OFFICIAL PREVIOUS YEAR PAPER

AAI JE AO

Junior Executive (Airport Operations)

26 March 2021

Conducted by	Airports Authority of India
Time	8:00 AM - 10:00 AM (2 hours)
Questions	120, all multiple choice

Sections		
	General Knowledge	15
	Reasoning	15
	Numerical Ability	15
	English	15
	Domain Knowledge	60

Green tick = AAI's official answer.
Candidate details removed; nothing else changed.
Attempt it as a 120-minute mock, then check.
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भारतीय विमानपत्तन प्राधिकरण

(मिनी रत्न - श्रेणी - 1 सार्वजनिक क्षेत्र का उद्यम)

AIRPORTS AUTHORITY OF INDIA

(Schedule – 'A' Mini Ratna – Category – 1 Public Sector Enterprise)

Participant ID	
Participant Name	
Test Center Name	
Test Date	26/03/2021
Test Time	8:00 AM - 10:00 AM
Subject	Jr. Executive (Airport Operations)

Section : **General Knowledge**

Q.1 What is the full form of CNS?

Ans

✗ A. Communication Nautical System

✗ B. Communication Navigation System

✗ C. Communication Nautical Surveillance

✓ D. Communication Navigation Surveillance

Question ID : **5038904285**
Status : **Answered**
Chosen Option : **2**

Q.2 'Hypertension' is also referred to as _____.

Ans

✗ A. obesity

✗ B. Sinusitis

✗ C. depression

✓ D. high blood pressure

Question ID : **5038904297**
Status : **Answered**
Chosen Option : **4**

Q.3 The full form of ATC is _____.

Ans

✓ A. Air Traffic Control

✗ B. Air Traffic Corporation

✗ C. Air Transit Controller

✗ D. Air Transit Control

Question ID : **5038904286**
Status : **Answered**
Chosen Option : **1**

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Q.4 Where is the hub of Etihad Airways?

Ans

✗ A. Pyongyang

✗ B. Amman

✗ C. Kuala Lumpur

✓ D. Abu Dhabi

Question ID : **5038904289**
Status : **Answered**
Chosen Option : **3**

Q.5 Which of the following civilisations was also known as 'Harrappan culture'?

Ans

✗ A. Mohenjodaro

✓ B. Indus Valley Civilisation

✗ C. Vedic Civilisation

✗ D. The Mayan Civilisation

Question ID : **5038904296**
Status : **Answered**
Chosen Option : **2**

Q.6 What is the shape of a profile of an airplane's wing?

Ans

✗ A. Oval

✗ B. Rectangular

✗ C. Oblong

✓ D. Aerofoil

Question ID : **5038904292**
Status : **Answered**
Chosen Option : **4**

Q.7 Identify the correct sequence of steps to board a flight.

Ans

✗ A. Arrive at the terminal – check in – go to the waiting lounge – go to the CISF gate – go to the boarding gate

✗ B. Arrive at the terminal – check in- go to the CISF gate – go to the waiting lounge – go to the boarding gate

✗ C. Go to the boarding gate – arrive at the terminal – go to the CISF gate – check in – go to the waiting lounge

✓ D. Arrive at the terminal – go to the CISF gate – check in – go to the waiting lounge – go to the boarding gate

Question ID : **5038904290**
Status : **Answered**
Chosen Option : **2**

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Q.8 Which of the following electoral systems is used in Lok Sabha elections in India?

Ans
- ✔ A. First past the post
- ✘ B. Draw of lots
- ✘ C. Single transferable vote system
- ✘ D. Proportional representation

Question ID : **5038904299**
Status : **Answered**
Chosen Option : **4**

Q.9 Which of the following airports is a domestic airport?

Ans
- ✘ A. Kozhikode airport
- ✘ B. Gaya airport
- ✘ C. Chandigarh airport
- ✔ D. Kanpur airport

Question ID : **5038904295**
Status : **Answered**
Chosen Option : **2**

Q.10 Through how many states of India does the river Ganga flow?

Ans
- ✘ A. 10
- ✘ B. 9
- ✔ C. 11
- ✘ D. 8

Question ID : **5038904298**
Status : **Answered**
Chosen Option : **4**

Q.11 Which system of an aircraft enables it to land in auto mode and with precision?

Ans
- ✔ A. Instrument Landing System
- ✘ B. Turbo Landing System
- ✘ C. Brake Landing System
- ✘ D. Scheduled Landing System

Question ID : **5038904294**
Status : **Answered**
Chosen Option : **1**

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Q.12 What is the term used for a defined rectangular area on a land aerodrome for the landing and take-off run of aircrafts along its length?

Ans
- ✗ A. Movement area
- ✗ B. Apron
- ✓ C. Runway
- ✗ D. Taxiway

Question ID : **5038904287**
Status : **Answered**
Chosen Option : **3**

Q.13 Which of the following is an Indian state-owned aerospace and defence company?

Ans
- ✗ A. Boeing
- ✓ B. HAL
- ✗ C. Airbus
- ✗ D. ATR

Question ID : **5038904291**
Status : **Answered**
Chosen Option : **2**

Q.14 Approximately how many passengers can be seated in a Boeing 747-400 aircraft?

Ans
- ✗ A. 200
- ✓ B. 400
- ✗ C. 900
- ✗ D. 100

Question ID : **5038904293**
Status : **Answered**
Chosen Option : **2**

Q.15 _____ is a code for a routine aviation weather report issued on hourly or half-an-hourly basis.

Ans
- ✗ A. SPECI
- ✗ B. CAVOK
- ✗ C. RMK
- ✓ D. METAR

Question ID : **5038904288**
Status : **Answered**
Chosen Option : **4**

Section : **General Intelligence**

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Q.1 **Select the option in which the numbers are related in the same way as are the numbers of the following set.**
(20, 5, 2)

Ans
- ✗ A. (25, 5, 5)
- ✗ B. (50, 2, 5)
- ✗ C. (12, 4, 8)
- ✓ D. (30, 3, 5)

Question ID : **5038904311**
Status : **Answered**
Chosen Option : **2**

Q.2 **Select the option that is related to the third word in the same way as the second word is related to the first word.**
Energy : Joule :: Volume : ?

Ans
- ✗ A. Metre
- ✗ B. Kilogram
- ✗ C. Gram
- ✓ D. Litre

Question ID : **5038904302**
Status : **Answered**
Chosen Option : **4**

Q.3 **Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.**
1. Asia
2. Lucknow
3. India
4. Uttar Pradesh
5. World

Ans
- ✗ A. 2, 4, 3, 5, 1
- ✗ B. 4, 2, 3, 1, 5
- ✓ C. 2, 4, 3, 1, 5
- ✗ D. 5, 1, 4, 3, 2

Question ID : **5038904308**
Status : **Answered**
Chosen Option : **3**

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Q.4 **A question is given, followed by two arguments. Decide which of the arguments is/are valid with respect to the question.**
Question:
Should the government of India allow citizens to use cryptocurrency?
Arguments:
(i): Yes, it will facilitate citizens to send money instantly anywhere in the world without needing to visit the bank.
(ii): No, cryptocurrency is decentralised and hence, neither the government nor banks have any control over it.

Ans
- ✗ A. Only argument (i) is valid
- ✗ B. Only argument (ii) is valid
- ✗ C. Neither argument (i) nor argument (ii) is valid
- ✓ D. Both arguments (i) and (ii) are valid

Question ID : **5038904306**
Status : **Answered**
Chosen Option : **4**

Q.5 **Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.**
1. Province
2. Block
3. Continent
4. Country
5. District

Ans
- ✗ A. 2, 5, 4, 1, 3
- ✗ B. 4, 3, 1, 5, 2
- ✓ C. 2, 5, 1, 4, 3
- ✗ D. 3, 4, 5, 1, 2

Question ID : **5038904307**
Status : **Answered**
Chosen Option : **3**

Q.6 **Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.**
UA, NE, GI, ZM, ?

Ans
- ✗ A. SR
- ✗ B. TQ
- ✗ C. RQ
- ✓ D. SQ

Question ID : **5038904300**
Status : **Answered**
Chosen Option : **4**

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Q.7 **Select the option that is related to the third number in the same way as the second number is related to the first number.**
234 : 12 :: 429 : ?

Ans
- ✗ A. 24
- ✗ B. 19
- ✗ C. 20
- ✓ D. 22

Question ID : **5038904310**
Status : **Answered**
Chosen Option : **1**

Q.8 **Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.**
Statements:
1. All mangoes are not bananas.
2. Some mangoes are guavas.
Conclusions:
I. Some guavas are not bananas.
II. All bananas are not mangoes.

Ans
- ✗ A. Neither conclusion I nor II follows
- ✓ B. Both conclusions I and II follow
- ✗ C. Only conclusion II follows
- ✗ D. Only conclusion I follows

Question ID : **5038904305**
Status : **Answered**
Chosen Option : **4**

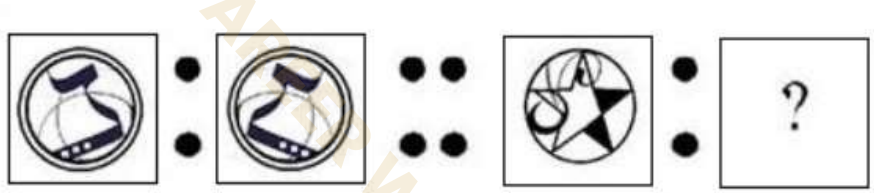
Q.9 **Select the option in which the letter-clusters share the same relationship as that shared by the given pair of letter-clusters.**
FAN : XWL

Ans
- ✗ A. MFT : EAR
- ✓ B. IBW : AXU
- ✗ C. LFB : DBX
- ✗ D. HAT : ZWV

Question ID : **5038904303**
Status : **Answered**
Chosen Option : **4**

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Q.10 **Select the option that is related to the third figure in the same way as the second figure is related to the first figure.**



Ans

✗ A.



✓ B.



✗ C.



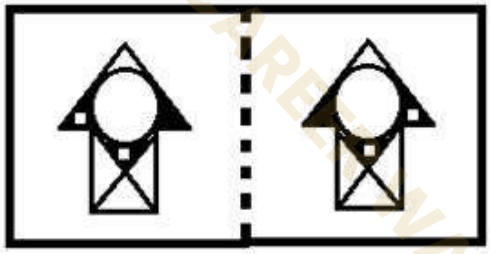
✗ D.



Question ID : **5038904314**
Status : **Answered**
Chosen Option : **2**

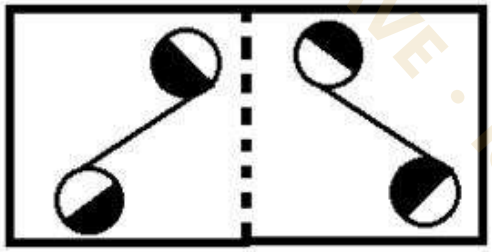
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Q.11 Select the option in which the figures share the same relationship as that shared by the given pair of figures.

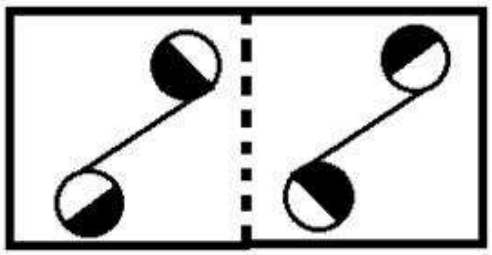


Ans

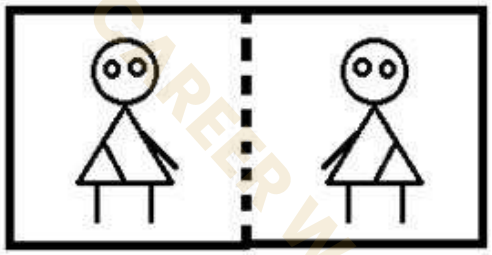
✗ A.



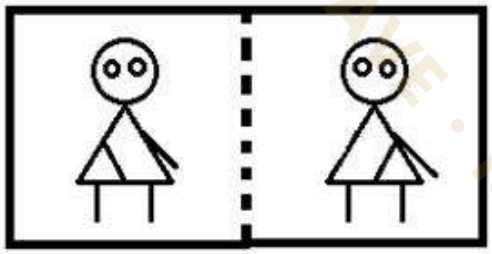
✗ B.



✓ C.



✗ D.



Question ID : **5038904313**
Status : **Answered**
Chosen Option : **3**

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Q.12 In a certain code language, CASTLE is coded as 532122147, and CHANCE is coded as 51031657. How will CENTRE be coded as in that language?

Ans
- ✗ A. 131218163
- ✗ B. 351420185
- ✗ C. 702221675
- ✓ D. 571622207

Question ID : **5038904304**
Status : **Answered**
Chosen Option : **4**

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Q.13 **Select the figure from among the given options that can replace the question mark (?) in the following series.**



Ans

✗ A.



✗ B.



✓ C.



✗ D.



Question ID : **5038904312**
Status : **Answered**
Chosen Option : **3**

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Q.14 Select the alphanumeric-cluster from among the given options that can replace the question mark (?) in the following series.
B2, D5, G11, L17, S23, ?

Ans
✗ A. D29
✗ B. U31
✓ C. D31
✗ D. B31

Question ID : **5038904301**
Status : **Answered**
Chosen Option : **4**

Q.15 Select the number from among the given options that can replace the question mark (?) in the following series.
14, 22, 34, ?, 70

Ans
✗ A. 48
✓ B. 50
✗ C. 52
✗ D. 46

Question ID : **5038904309**
Status : **Answered**
Chosen Option : **2**

Section : **General Aptitude**

Q.1 The difference between the compound interest and simple interest on a certain sum at 10 percent per annum for 2 years is Rs. 900. The final sum is:

Ans
✗ A. Rs. 92,000
✗ B. Rs. 85,000
✗ C. Rs. 89,000
✓ D. Rs. 90,000

Question ID : **5038904326**
Status : **Answered**
Chosen Option : **3**

Q.2 The price of product A increases by 80 paisa every year, while the price of product B increases by 30 paisa every year. If in 2020, the price of product A was Rs. 8.40 and that of product B was Rs. 12.60, then in which year will product A cost 80 paisa more than product B?

Ans
✗ A. 2025
✗ B. 2029
✓ C. 2030
✗ D. 2028

Question ID : **5038904329**
Status : **Answered**
Chosen Option : **2**

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Q.3 A conical vessel, whose internal radius is 24 cm and height 100 cm, is full of liquid. The contents are emptied into a cylindrical vessel with internal radius of 20 cm. Find the height to which the liquid rises in the cylindrical vessel.

Ans
- ✔ A. 48 cm
- ✘ B. 45 cm
- ✘ C. 47 cm
- ✘ D. 49 cm

Question ID : **5038904327**
Status : **Answered**
Chosen Option : **1**

Q.4 Find the value of ***X***.

136.009 + 342.981 – 146.304 = 124.6 + *X*

Ans
- ✘ A. 572.126
- ✘ B. 346.009
- ✘ C. 167.228
- ✔ D. 208.086

Question ID : **5038904318**
Status : **Answered**
Chosen Option : **4**

Q.5 X, Y and Z agree to do a work for Rs. 1,200. X alone can do it in 12 days, while Y alone can do it in 16 days. With the help of Z, they finish it in 6 days. Find the share of Z.

Ans
- ✘ A. Rs. 418
- ✘ B. Rs. 814
- ✘ C. Rs. 200
- ✔ D. Rs. 150

Question ID : **5038904320**
Status : **Answered**
Chosen Option : **3**

Q.6 $5\frac{1}{2}+3\frac{1}{6}+x+4\frac{1}{3}=16\frac{1}{3}$

Ans
- ✔ A. $3\frac{1}{3}$
- ✘ B. $4\frac{1}{3}$
- ✘ C. $4\frac{1}{6}$
- ✘ D. $3\frac{1}{6}$

Question ID : **5038904317**
Status : **Answered**
Chosen Option : **4**

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Q.7 **The distance between two ports X and Y is 1556 km. A boat covers the journey from X to Y at 84 km per hour and returns to X at a uniform speed of 56 km per hour. Find the average speed of the boat during the whole journey.**

Ans
- ✗ A. 70 km/h
- ✗ B. 67.8 km/h
- ✗ C. 65.5 km/h
- ✓ D. 67.2 km/h

Question ID : **5038904325**
Status : **Answered**
Chosen Option : **2**

Q.8 An owner spends $\frac{3}{10}$ of his profit on maintenance of machines, $\frac{2}{5}$ of his profit on paying salaries to workers, and $\frac{1}{8}$ on the electricity bill. If he has Rs. 28,000 left with him, find his expense on maintenance of machines.

Ans
- ✗ A. Rs. 80,000
- ✗ B. Rs. 28,000
- ✗ C. Rs. 60,000
- ✓ D. Rs. 48,000

Question ID : **5038904328**
Status : **Answered**
Chosen Option : **2**

Q.9 The LCM of $2^4 \times 3^3 \times 5 \times 11$, $2^5 \times 3^4 \times 5^3 \times 7^2 \times 11$ and $2^6 \times 3 \times 5^2 \times 7^3 \times 11$ is:

Ans
- ✓ A. $2^6 \times 3^4 \times 5^3 \times 7^3 \times 11$
- ✗ B. $2^6 \times 3^3 \times 5^3 \times 7^3 \times 11$
- ✗ C. $2^6 \times 3^4 \times 5^2 \times 7^3 \times 11$
- ✗ D. $2^4 \times 3^2 \times 5^3 \times 7^2 \times 11$

Question ID : **5038904316**
Status : **Answered**
Chosen Option : **3**

Q.10 **Arun purchased 20 kg of chocolate at Rs. 68 per kg and mixed it with 30 kg of dark chocolate at Rs. 78 per kg. At what rate should he sell the mixture to gain 50 percent profit?**

Ans
- ✓ A. Rs. 111
- ✗ B. Rs. 110
- ✗ C. Rs. 105
- ✗ D. Rs. 100

Question ID : **5038904324**
Status : **Answered**
Chosen Option : **2**

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Q.11 A boy has 50p, 25p and 10p coins in the ratio of 5 : 9 : 4, which amount to Rs. 412. Find the number of coins of each denomination.

Ans

✗ A. 50p = 720
25p = 320
10p = 400

✗ B. 50p = 400
25p = 320
10p = 720

✗ C. 50p = 320
25p = 400
10p = 720

✓ D. 50p = 400
25p = 720
10p = 320

Question ID : **5038904319**
Status : **Answered**
Chosen Option : **2**

Q.12 Suresh walks a certain distance and rides back, taking a total time of 72 minutes. He would walk both ways in 110 minutes. How long would it take Suresh to ride both ways?

Ans

✗ A. 72 minutes

✓ B. 34 minutes

✗ C. 110 minutes

✗ D. 32 minutes

Question ID : **5038904322**
Status : **Answered**
Chosen Option : **1**

Q.13 90 men can complete a work in 8 days. 3 days after they started working, 60 more men joined them. How many days will they now take to complete the remaining work?

Ans

✓ A. 3 days

✗ B. 6 days

✗ C. 4 days

✗ D. 5 days

Question ID : **5038904323**
Status : **Answered**
Chosen Option : **1**

Q.14 Ram spends 60 percent of his pocket money. His pocket money is increased by 40 percent and he increased his expenditure by 10 percent. Find the percentage increase in his saving.

Ans

✗ A. 60 percent

✗ B. 75 percent

✗ C. 40 percent

✓ D. 85 percent

Question ID : **5038904321**
Status : **Answered**
Chosen Option : **2**

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Q.15 Simplify: $\frac{(736\times736\times736)+(264\times264\times264)}{(736\times736)-(736\times264)+(264\times264)}$

Ans
- ✗ A. 10
- ✗ B. 10000
- ✗ C. 100
- ✓ D. 1000

Question ID : **5038904315**
Status : **Answered**
Chosen Option : **1**

Section : **General English**

Q.1 **Select the option that can be used as a one-word substitute for the given group of words.**
a body's ability to resist a particular disease

Ans
- ✗ A. strength
- ✗ B. vulnerability
- ✓ C. immunity
- ✗ D. fight

Question ID : **5038904339**
Status : **Answered**
Chosen Option : **3**

Q.2 **The below sentence is divided in 4 parts as shown in options. One of the parts contains grammatical error. Select the part that has grammatical error.**
Virtual movie premieres / have become a standard in Hollywood / for the outbreak of the pandemic / and this has ruined the business of the multiplexes.

Ans
- ✓ A. for the outbreak of the pandemic
- ✗ B. and this has ruined the business of the multiplexes.
- ✗ C. have become a standard in Hollywood
- ✗ D. Virtual movie premiers

Question ID : **5038904336**
Status : **Answered**
Chosen Option : **1**

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Q.3 Parts of a sentence are given below in jumbled order. Arrange the parts in the right order to form a meaningful sentence.
(A) but now with the fast emergence of the tourism sector,
(B) a decade ago, culinary tourism was still
(C) practically unknown to the Indian subcontinent
(D) this is set to find its own niche

Ans
✔ A. B, C, A, D
✘ B. C, D, B, A
✘ C. A, B, C, D
✘ D. D, B, C, A

Question ID : **5038904340**
Status : **Answered**
Chosen Option : **1**

Q.4 Select the most appropriate synonym of the given word.

DAWDLE

Ans
✔ A. Procrastinate
✘ B. Rush
✘ C. Speed
✘ D. Hasten

Question ID : **5038904331**
Status : **Answered**
Chosen Option : **2**

Q.5 Select the most appropriate phrase to fill in the blank.
After hours of looking for clues the detective's sharp eyes _____ a very small stain of blood on the rug.

Ans
✔ A. fell on
✘ B. fell in with
✘ C. fell over
✘ D. fell into

Question ID : **5038904332**
Status : **Answered**
Chosen Option : **1**

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Q.6 **Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.**
A: It is also the fastest commercial electric train in the world.
B: Shanghai maglev train, also known as the Shanghai Transrapid, is a magnetic levitation train that operates in Shanghai.
C: It is the oldest commercial maglev still in operation, and the first commercial high-speed maglev with a cruising speed of 431 km/h.
D: The line is the third commercially operated maglev line in history.

Ans
✔ A. B, D, C, A
✘ B. D, A, B, C
✘ C. A, D, C, B
✘ D. B, A, D, C

Question ID : **5038904338**
Status : **Answered**
Chosen Option : **1**

Q.7 **Select the most appropriate option to fill in the blanks.**
Born in Cuttack in a _____ family, Bose went to a college in erstwhile Calcutta and chose _____ as his political arena.

Ans
✘ A. famous; the cities
✔ B. prominent; the city
✘ C. popular; these city
✘ D. celebrity; a city

Question ID : **5038904334**
Status : **Answered**
Chosen Option : **2**

Q.8 **Select the option that expresses the given sentence in direct speech.**
My mother told me not to go to the park after sunset.

Ans
✔ A. My mother said, “Don’t go to the park after sunset.”
✘ B. My mother said, “You should not go to the park after sunset.”
✘ C. My mother said, “Didn’t I tell you not to go to the park after sunset?”
✘ D. My mother said, “You are advised not to go to the park after sunset.”

Question ID : **5038904337**
Status : **Answered**
Chosen Option : **1**

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Q.9 **The below sentence is divided in 4 parts as shown in options. One of the parts contains grammatical error. Select the part that has grammatical error.**

All those travellers who tested positive/ for the new UK variant of Covid-19/ have been kept in a single room designated with special health care facilities/ for constant monitoring by their respected state governments.

Ans
- ✗ A. have been kept in a single room designated with special health care facilities
- ✗ B. for the new UK variant of Covid-19
- ✓ C. for constant monitoring by their respected state governments
- ✗ D. All those travellers who tested positive

Question ID : **5038904335**
Status : **Answered**
Chosen Option : **2**

Q.10 **Select the most appropriate ANTONYM of the given word.**
FORTITUDE

Ans
- ✗ A. Bravery
- ✗ B. Steadfastness
- ✗ C. Courage
- ✓ D. Cowardice

Question ID : **5038904330**
Status : **Answered**
Chosen Option : **4**

Q.11 **Select the most appropriate option to fill in the blanks.**
After ten years of _____ in the US, Dr Kang made a decision, which she calls a _____ moment in her life, to return to India as a clinical scientist.

Ans
- ✓ A. hard work; defining
- ✗ B. work; sorrow
- ✗ C. worked; joy
- ✗ D. working; purpose

Question ID : **5038904333**
Status : **Answered**
Chosen Option : **1**

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Comprehension:

Read the given passage and answer the following questions.
In every corner of the world, intelligence and energy are evenly distributed, but opportunity, investment and effective organisations aren't.
Because we live in an interdependent world, we cannot escape each other's problems. We are all vulnerable to terror, weapons of mass destruction, the spread of disease, and the potentially calamitous effects of climate change.
The fact that one in four people who die this year will succumb to AIDS, tuberculosis, malaria, or infections related to dirty water casts a pall over all our children's future. As long as more than 100 million children in poor countries are not enrolled in school there will be political and social instability, with global implications.
There is a growing backlash against the global economy in both rich and poor nations where the economic growth that has been stimulated has not been broadly shared. About half the world's people still live on less than $2 a day. In the United States we have had five years of economic growth, worker productivity increases, and a forty year high of corporate profits, but median wages are flat, and the poverty rate among working families has risen, as has the percentage of people without health insurance. Increased outsourcing of production and services has intensified insecurity. Most of the economic gains of this decade have gone to those people with 10 per cent of incomes.
And, amidst all our wealth people are hungry, homeless, jobless, ill, disabled, desperate, isolated and ignored. There are children with dreams that will die without a helping hand.
The modern world with all its blessings is unequal, unstable and unsustainable. And so the great mission of the early 21st century is to move up our neighbourhoods, our nation, and the world toward integrated communities of shared opportunities, shared responsibilities, and a shared sense of genuine belonging based on the essence of every successful community that our common humanity is more important than our interesting differences.
(Source; Bill Clinton—on Giving)
Based on your reading of the passage answer the questions below by choosing the best option.

SubQuestion No : 12

Q.12 Which word in the passage means catastrophic or involving calamity?

Ans

✔ A. Calamitous

✘ B. Unsustainable

✘ C. Vulnerable

✘ D. Backlash

Question ID : **5038904344**
Status : **Answered**
Chosen Option : **3**

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Comprehension:

Read the given passage and answer the following questions.
In every corner of the world, intelligence and energy are evenly distributed, but opportunity, investment and effective organisations aren't.
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(Source; Bill Clinton—on Giving)
Based on your reading of the passage answer the questions below by choosing the best option.

SubQuestion No : 13

Q.13 The article is an appeal to all nations and communities of the world to be more:

Ans

✗ A. industrialised

✗ B. socialistic

✗ C. progressive

✓ D. humanitarian

Question ID : **5038904342**
Status : **Answered**
Chosen Option : **2**

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Comprehension:

Read the given passage and answer the following questions.
In every corner of the world, intelligence and energy are evenly distributed, but opportunity, investment and effective organisations aren't.
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(Source; Bill Clinton—on Giving)
Based on your reading of the passage answer the questions below by choosing the best option.

SubQuestion No : 14

Q.14 Which according to the author is the single most important factor that can remove social and political instability in the world?

Ans

✗ A. Integrated living

✗ B. Increased productivity

✗ C. Health insurance

✓ D. Education

Question ID : **5038904343**
Status : **Answered**
Chosen Option : **1**

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Comprehension:

Read the given passage and answer the following questions.
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(Source; Bill Clinton—on Giving)
Based on your reading of the passage answer the questions below by choosing the best option.

SubQuestion No : 15

Q.15 **As per passage, about half the world's people still live on less than _____ a day.**

Ans
✗ A. $4
✗ B. $3
✗ C. $1
✓ D. $2

Question ID : **5038904345**
Status : **Answered**
Chosen Option : **4**

Section : **Domain Questions**

Q.1 $If\ y = x\ sinx, then\ y'' + y =$ _____.

Ans
✗ A. 0
✗ B. $cosx$
✓ C. $2cosx$
✗ D. $sinx$

Question ID : **5038904359**
Status : **Answered**
Chosen Option : **3**

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Q.2 What is the equation of the straight line passing through $(-2,-1)$ and having inclination 150°?

Ans

✗ A. $x-\sqrt{3}y-2+\sqrt{3}=0$

✗ B. $x-\sqrt{3}y+2+\sqrt{3}=0$

✓ C. $x+\sqrt{3}y+2+\sqrt{3}=0$

✗ D. $x-\sqrt{3}y+2-\sqrt{3}=0$

Question ID : **5038904348**
Status : **Answered**
Chosen Option : **1**

Q.3 What is the general solution of $x(1+y^2)dx+y(1+x^2)dy=0$?

Ans

✗ A. $\dfrac{\log(1+x^2)}{\log(1+y^2)}=c$

✗ B. $\log\big((1+x^2)+(1+y^2)\big)=c$

✗ C. $\log(1+x^2)\log(1+y^2)=c$

✓ D. $(1+x^2)(1+y^2)=c$

Question ID : **5038904364**
Status : **Answered**
Chosen Option : **1**

Q.4 If $P(A)=\frac{3}{8}$, $P(B)=\frac{5}{8}$, $P(A\cup B)=\frac{3}{4}$, then $P(B|A)=$ _____.

Ans

✗ A. $\dfrac{4}{5}$

✓ B. $\dfrac{2}{3}$

✗ C. $\dfrac{7}{8}$

✗ D. $\dfrac{1}{3}$

Question ID : **5038904369**
Status : **Answered**
Chosen Option : **3**

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Q.5 What is the focus of the parabola $y^2 - x - 2y + 2 = 0$?

Ans
- ✔ A. $\left(\frac{5}{4}, 1\right)$
- ✘ B. $\left(-\frac{3}{4}, 1\right)$
- ✘ C. $\left(\frac{1}{4}, -1\right)$
- ✘ D. $\left(\frac{1}{4}, 1\right)$

Question ID : **5038904349**
Status : **Answered**
Chosen Option : **4**

Q.6 Distance from the point $(3, -2, 1)$ to the plane $3x - 4y + 12z = 3$ is:

Ans
- ✔ A. 2
- ✘ B. $\frac{10}{13}$
- ✘ C. $\frac{29}{13}$
- ✘ D. $\frac{29}{13}$

Question ID : **5038904366**
Status : **Answered**
Chosen Option : **3**

Q.7 The value of $i \times (j \times k) + j \times (k \times i) + k \times (i \times j)$ is:

Ans
- ✔ A. null vector
- ✘ B. i
- ✘ C. $i + k$
- ✘ D. unit vector

Question ID : **5038904368**
Status : **Answered**
Chosen Option : **4**

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Q.8 Integrating factor of $cosy + (xsiny - 1)\frac{dy}{dx} = 0$

Ans
- ✗ A. $siny$
- ✗ B. $cosy$
- ✗ C. $tany$
- ✓ D. $secy$

Question ID : **5038904365**
Status : **Answered**
Chosen Option : **3**

Q.9 $\lim_{x \to 0} \frac{sin9x}{tan7x} =$ _____.

Ans
- ✓ A. 9/7
- ✗ B. 1
- ✗ C. 7/9
- ✗ D. -1

Question ID : **5038904350**
Status : **Answered**
Chosen Option : **1**

Q.10 If a die is thrown, then the probability of getting a number greater than or equal to 3 is:

Ans
- ✓ A. $\frac{2}{3}$
- ✗ B. $\frac{5}{6}$
- ✗ C. $\frac{1}{6}$
- ✗ D. $\frac{1}{3}$

Question ID : **5038904352**
Status : **Answered**
Chosen Option : **1**

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Q.11 If $A=\begin{bmatrix}1 & i & -i\\ i & -i & 1\\ -i & 1 & i\end{bmatrix}$, then $|A| =$ _____.

Ans
- ✗ A. $-i$
- ✗ B. i
- ✓ C. 2
- ✗ D. 1

Question ID : **5038904354**
Status : **Answered**
Chosen Option : **1**

Q.12 The solution of $\frac{3(x-2)}{5} \leq \frac{5(2-x)}{3}$ is:

Ans
- ✓ A. $(-\infty, 2]$
- ✗ B. $[-\infty, 2]$
- ✗ C. $(-\infty, 2)$
- ✗ D. $(0, 2)$

Question ID : **5038904351**
Status : **Answered**
Chosen Option : **1**

Q.13 $\int_0^{\frac{\pi}{2}} cos^6 x \ dx =$ _____.

Ans
- ✗ A. $\frac{15\pi}{48}$
- ✗ B. $\frac{15}{48}$
- ✗ C. $\frac{15}{96}$
- ✓ D. $\frac{15\pi}{96}$

Question ID : **5038904361**
Status : **Answered**
Chosen Option : **1**

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Q.14 What is the distance from the origin to the line $3x + 4y + 5 = 0$?

Ans
- ✗ A. 5
- ✗ B. 3
- ✗ C. 4
- ✓ D. 1

Question ID : **5038904347**
Status : **Answered**
Chosen Option : **1**

Q.15 The area bounded by the parabola $y^2 = 4x$ and the latus rectum is:

Ans
- ✗ A. $\frac{4}{3}$
- ✓ B. $\frac{8}{3}$
- ✗ C. $\frac{2}{3}$
- ✗ D. $\frac{3}{4}$

Question ID : **5038904362**
Status : **Answered**
Chosen Option : **1**

Q.16 If $y = \sin^{-1}(3x - 4x^3)$, then $\frac{dy}{dx} =$ _____.

Ans
- ✗ A. $-\frac{3}{\sqrt{1-x^2}}$
- ✗ B. $-\frac{1}{\sqrt{1-x^2}}$
- ✓ C. $\frac{3}{\sqrt{1-x^2}}$
- ✗ D. $\frac{1}{\sqrt{1-x^2}}$

Question ID : **5038904357**
Status : **Answered**
Chosen Option : **1**

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Q.17 $Adjoint\ of\ A = \begin{bmatrix} 1 & 1 & 1 \\ 2 & -1 & 3 \\ 4 & 0 & 5 \end{bmatrix}$ is:

Ans

✔ A. $\begin{bmatrix} -5 & -5 & 4 \\ 2 & 1 & -1 \\ 4 & 4 & -3 \end{bmatrix}$

✘ B. $\begin{bmatrix} -5 & 2 & 4 \\ -5 & 1 & 4 \\ 4 & -1 & -3 \end{bmatrix}$

✘ C. $\begin{bmatrix} -5 & -2 & 4 \\ 5 & 1 & -4 \\ 4 & 1 & -3 \end{bmatrix}$

✘ D. $\begin{bmatrix} -5 & 5 & 4 \\ -2 & 1 & 1 \\ 4 & -4 & -3 \end{bmatrix}$

Question ID : **5038904355**
Status : **Answered**
Chosen Option : **3**

Q.18 The area bounded by the parabolas $y = x^2$ *and* $x = y^2$ is:

Ans

✔ A. $\frac{1}{3}$

✘ B. $\frac{1}{2}$

✘ C. $\frac{2}{3}$

✘ D. $\frac{3}{2}$

Question ID : **5038904363**
Status : **Answered**
Chosen Option : **1**

Q.19 $\frac{sin15A+sin5A}{cos15A+cos5A} =$ _____.

Ans

✘ A. $cos10A$

✘ B. $sin10A$

✔ C. $tan10A$

✘ D. $cot10A$

Question ID : **5038904346**
Status : **Answered**
Chosen Option : **1**

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Q.20 $\tan^{-1}\left(\frac{1}{3}\right)+\tan^{-1}\left(\frac{1}{7}\right)=$ _____.

Ans

✔ A. $\tan^{-1}\left(\frac{1}{2}\right)$

✘ B. $\tan^{-1}\left(\frac{1}{21}\right)$

✘ C. $\frac{\pi}{4}$

✘ D. $\tan^{-1}\left(\frac{1}{3}\right)$

Question ID : **5038904356**
Status : **Answered**
Chosen Option : **3**

Q.21 If $\frac{x-1}{3k}=\frac{y-2}{1}=\frac{z-3}{-5}$ *and* $\frac{x-1}{-3}=\frac{y-2}{2k}=\frac{z-3}{2}$ are perpendicular, then $k=$ _____.

Ans

✔ A. $\frac{10}{-7}$

✘ B. $\frac{10}{7}$

✘ C. -7

✘ D. -5

Question ID : **5038904367**
Status : **Answered**
Chosen Option : **1**

Q.22 If $y=x^{logx}$, then $\frac{dy}{dx}=$ _____.

Ans

✘ A. $\frac{2logx}{x}$

✔ B. $2logx\,.x^{logx-1}$

✘ C. $\log x\;.x^{logx}$

✘ D. $logx\,.x^{x}$

Question ID : **5038904358**
Status : **Answered**
Chosen Option : **1**

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Q.23 $f(x) = 2x^3 - 9x^2 + 12x + 5$ is minimum at $x =$ _____.

Ans
- ✗ A. 0
- ✗ B. 1
- ✓ C. 2
- ✗ D. 3

Question ID : **5038904360**
Status : **Answered**
Chosen Option : **4**

Q.24 What is the range of the function $f(x) = 1 + 3cos2x$?

Ans
- ✗ A. $[-2,3]$
- ✓ B. $[-2,4]$
- ✗ C. $[-1,2]$
- ✗ D. $[-1,1]$

Question ID : **5038904353**
Status : **Answered**
Chosen Option : **3**

Q.25 **Which of the following is NOT an example of trivalent impurity in intrinsic semiconductors?**

Ans
- ✗ A. In
- ✓ B. As
- ✗ C. Al
- ✗ D. B

Question ID : **5038904383**
Status : **Answered**
Chosen Option : **3**

Q.26 **In the Young's Double slit Experiment, two slits are made one millimeter apart and the screen is placed 1.5 m away. What is the fringe separation when blue-green light of wavelength 500 nm is used?**

Ans
- ✗ A. 0.5 mm
- ✗ B. 1.5 mm
- ✗ C. 0.375 mm
- ✓ D. 0.75 mm

Question ID : **5038904387**
Status : **Answered**
Chosen Option : **3**

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Q.27 **The moment of inertia of a thin circular ring with radius R with axis along diameter is given by:**

Ans

✗ A. $\frac{(MR^2)}{4}$

✓ B. $\frac{(MR^2)}{2}$

✗ C. $\frac{(M^2R^2)}{2}$

✗ D. $\frac{(MR)}{2}$

Question ID : **5038904378**
Status : **Answered**
Chosen Option : **1**

Q.28 A bullet of mass 0.03 kg moving with a speed of 90 m s^{-1} enters a heavy wooden block and is stopped after a distance of 60 cm. What is the average resistive force exerted by the block on the bullet?

Ans

✗ A. 101.25

✓ B. 202.5 N

✗ C. 270 N

✗ D. 405

Question ID : **5038904375**
Status : **Answered**
Chosen Option : **3**

Q.29 Which of the following quantities has dimension formula of $M^1L^0T^{-2}$?

Ans

✗ A. Angular frequency

✗ B. Momentum

✗ C. Kinetic energy

✓ D. Surface tension

Question ID : **5038904370**
Status : **Answered**
Chosen Option : **2**

Q.30 **The current I through resistance R on applying voltage V was measured as below. V = (100 ± 4) V and I = (10 ± 0.3) A. Find the percentage error in R.**

Ans

✗ A. 1 percent

✓ B. 7 percent

✗ C. 4 percent

✗ D. 3 percent

Question ID : **5038904384**
Status : **Answered**
Chosen Option : **2**

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Q.31 The equation of SHM is y= a sin (3 π n t +α). Then its phase at time t is:

Ans
- ✗ A. zero
- ✗ B. 3πt
- ✗ C. A
- ✓ D. 3 π n t +α

Question ID : **5038904380**
Status : **Answered**
Chosen Option : **4**

Q.32 The decrease in potential energy of a ball of mass 10 kg that falls from height of 50 cm is (take g= 10 m/s^2):

Ans
- ✓ A. 50 J
- ✗ B. 5 J
- ✗ C. 100 J
- ✗ D. 10 J

Question ID : **5038904377**
Status : **Answered**
Chosen Option : **1**

Q.33 The average power supplied to an inductor over one complete cycle is _____

Ans
- ✓ A. Zero
- ✗ B. 10 W
- ✗ C. 1 W
- ✗ D. Infinite

Question ID : **5038904389**
Status : **Answered**
Chosen Option : **4**

Q.34 A man goes 6 m north. Then he goes 8 m towards east. What is his displacement?

Ans
- ✗ A. 6 m
- ✓ B. 10 m
- ✗ C. 8 m
- ✗ D. 14 m

Question ID : **5038904372**
Status : **Answered**
Chosen Option : **2**

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Q.35 If longitudinal strain for a wire is 0.02 and its Poisson's ratio is 0.5, find lateral strain.

Ans

✗ A. 0.001

✗ B. 0.1

✓ C. 0.01

✗ D. 1.0

Question ID : **5038904382**
Status : **Answered**
Chosen Option : **3**

Q.36 A tuning fork makes 220 vibrations per second in air. When the velocity of sound is 330 m/s, the wavelength of tone emitted is:

Ans

✗ A. 3 m

✓ B. 1.5 m

✗ C. 4.5 m

✗ D. 0.66 m

Question ID : **5038904376**
Status : **Answered**
Chosen Option : **4**

Q.37 The depth of ocean is 5000 m. Calculate the pressure exerted by water at the bottom of the ocean (take $g = 10\ m\ s^{-2}$).

Ans

✗ A. $2.5 \times 10^7 N\,m^{-2}$

✗ B. $50 \times 10^7 N\,m^{-2}$

✗ C. $25 \times 10^7 N\,m^{-2}$

✓ D. $5 \times 10^7 N\,m^{-2}$

Question ID : **5038904381**
Status : **Answered**
Chosen Option : **4**

Q.38 A force of 6 N acts on a particle along the direction, making angle of 60° with vertical. Its vertical component will be:

Ans

✗ A. 6 N

✗ B. 12 N

✗ C. 3.6 N

✓ D. 3 N

Question ID : **5038904374**
Status : **Answered**
Chosen Option : **4**

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Q.39 In case of step-up transformer, which option is correct?

Ans

✗ A. $V_s < V_p$

✗ B. (transformer ratio) K<1

✓ C. $R_s > R_p$

✗ D. $N_s < N_p$

Question ID : **5038904391**
Status : **Answered**
Chosen Option : **4**

Q.40 In a Zener-regulated power supply a Zener diode with $V_Z = 5.0$ V is used for regulation. The load current is to be 5.0 mA and the unregulated input is 10.0 V. What should be the value of series resistor R_S. Let Zener current $I_z = 20$mA.

Ans

✗ A. 150 Ω

✗ B. 50 Ω

✓ C. 200 Ω

✗ D. 250 Ω

Question ID : **5038904385**
Status : **Answered**
Chosen Option : **3**

Q.41 A 200 m long train is moving with a uniform velocity of 45 km/h. Calculate the time taken by the train to cross the bridge of length 800 m.

Ans

✓ A. 80 sec

✗ B. 45 sec

✗ C. 64 sec

✗ D. 100 sec

Question ID : **5038904373**
Status : **Answered**
Chosen Option : **1**

Q.42 Which option represents the law of radioactive decay?

Ans

✗ A. $N(t) = N(0)\, e^{2\lambda t}$

✗ B. $N(t) = N(0)\, e^{\lambda t}$

✗ C. $N(t) = N(0)\, e^{-2\lambda/t}$

✓ D. $N(t) = N(0)\, e^{-\lambda t}$

Question ID : **5038904393**
Status : **Answered**
Chosen Option : **3**

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Q.43 The temperature in Fahrenheit scale is 77° F. Calculate the temperature in °C.

Ans
- ✗ A. 28
- ✗ B. 21
- ✗ C. 23
- ✓ D. 25

Question ID : **5038904379**
Status : **Answered**
Chosen Option : **3**

Q.44 The truth table shown below corresponds to which logic gate?

Input		Output
A	B	Y
0	0	1
0	1	1
1	0	1
1	1	0

Ans
- ✓ A. NAND
- ✗ B. NOT
- ✗ C. NOR
- ✗ D. OR

Question ID : **5038904386**
Status : **Answered**
Chosen Option : **1**

Q.45 If the time period of oscillation of a pendulum is measured as 1.5 seconds using a stop watch with least count of ½ second, the permissible error in the measurement is:

Ans
- ✗ A. 50 percent
- ✗ B. 20 percent
- ✓ C. 33.3 percent
- ✗ D. 24.5 percent

Question ID : **5038904371**
Status : **Answered**
Chosen Option : **1**

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Q.46 "The magnitude of the induced emf in a circuit is equal to the time rate of change of magnetic flux through the circuit". This statement pertains to:

Ans
- ✔ A. Faraday's law
- ✘ B. Ampere's law
- ✘ C. Gauss law
- ✘ D. Ohm's law

Question ID : **5038904390**
Status : **Answered**
Chosen Option : **1**

Q.47 A body has -70 micro-Coulomb of charge. The number of additional electrons in it will be

(charge of electron $e = -1.6 \times 10^{-19}$):

Ans
- ✘ A. 1.6×10^{14}
- ✘ B. 1.2×10^{14}
- ✔ C. 4.3×10^{14}
- ✘ D. 3.4×10^{14}

Question ID : **5038904392**
Status : **Answered**
Chosen Option : **3**

Q.48 Which of the following has highest refractive index?

Ans
- ✔ A. Diamond
- ✘ B. Crown glass
- ✘ C. Water
- ✘ D. Dense flint glass

Question ID : **5038904388**
Status : **Answered**
Chosen Option : **1**

Q.49 Which of the following best describes the tendency of some people to work harder or perform better when they know that they are being observed?

Ans
- ✔ A. Hawthorne effect
- ✘ B. Status effect
- ✘ C. Just-in-time management
- ✘ D. Halo effect

Question ID : **5038904398**
Status : **Answered**
Chosen Option : **1**

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Q.50 _____ is deciding in advance – what to do, when to do and how to do. It bridges the gap from where we are and where we want to be.

Ans
- ✗ A. Directing
- ✗ B. Recruiting
- ✓ C. Planning
- ✗ D. Staffing

Question ID : **5038904394**
Status : **Answered**
Chosen Option : **3**

Q.51 With reference to Principles of Business Management, who among the following enunciated the concept of 'mental revolution'?

Ans
- ✓ A. Fredrick Winslow Taylor
- ✗ B. Abraham Maslow
- ✗ C. Fredrick Herzberg
- ✗ D. Chris Argyris

Question ID : **5038904404**
Status : **Answered**
Chosen Option : **2**

Q.52 Who among the following made a valuable contribution to the general administration/management theory through his concept of bureaucracy?

Ans
- ✗ A. Fred Fiedler
- ✗ B. George Elton Mayo
- ✗ C. Douglas McGregor
- ✓ D. Max Weber

Question ID : **5038904403**
Status : **Answered**
Chosen Option : **4**

Q.53 Who among the following popularised the 'Managerial Roles Approach' to management theory?

Ans
- ✓ A. Henry Mintzberg
- ✗ B. Gary Hamel
- ✗ C. CK Prahalad
- ✗ D. Peter F Drucker

Question ID : **5038904397**
Status : **Answered**
Chosen Option : **1**

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Q.54 Which of the following terms best describes the process followed when a senior manager assigns a portion of the workload in a project to his subordinates?

Ans
- ✗ A. Centralisation
- ✗ B. Authorisation
- ✗ C. Coordination
- ✓ D. Delegation

Question ID : **5038904395**
Status : **Answered**
Chosen Option : **4**

Q.55 The key objective of management is getting _____ results with _____ efforts.

Ans
- ✗ A. maximum; maximum
- ✗ B. minimum; maximum
- ✗ C. minimum; minimum
- ✓ D. maximum; minimum

Question ID : **5038904400**
Status : **Answered**
Chosen Option : **4**

Q.56 Who among the following carried out the famous Hawthorne Experiments conducted in the Hawthorne plant of Western Electric Company in Chicago, USA from 1924 to 1932?

Ans
- ✗ A. J Betty
- ✓ B. George Elton Mayo
- ✗ C. Henri Fayol
- ✗ D. Stephen B Robbins

Question ID : **5038904402**
Status : **Answered**
Chosen Option : **1**

Q.57 Which level of management devotes more time to planning and coordinating functions?

Ans
- ✗ A. Entry level
- ✗ B. Lower level
- ✓ C. Top level
- ✗ D. Middle level

Question ID : **5038904396**
Status : **Answered**
Chosen Option : **3**

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Q.58 _____ is any plan of action intended to achieve a major or overall aim and also beat the competition.

Ans
- ✔ A. Strategy
- ✘ B. Project
- ✘ C. Finance
- ✘ D. Sales

Question ID : **5038904399**
Status : **Answered**
Chosen Option : **1**

Q.59 Shreya is responsible for matching the supply of goods and services with the demand generated. Which of the following functions is she a part of?

Ans
- ✔ A. Operations
- ✘ B. Legal
- ✘ C. Human Resource
- ✘ D. Finance

Question ID : **5038904401**
Status : **Answered**
Chosen Option : **1**

Q.60 Who among the following gave two drastically different styles of management (theories X and Y), in which each style is guided by a manager's perceptions of their employees' motivations?

Ans
- ✘ A. James Bray Griffith
- ✘ B. Ludwig von Bertalanffy
- ✔ C. Douglas McGregor
- ✘ D. John Kenneth Galbraith

Question ID : **5038904405**
Status : **Answered**
Chosen Option : **3**

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