306801974312**
Option 3 ID : **6306801974309**
Option 4 ID : **6306801974311**
Status : **Answered**
Chosen Option : **1**

the main goal of unsupervised learning?

ıssification

gression

inforcement

ustering

Question ID : **630680505196**
Option 1 ID : **6306801974313**
Option 2 ID : **6306801974314**
Option 3 ID : **6306801974316**
Option 4 ID : **6306801974315**
Status : **Answered**
Chosen Option : **2**

izontal distance of a point from the instrument, if the staff intercept is 1.6 m. The micrometer reading of the drum of 4.0 and the micrometer screw has 100 threads in 1 cm. The focal length of the objective glass is 300 mm and the strument axis from the centre of the object glass is 150 mm.

54.7

55.7

00.5

7.6

Question ID : **630680505260**
Option 1 ID : **6306801974572**
Option 2 ID : **6306801974570**
Option 3 ID : **6306801974571**
Option 4 ID : **6306801974569**
Status : **Answered**
Chosen Option : **4**

he role of robotics in the automation of warehouse operations?

ıtomate order fulfillment and inventory management

›mote inefficiency

rease manual labor

›w down processes

Question ID : **630680505204**
Option 1 ID : **6306801974347**
Option 2 ID : **6306801974348**
Option 3 ID : **6306801974346**
Option 4 ID : **6306801974345**
Status : **Answered**
Chosen Option : **1**

gger, what is the relationship between the hysteresis width and the positive feedback resistor value?

ersely proportional

rectly proportional

ponential

relationship

Question ID : **630680505268**
Option 1 ID : **6306801974604**
Option 2 ID : **6306801974603**
Option 3 ID : **6306801974602**
Option 4 ID : **6306801974601**
Status : **Answered**
Chosen Option : **1**

of vehicle component is often connected to a tachometer in automobiles?

el tank

ansmission

ering wheel

ake system

Question ID : **630680505259**
Option 1 ID : **6306801974567**
Option 2 ID : **6306801974566**
Option 3 ID : **6306801974568**
Option 4 ID : **6306801974565**
Status : **Answered**
Chosen Option : **3**

pe of device is a tachometer?

mperature sensor

eedometer

essure gauge

otation measuring device

Question ID : **630680505255**
Option 1 ID : **6306801974551**
Option 2 ID : **6306801974550**
Option 3 ID : **6306801974549**
Option 4 ID : **6306801974552**
Status : **Answered**
Chosen Option : **4**

n layer does the TCP protocol operate in the OSI Model?

ta Link Layer

ssion Layer

twork Layer

ansport Layer

Question ID : **630680505229**
Option 1 ID : **6306801974445**
Option 2 ID : **6306801974448**
Option 3 ID : **6306801974446**
Option 4 ID : **6306801974447**
Status : **Answered**
Chosen Option : **4**

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35 microprocessor, what is the function of the SHLD instruction?

ap H and L Direct

btract H and L Direct

ift Accumulator Left Double

ore H and L Direct

Question ID : **630680505241**
Option 1 ID : **6306801974496**
Option 2 ID : **6306801974495**
Option 3 ID : **6306801974493**
Option 4 ID : **6306801974494**
Status : **Answered**
Chosen Option : **4**

ing a Schering Bridge, what is commonly used as a standard reference?

capacitor

ndard resistor

riable transformer

ecision inductor

Question ID : **630680505262**
Option 1 ID : **6306801974578**
Option 2 ID : **6306801974577**
Option 3 ID : **6306801974580**
Option 4 ID : **6306801974579**
Status : **Answered**
Chosen Option : **2**

ous, what is the function code for writing multiple coils?

nction Code 16

nction Code 15

nction Code 05

nction Code 06

Question ID : **630680505210**
Option 1 ID : **6306801974372**
Option 2 ID : **6306801974371**
Option 3 ID : **6306801974369**
Option 4 ID : **6306801974370**
Status : **Answered**
Chosen Option : **4**

the role of the internal standard in Flame Photometry?

librate the instrument

onitor instrument drift

bilize the flame

hance sensitivity

Question ID : **630680505227**
Option 1 ID : **6306801974437**
Option 2 ID : **6306801974439**
Option 3 ID : **6306801974438**
Option 4 ID : **6306801974440**
Status : **Answered**
Chosen Option : **3**

owing types of sensors used in breathalyzers operates on the principle of change in resistance of semiconductor in lcohol gases.

zoresistive Sensors

ctrochemical fuel cell sensors

rared Optical Sensors

miconductor oxide sensors

Question ID : **630680505223**
Option 1 ID : **6306801974424**
Option 2 ID : **6306801974422**
Option 3 ID : **6306801974421**
Option 4 ID : **6306801974423**
Status : **Answered**
Chosen Option : **2**

le did Henry Ford play in the history of automation?

roduced assembly line production

veloped the steam engine

neered handcrafted manufacturing

ented the computer

Question ID : **630680505206**
Option 1 ID : **6306801974354**
Option 2 ID : **6306801974355**
Option 3 ID : **6306801974356**
Option 4 ID : **6306801974353**
Status : **Answered**
Chosen Option : **2**

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ɔcess is used to manufacture enhancement-mode GaN transistors?

y etching

ysical Vapor Deposition (PVD)

hography

etal Organic Chemical Vapor Deposition (MOCVD)

Question ID : **630680505235**
Option 1 ID : **6306801974469**
Option 2 ID : **6306801974472**
Option 3 ID : **6306801974471**
Option 4 ID : **6306801974470**
Status : **Answered**
Chosen Option : **2**

ɔes the term "local minimum" refer to in optimization?

solution that is only optimal in a small region

e smallest value of a function

e maximum value of a function

ɔolution that is optimal globally

Question ID : **630680505217**
Option 1 ID : **6306801974399**
Option 2 ID : **6306801974397**
Option 3 ID : **6306801974400**
Option 4 ID : **6306801974398**
Status : **Answered**
Chosen Option : **1**

the primary purpose of the fixed OR array in PAL devices?

ɹplements combinational logic

ɔilitates programming

plements sequential logic

ɔres configuration data

Question ID : **630680505275**
Option 1 ID : **6306801974631**
Option 2 ID : **6306801974630**
Option 3 ID : **6306801974629**
Option 4 ID : **6306801974632**
Status : **Answered**
Chosen Option : **1**

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ı common method for solving linear programming problems?

nplex method

nulated annealing

netic algorithm

rticle swarm optimization

Question ID : **630680505216**
Option 1 ID : **6306801974394**
Option 2 ID : **6306801974396**
Option 3 ID : **6306801974393**
Option 4 ID : **6306801974395**
Status : **Answered**
Chosen Option : **1**

of sensor is commonly used for detecting magnetic fields in IoT applications?

roscope

ıll effect sensor

rared sensor

ermocouple

Question ID : **630680505199**
Option 1 ID : **6306801974328**
Option 2 ID : **6306801974327**
Option 3 ID : **6306801974326**
Option 4 ID : **6306801974325**
Status : **Answered**
Chosen Option : **2**

r is responsible for determining the rate of change of output voltage in response to a change in input voltage?

ısitivity

ew rate

steresis

namic range

Question ID : **630680505269**
Option 1 ID : **6306801974606**
Option 2 ID : **6306801974608**
Option 3 ID : **6306801974605**
Option 4 ID : **6306801974607**
Status : **Answered**
Chosen Option : **1**

t of the accumulator is 8-bit signed binary, what is the range of values it can represent?

ɔ 255

:7 to 128

28 to 127

;6 to 255

Question ID : **630680505242**
Option 1 ID : **6306801974498**
Option 2 ID : **6306801974500**
Option 3 ID : **6306801974497**
Option 4 ID : **6306801974499**
Status : **Answered**
Chosen Option : **4**

ts out a total power of 3.06 Watts of 20% AM signal. How much power is contained in each of the sidebands?

)6 Watts

)9Watts

/atts

)3Watts

Question ID : **630680505247**
Option 1 ID : **6306801974520**
Option 2 ID : **6306801974519**
Option 3 ID : **6306801974517**
Option 4 ID : **6306801974518**
Status : **Answered**
Chosen Option : **2**

cument outlines the project's scope, objectives, and constraints?

sk Management Plan

oject Charter

ality Assurance Plan

keholder Analysis

Question ID : **630680505202**
Option 1 ID : **6306801974338**
Option 2 ID : **6306801974337**
Option 3 ID : **6306801974340**
Option 4 ID : **6306801974339**
Status : **Answered**
Chosen Option : **2**

ıg a stem movement at full travel of 20 mm mounted with a control valve having an equal percentage plug and with te of 2 $m^3/s$ and maximum flow rate of 12 $m^3/s$. When the stem movement is 10 mm, the flow rate will be:

ɔ0 $m^3/s$

0 $m^3/s$

ɔ0 $m^3/s$

ɔ0 $m^3/s$

Question ID : **630680505200**
Option 1 ID : **6306801974331**
Option 2 ID : **6306801974329**
Option 3 ID : **6306801974330**
Option 4 ID : **6306801974332**
Status : **Answered**
Chosen Option : **2**

nponent in a transmitter is responsible for shaping the signal spectrum?

lter

cillator

ɔdulator

ıtenna

Question ID : **630680505245**
Option 1 ID : **6306801974511**
Option 2 ID : **6306801974510**
Option 3 ID : **6306801974509**
Option 4 ID : **6306801974512**
Status : **Answered**
Chosen Option : **1**

'the following is a typical output signal of a pressure transmitter?

ɔw rate

ınd

nperature

ɔltage

Question ID : **630680505212**
Option 1 ID : **6306801974379**
Option 2 ID : **6306801974380**
Option 3 ID : **6306801974378**
Option 4 ID : **6306801974377**
Status : **Answered**
Chosen Option : **1**

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ɛ of optimization problem is Lagrange Multiplier method most suitable for?

adratic programming

constrained optimization

quality-constrained optimization

uality-constrained optimization

Question ID : **630680505218**
Option 1 ID : **6306801974402**
Option 2 ID : **6306801974401**
Option 3 ID : **6306801974403**
Option 4 ID : **6306801974404**
Status : **Answered**
Chosen Option : **4**

the purpose of a proximity sensor in process control?

detect the presence or absence of an object

generate reports

control actuators

measure pressure

Question ID : **630680505213**
Option 1 ID : **6306801974383**
Option 2 ID : **6306801974384**
Option 3 ID : **6306801974382**
Option 4 ID : **6306801974381**
Status : **Answered**
Chosen Option : **1**

ıe primary function of a chart recorder in process instrumentation?

store surplus energy

control pressure fluctuations

capture and display historical process data

control actuators

Question ID : **630680505214**
Option 1 ID : **6306801974386**
Option 2 ID : **6306801974388**
Option 3 ID : **6306801974387**
Option 4 ID : **6306801974385**
Status : **Answered**
Chosen Option : **2**

es, what is the typical value of input voltage for a high logic level ($V_{IH}$)?

) V

V

V

V

Question ID : **630680505271**
Option 1 ID : **6306801974615**
Option 2 ID : **6306801974616**
Option 3 ID : **6306801974613**
Option 4 ID : **6306801974614**
Status : **Answered**
Chosen Option : **3**

he role of a centrifugal governor in a mechanical tachometer?

nerate centrifugal force

ntrol temperature

easure atmospheric pressure

gulate rotational speed

Question ID : **630680505258**
Option 1 ID : **6306801974561**
Option 2 ID : **6306801974564**
Option 3 ID : **6306801974563**
Option 4 ID : **6306801974562**
Status : **Answered**
Chosen Option : **1**

r unit is expected to run continuously. The mean time between failure (MTBF) for this unit is 3,000 hours and the air (MTTR) is 24 hours. The availability of the air conditioning unit is (up to three decimal places).

89

76

45

92

Question ID : **630680505222**
Option 1 ID : **6306801974417**
Option 2 ID : **6306801974419**
Option 3 ID : **6306801974418**
Option 4 ID : **6306801974420**
Status : **Answered**
Chosen Option : **4**

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e primary advantage of using a quartz crystal microbalance (QCM) sensor?

ow response time

w sensitivity to temperature changes

gh sensitivity to specific gases

xpensive

Question ID : **630680505224**
Option 1 ID : **6306801974427**
Option 2 ID : **6306801974426**
Option 3 ID : **6306801974425**
Option 4 ID : **6306801974428**
Status : **Answered**
Chosen Option : **3**

does EDMI play in promoting sustainability in energy management?

ias no impact on sustainability

limiting data visibility

increasing energy consumption

promoting energy conservation

Question ID : **630680505261**
Option 1 ID : **6306801974573**
Option 2 ID : **6306801974576**
Option 3 ID : **6306801974574**
Option 4 ID : **6306801974575**
Status : **Answered**
Chosen Option : **2**

the purpose of a watchdog timer in a DCS system?

control the temperature of the control room

r the system's health and initiate corrective actions in case of a failure

count the number of operator actions

regulate communication between field devices

Question ID : **630680505215**
Option 1 ID : **6306801974392**
Option 2 ID : **6306801974390**
Option 3 ID : **6306801974389**
Option 4 ID : **6306801974391**
Status : **Answered**
Chosen Option : **3**

cope definition important in project management?

stablishes project timelines

ielps in cutting costs

clarifies project boundaries and deliverables

educes team workload

Question ID : **630680505201**
Option 1 ID : **6306801974334**
Option 2 ID : **6306801974333**
Option 3 ID : **6306801974335**
Option 4 ID : **6306801974336**
Status : **Answered**
Chosen Option : **3**

the primary characteristic of an open-loop control system?

edback is used

feedback is used

her feedback or feedforward is used

th feedback and feedforward are used

Question ID : **630680505249**
Option 1 ID : **6306801974525**
Option 2 ID : **6306801974526**
Option 3 ID : **6306801974528**
Option 4 ID : **6306801974527**
Status : **Answered**
Chosen Option : **2**

transmitters essential in the field of home automation?

receive TV signals

encrypt Wi-Fi signals

control household appliances

monitor energy consumption

Question ID : **630680505244**
Option 1 ID : **6306801974505**
Option 2 ID : **6306801974507**
Option 3 ID : **6306801974508**
Option 4 ID : **6306801974506**
Status : **Answered**
Chosen Option : **4**

ment is commonly used as an internal standard in Flame Photometry?

dium

lcium

thium

tassium

Question ID : **630680505226**
Option 1 ID : **6306801974434**
Option 2 ID : **6306801974436**
Option 3 ID : **6306801974433**
Option 4 ID : **6306801974435**
Status : **Answered**
Chosen Option : **3**

pen loop DC gain if the closed loop transfer function is $(6s+2)/(6s^2+8s+8)$ with unity feedback factor.

3

33

6

Question ID : **630680505254**
Option 1 ID : **6306801974546**
Option 2 ID : **6306801974547**
Option 3 ID : **6306801974548**
Option 4 ID : **6306801974545**
Status : **Answered**
Chosen Option : **2**

the significance of the "body effect" in Power MOSFETs?

fluences the threshold voltage

termines the gate-source voltage

hances thermal stability

fects the drain-source voltage

Question ID : **630680505236**
Option 1 ID : **6306801974475**
Option 2 ID : **6306801974473**
Option 3 ID : **6306801974476**
Option 4 ID : **6306801974474**
Status : **Answered**
Chosen Option : **2**

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the acronym RACI stand for in the context of project management documents?

source Allocation and Cost Integration

sponsible, Accountable, Consulted, Informed

quirements Analysis and Change Implementation

sk Assessment and Control Information

Question ID : **630680505203**
Option 1 ID : **6306801974342**
Option 2 ID : **6306801974344**
Option 3 ID : **6306801974343**
Option 4 ID : **6306801974341**
Status : **Answered**
Chosen Option : **4**

what is the purpose of a pull-up resistor?

prove noise immunity

rease fan-out

duce power consumption

ovide biasing

Question ID : **630680505272**
Option 1 ID : **6306801974619**
Option 2 ID : **6306801974617**
Option 3 ID : **6306801974620**
Option 4 ID : **6306801974618**
Status : **Answered**
Chosen Option : **4**

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