

Narsee Monjee Institute of Management Studies

Notations :

- Options shown in green color and with ✓ icon are correct.
- Options shown in red color and with ✗ icon are incorrect.

Question Paper Name :	NPAT Common 2020 QP4 IBA
Subject Name :	NPAT 2020
Creation Date :	2020-06-30 22:35:24
Duration :	106
Number of Questions :	98
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Display Marks:	Yes
Calculator :	Normal
Magnifying Glass Required? :	No
Ruler Required? :	No
Eraser Required? :	Yes
Scratch Pad Required? :	Yes
Rough Sketch/Notepad Required? :	Yes
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter :	No
Auto Save on Console? :	Yes

Display Notepad Pre Exam

Group Number :	1
Group Id :	9046841511
Group Maximum Duration :	3
Group Minimum Duration :	3
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	1
Is this Group for Examiner? :	No

Display Notepad Pre Exam

Section Id :	9046841576
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	1
Number of Questions to be attempted :	1
Section Marks :	1
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	9046842406
Question Shuffling Allowed :	No

Question Number : 1 Question Id : 90468410386 Question Type : SUBJECTIVE

Correct Marks : 1

Kindly display your Notepad (Rough Sheet) for 3 minutes before the webcam. Also show both pages both sides numbered 1,2,3 and 4. Kindly showcase as it is mandatory.

Proficiency in English Language

Group Number :	2
Group Id :	9046841512
Group Maximum Duration :	0
Group Minimum Duration :	0
Show Attended Group? :	No

Edit Attended Group? :	No
Break time :	0
Group Marks :	40
Is this Group for Examiner? :	No

Proficiency in English Language

Section Id :	9046841577
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	28
Number of Questions to be attempted :	28
Section Marks :	40
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	9046842407
Question Shuffling Allowed :	Yes

Question Number : 2 Question Id : 9046846993 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

In the sentence given below, four words/phrases have been underlined and the underlined words/phrases are given as options. Select the option that contains grammatical error(s).

Culture refers to the group's way of life, including the shared system of social meanings, values and relations.

Options :

90468423228. ✖ Culture refers to
90468423229. ✔ the group's way of life
90468423230. ✖ including the shared system of
90468423231. ✖ social meanings, values and relations.

Question Number : 3 Question Id : 9046846994 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

In the sentence given below, four words/phrases have been underlined and the underlined words/phrases are given as options. Select the option that contains grammatical error(s).

Raghav has been trying stopping smoking for many years now, but he has been unsuccessful.

Options :

90468423232. ✖ Raghav has been
90468423233. ✔ trying stopping smoking
90468423234. ✖ for many years
90468423235. ✖ has been unsuccessful.

Question Number : 4 Question Id : 9046846995 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

In the sentence given below, four words/phrases have been underlined and the underlined words/phrases are given as options. Select the option that contains grammatical error(s).

In 2015, most countries agreed on sustainable development goals, though very few have achieved them.

Options :

90468423236. ✖ most countries agreed on
90468423237. ✖ sustainable development goals
90468423238. ✔ though very few
90468423239. ✖ have achieved them.

Question Number : 5 Question Id : 9046846996 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

In the sentence given below, four words/phrases have been underlined and the underlined words/phrases are given as options. Select the option that contains grammatical error(s).

The early years of civilian space travel has been marked by many triumphs and tragedies.

Options :

90468423240. ✖ The early years

90468423241. ✖ of civilian space travel

90468423242. ✔ has been marked

90468423243. ✖ by many triumphs and tragedies.

Question Number : 6 Question Id : 9046846997 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

In the sentence given below, four words/phrases have been underlined and the underlined words/phrases are given as options. Select the option that contains grammatical error(s).

These days, students pursuing higher studies do not pay any attention to the feedbacks provided by their tutors.

Options :

90468423244. ✖ students pursuing higher studies

90468423245. ✖ do not pay any attention

90468423246. ✔ to the feedbacks

90468423247. ✖ provided by their tutors.

Question Number : 7 Question Id : 9046847014 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Given below are five sentences, labelled A, B, C, D and E. They are NOT in a meaningful order. Select the option that arranges the sentences in the correct order to form a meaningful paragraph.

- A. Scientists from the Nekton Mission will survey wildlife and gauge the effects of climate change in the unexplored area.
- B. It can withstand immense pressures and also carries up to 96 hours' worth of emergency oxygen in case of disaster.
- C. A team of British scientists will soon dive into the darkest depths of the Indian Ocean, the 'Midnight Zone' where life thrives despite scarce light.
- D. Previously, it had descended 36,000 ft when it reached the bottom of the Mariana trench.
- E. A submarine called 'Limiting Factor' will carry two scientists at a time 3,280 ft below the surface into the marine world.

Options :

90468423312. ✖ A, E, D, B, C

90468423313. ✖ C, E, A, B, D

90468423314. ✖ E, A, C, B, D

90468423315. ✔ C, A, E, B, D

Question Number : 8 Question Id : 9046847015 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Given below are five sentences, labelled A, B, C, D and E. They are NOT in a meaningful order. Select the option that arranges the sentences in the correct order to form a meaningful paragraph.

- A. Prior research had shown that African penguins used types of sounds that are similar to syllables in human languages.
- B. Some researchers have described them as similar to a braying ass, leading to the nickname "jackass penguins."
- C. The endangered African penguin is known for its distinctive calls.
- D. It appears that the bird calls conform to the linguistic laws developed to explain how human languages work.
- E. Interested in learning more about the calls these birds make, researchers collected and analysed vocalisations from adult males living in Italian zoos.

Options :

90468423316. ✖ C, A, D, B, E

90468423317. ✖ A, B, D, E, C

90468423318. ✔ C, B, E, A, D

90468423319. ✖ A, D, E, B, C

Question Number : 9 Question Id : 9046847016 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Given below are five sentences, labelled A, B, C, D and E. They are NOT in a meaningful order. Select the option that arranges the sentences in the correct order to form a meaningful paragraph.

- A. This would have given us time to reduce carbon emissions to stop the permafrost thaw, ice melt and global warming.
- B. Both methane and carbon dioxide that could add to global warming have been stored for millennia in frozen permafrost.
- C. Experts have long feared that climate change will unleash long-trapped greenhouse gases.
- D. It had been assumed that the release of these gases would be gradual.
- E. However, projections of carbon release now suggest that certain icy terrains will rapidly disintegrate in as little as days.

Options :

90468423320. ✖ B, D, A, C, E

90468423321. ✖ C, E, B, D, A

90468423322. ✖ B, D, E, A, C

90468423323. ✔ C, B, D, A, E

Question Number : 10 Question Id : 9046847017 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Given below are five sentences, labelled A, B, C, D and E. They are NOT in a meaningful order. Select the option that arranges the sentences in the correct order to form a meaningful paragraph.

- A. Cells called fibroblasts from an animal are used to make sheets of skin.
 B. According to a study, yarn grown from human skin cells could be woven or knitted into 'human textiles' for tissue grafts or organ repair.
 C. Since it is made from animal cells and is not synthetic, scientists believe that it will not be rejected by the immune system of the recipient.
 D. These sheets are cut into ribbons and twisted to form various forms of yarn.
 E. The threads can then be used in surgery to help treat animals and humans.

Options :

90468423324. ✖ A, D, B, C, E

90468423325. ✔ B, A, D, E, C

90468423326. ✖ D, E, C, A, B

90468423327. ✖ A, D, E, B, C

Question Number : 11 Question Id : 9046847803 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Select the option that best fills in the blank and completes the sentence given below.

Though you're angry _____ her now, you'll soon become friends again, Maria told Sheila.

Options :

90468426368. ✔ with

90468426369. ✖ at

90468426370. ✖ on

90468426371. ✖ upon

Question Number : 12 Question Id : 9046847804 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Select the option that best fills in the blank and completes the sentence given below.

The two families have known each other _____ a decade now.

Options :

90468426372. ✔ for

90468426373. ✖ before

90468426374. ✖ since

90468426375. ✖ of

Question Number : 13 Question Id : 9046847805 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Select the option that best fills in the blank and completes the sentence given below.

We _____ study so much in the past.

Options :

90468426376. ✖ didn't used to

90468426377. ✔ didn't

90468426378. ✖ didn't use to

90468426379. ✖ don't

Question Number : 14 Question Id : 9046847806 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Select the option that best fills in the blank and completes the sentence given below.

The baroque style _____ in the early 17th century in Rome.

Options :

90468426380. ✖ has been evolved

90468426381. ✖ was evolved

90468426382. ✖ is evolved

90468426383. ✔ evolved

Question Number : 15 Question Id : 9046847807 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Select the option that best fills in the blank and completes the sentence given below.

_____ our heads are basically similar, differences in size, shape and colour of features produce a variety of appearances.

Options :

90468426384. ✖ In spite of

90468426385. ✓ Although

90468426386. ✗ Despite

90468426387. ✗ As

Question Number : 16 Question Id : 9046847808 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Select the option that best fills in the blank and completes the sentence given below.

_____ the fact that it was difficult, Dhananjay managed to solve the physics paper.

Options :

90468426388. ✗ Although

90468426389. ✗ Even though

90468426390. ✗ Because

90468426391. ✓ Despite

Question Number : 17 Question Id : 9046847809 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Select the option that best fills in the blank and completes the sentence given below.

The boys were bored because they had _____ to do in the art class.

Options :

90468426392. ✗ a little

90468426393. ✓ little

90468426394. ✗ few

90468426395. ✗ some

Question Number : 18 Question Id : 9046847810 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Select the option that best fills in the blank and completes the sentence given below.

_____ of the actors was paid a hefty amount to perform at the awards function.

Options :

90468426396. ✗ All

90468426397. ✗ Some

90468426398. ✗ Every

90468426399. ✓ Each

Question Number : 19 Question Id : 90468410689 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Select the option that best gives the meaning of the word/phrase in bold.

Most succulents are easy to care for and are the best plants for gardeners who are **beginners**.

Options :

90468437200. ✗ naïve

90468437201. ✗ ignorant

90468437202. ✗ initiators

90468437203. ✓ novices

Question Number : 20 Question Id : 90468410690 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Select the option that best gives the meaning of the word/phrase in bold.

Western science is starting to provide some **concrete** clues as to how yoga works to improve health.

Options :

90468437204. ✗ structural

90468437205. ✗ vivid

90468437206. ✓ tangible

90468437207. ✗ natural

Question Number : 21 Question Id : 90468410691 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Select the option that best gives the meaning of the word/phrase in bold.

I wonder how Rajiv manages to **subsist** on such a small allowance.

Options :

90468437208. ✓ cope
 90468437209. ✗ remain
 90468437210. ✗ suffer
 90468437211. ✗ relish

Question Number : 22 Question Id : 90468410692 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Select the option that best gives the meaning of the word/phrase in bold.

There have been many **proposed** alternatives to the conventional petrol- or diesel-powered cars.

Options :

90468437212. ✗ prepared
 90468437213. ✓ projected
 90468437214. ✗ sponsored
 90468437215. ✗ sophisticated

Question Number : 23 Question Id : 90468410693 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Select the option that best completes the given sentence.

A research has _____ the proposition that tiny babies are capable of very fine auditory discrimination.

Options :

90468437216. ✗ provoked
 90468437217. ✗ displayed
 90468437218. ✗ defined
 90468437219. ✓ substantiated

Question Number : 24 Question Id : 90468410694 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Select the option that best completes the given sentence.

Quiet, reflective time is just as important for children as any _____ activity.

Options :

90468437220. ✓ purposeful
 90468437221. ✗ focused
 90468437222. ✗ attentive
 90468437223. ✗ determined

Question Number : 25 Question Id : 90468410695 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Select the option that best completes the given sentence.

Despite layers of _____, each currently beyond the reach of modern computers, young children readily solve the linguistic puzzles facing them, even surpassing their input when it lacks the expected structure.

Options :

90468437224. ✗ connectivity
 90468437225. ✓ complexity
 90468437226. ✗ compositionality
 90468437227. ✗ congeniality

Question Number : 26 Question Id : 90468410696 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Select the option that best completes the given sentence.

Speaking two languages, rather than just one, has _____ practical benefits in a globalised world.

Options :

90468437228. ✓ tangible
 90468437229. ✗ clean
 90468437230. ✗ transparent
 90468437231. ✗ inevitable

Sub-Section Number :

2

Sub-Section Id :

9046842408

Question Shuffling Allowed :

Yes

Question Id : 9046847829 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (27 to 31)

Read the passage and answer the questions that follow.

Under capitalism, the argument goes, it's every man for himself. Through the relentless pursuit of self-interest, everyone benefits, as if an invisible hand were guiding each of us toward the common good. Everyone should accordingly try to get as much as they can, not only for their goods but also for their labour. Whatever the market price is, in turn, what the buyer should pay. Just like the idea that there should be a minimum wage, the idea that there should be a maximum wage seems to undermine the very freedom that the free market is supposed to guarantee.

This view, however, has some dramatic consequences. One is the explosion in economic inequality that almost all liberal capitalist democracies have experienced over the past 30-40 years. The difference between the top and the bottom of the income distribution now lies about where it did in the Gilded Age and the roaring 1920s, up until the Great Depression. Unlike these earlier periods, however, this rise in economic inequality has not been driven by returns on capital assets. This time, one of the most important contributors to the rise has been the payment of extraordinarily high levels of compensation to corporate executives... More troubling still, while the compensation for corporate executives has been almost continually rising during this period, real (inflation-adjusted) wages for almost everybody else have been stagnating.

Many people find this upsetting but, even so, they tend to treat it as something capitalism requires us to tolerate. Others think it is something that capitalism requires us to applaud. But nothing in capitalism actually says that such sky-high levels of compensation are permissible. What capitalism says instead is that people need incentives to be maximally productive. But will someone who makes \$100 million a year really work harder than someone who makes \$10 million? Compensation, like everything else, has what economists call 'diminishing marginal utility'. More of it has less and less of an incentivising effect, until eventually it has no incentivising effect at all – people are already working as hard as they can. At which point capitalism suggests that we should not pay someone even more money, for we are going to get nothing in return.

But wait – aren't CEOs just getting paid the market rate for their labour? Their compensation is calculated according to a formula set when they were hired and, as long as this formula represents the going wage, then this is what they should receive. The market rate for CEO labour, however, is not set in a competitive manner. The formula is set by a special group of the company's directors, called 'the compensation committee'....

Next time someone hires a CEO and another compensation committee conducts a survey, the average will be higher. The market is not bidding up the price; the price is going up simply because everyone always wants to beat the current average. We have what economists call a market failure. Setting a maximum wage would therefore not interfere with market freedom because, in this instance, the market is not working.

Sub questions

Question Number : 27 Question Id : 9046847830 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In the first paragraph the author puts forth the view that:

Options :

- 90468426468. ✓ fixing a maximum wage goes against the tenets of a free market system
- 90468426469. ✗ the common good is best served by market forces guiding the economy
- 90468426470. ✗ people benefit most when they are paid the maximum amount possible for their work
- 90468426471. ✗ individual self-interest determines salaries and wages for each worker

Question Number : 28 Question Id : 9046847831 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The author ascribes the increasing gap in economic levels in recent times to:

Options :

- 90468426472. ✗ diminishing marginal utility in liberal capitalist democracies
- 90468426473. ✓ high compensation levels for top executives
- 90468426474. ✗ incentivising top executives to increase their productivity
- 90468426475. ✗ a decline in the return on capital assets compared to human assets

Question Number : 29 Question Id : 9046847832 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The writer argues that while salaries tend to be capped as people cannot work any harder,:

Options :

- 90468426476. ✗ longer work hours always increases the compensation
- 90468426477. ✓ competition for the top executives bids up salaries
- 90468426478. ✗ marginal utility increases as people tend to work more
- 90468426479. ✗ differences will always emerge among different ability levels

Question Number : 30 Question Id : 9046847833 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

We can infer from the sentence on the Gilded Age and the Great Depression (in the 1920s) that:

Options :

- 90468426480. ✓ wide gaps in income distribution have always existed through the centuries
- 90468426481. ✗ productivity increased in most capitalist liberal economies from the twentieth century
- 90468426482. ✗ incomes had become more equal in the latter part of the twentieth century
- 90468426483. ✗ these were times of greater equality of opportunity than the present day

Question Number : 31 Question Id : 9046847834 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The author concludes there is "a market failure" in the remunerations of top executives (last paragraph) as:

Options :

90468426484. ✖ they are paid high salaries to compensate for the failures of the market
90468426485. ✔ competition trumps the rules of the market in their compensations
90468426486. ✖ a result of the constraints on their compensations
90468426487. ✖ market failures have resulted from the high compensations they receive

Sub-Section Number :

3

Sub-Section Id :

9046842409

Question Shuffling Allowed :

Yes

Question Id : 9046847018 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No**Question Numbers : (32 to 36)**

Read the below passage and answer the questions that follow.

In a world still churning out trendy throw-away fashion pieces at breakneck speed, the idea of upcycled or refashioned apparel can be an anomaly. But it is a continuously growing trend and is one of the most sustainable things people can do in fashion. As upcycling makes use of already existing pieces, it often uses few resources in its creation and actually keeps 'unwanted' items out of the waste stream.

There are more textiles produced in the world today than can be used. And once these clothes have fulfilled their 'useful' lives they are sent to the landfill or are donated to thrift stores. This is not as beneficial as people think as only about 20 to 30 percent of donated clothing is actually re-sold. Massive amounts of donated clothing that are not deemed as 're-sellable' in the U.S. are shipped to developing countries, inundating them with unnecessary goods that stifle any emerging economic development in textiles. While many people may have the idea that they are helping clothe the poor in these countries, access to the Internet and cell phones has made many of these countries more fashion-forward recently, and they may have no interest in our American cast-offs. Since this model relies on a waste economy, what happens when exportation is no longer an option?

This is where upcycling offers an answer. Upcycling is a way of processing an item to make it better than the original. It can be done using either pre-consumer or post-consumer waste or a combination of the two. Pre-consumer waste is produced while items are being manufactured and post-consumer waste results from the finished product reaching the end of its useful life for the consumer. Upcycling stops adding stuff to a world that is already overwhelmed with material things and reuses materials in creative and innovative ways - producing original often one-of-a-kind items from what many consider to be waste. It is a way for companies and designers to be more efficient with leftover materials such as upholstery scraps or vintage textiles and to give new life to worn-out jeans and tattered T-shirts. Whether as everyday apparel or runway exhibition pieces, upcycling can challenge cultural codes - questioning what we consider to be trash versus fashion or beautiful versus ugly. For some it can also be a connection to our heritage - incorporating vintage clothing or using a family heirloom to create an original piece preserving a bit of history.

Sub questions**Question Number : 32 Question Id : 9046847019 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No****Correct Marks : 1 Wrong Marks : 0**

The word 'anomaly' in paragraph 1 means:

Options :

90468423328. ✖ unsuitable
90468423329. ✔ abnormality
90468423330. ✖ difference
90468423331. ✖ absurdity

Question Number : 33 Question Id : 9046847020 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

"Since this model relies on a waste economy..." — The writer calls it a waste economy because it is based on the system of:

Options :

90468423332. ✖ keeping unwanted pieces of clothing out of thrift stores by reusing them
90468423333. ✖ dumping poorer countries with materials that Americans find unnecessary
90468423334. ✖ reselling used items via the internet and other social media platforms
90468423335. ✔ buying and disposing large amounts of goods that are unnecessary

Question Number : 34 Question Id : 9046847021 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Which of the following sentences is NOT TRUE?

Options :

90468423336. ✖ The end product of upcycling is very often better than the original item.
90468423337. ✖ Upcycling contributes to a waste-reduced, greener environment.
90468423338. ✔ Upcycling stifles creativity and innovation in fashion designers.
90468423339. ✖ Upcycling challenges accepted norms of waste, beauty and usefulness.

Question Number : 35 Question Id : 9046847022 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Which of the following sentences best captures the main idea of this text?

Options :

90468423340. ✔ Upcycling promotes reusing materials in new ways, thereby reducing waste.
90468423341. ✖ Upcycling is a new trend that has taken the fashion world by storm.
90468423342. ✖ Upcycling is a trend that is unlikely to survive in the fickle world of fashion.

90468423343. ✖ Upcycling is possible only in the textile industry where wastage is massive.

Question Number : 36 Question Id : 9046847023 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

This extract is most likely from:

Options :

90468423344. ✖ a journal article on recycling and reuse
 90468423345. ✖ a talk on trends in environment protection
 90468423346. ✖ a blog on sustainability and environment
 90468423347. ✔ a magazine article on sustainable fashion

Sub-Section Number :

4

Sub-Section Id :

9046842410

Question Shuffling Allowed :

Yes

Question Id : 90468410713 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (37 to 41)

Read the passage below and answer the questions that follow.

Social media, magazines and shop windows bombard people daily with things to buy, and British consumers are buying more clothes and shoes than ever before. Online shopping means it is easy for customers to buy without thinking. Major brands offer such cheap clothes that they can be treated like disposable items.

In Britain, the average person spends more than £1,000 on new clothes a year, which is around four per cent of their income. That might not sound like much, but that figure hides two far more worrying trends for society and for the environment: a lot of the consumer spending is via credit cards. British people currently owe approximately £670 per adult to credit card companies. Not only are people spending money they don't have, they're using it to buy things they don't need. Approximately 300,000 tons of clothing a year goes into landfill sites. Clothes donated to charities often don't sell and so are either thrown away or are sent abroad, causing economic and environmental problems.

Lately, a different trend is springing up in opposition to consumerism – the 'buy nothing' trend. It originated in Canada in the early 1990s and then moved to the US, where it became a rejection of the overspending and overconsumption of Black Friday and Cyber Monday during Thanksgiving weekend. On Buy Nothing Day people organise various types of protests and cut up their credit cards. Throughout the year, Buy Nothing groups organise the exchange and repair of items they already own.

The trend has now reached influencers on social media who usually share posts of clothing and make-up that they recommend for people to buy. Some YouTube stars now encourage their viewers not to buy anything at all for periods as long as a year. Two friends in Canada spent a year working towards buying only food. For the first three months they learned how to live without buying electrical goods, clothes or things for the house. For the next stage, they gave up services, for example haircuts, eating out at restaurants or buying petrol for their cars. In one year, they'd saved \$55,000.

The changes they made meant two fewer cars on the roads, a reduction in plastic and paper packaging and a positive impact on the environment from all the energy saved. If everyone followed a similar plan, the results would be impressive. But even if you can't manage a full year without going shopping, you can participate in the anti-consumerist movement by refusing to buy things you don't need. Buy Nothing groups send a clear message to companies that people are no longer willing to accept the environmental and human cost of overconsumption.

Sub questions

Question Number : 37 Question Id : 90468410714 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The phrase '*bombard people*' in paragraph 1 means:

Options :

90468437288. ✖ to shower people
 90468437289. ✖ to flood people
 90468437290. ✖ to attack people
 90468437291. ✔ to overwhelm people

Question Number : 38 Question Id : 90468410715 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The author describes clothes as '*disposable items*' because they can be:

Options :

90468437292. ✖ thrown away easily
 90468437293. ✔ worn a few times and discarded
 90468437294. ✖ bought for cheap prices online
 90468437295. ✖ used in landfill sites

Question Number : 39 Question Id : 90468410716 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following sentences is NOT TRUE?

Options :

90468437296. ✖ The British are spending money they don't have on things they don't need.
 90468437297. ✖ Donating to charities abroad has a negative influence on the environment.
 90468437298. ✔ The Buy Nothing movement encourages people to embrace consumerism.
 90468437299. ✖ The Buy Nothing groups have had an impact on social media advertisers.

Question Number : 40 Question Id : 90468410717 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Which of the following sentences best captures the main idea of this text?

Options :

90468437300. ✖ Consumerism is rampant in Britain and people spend money they don't have on the things they don't need.

90468437301. ✖ The Buy Nothing movement, which began in Canada as a reaction to the consumerism, soon spread to America.

90468437302. ✔ The Buy Nothing movement promotes the idea of not buying things over extended periods of time, thus cutting down on consumption.

90468437303. ✖ Companies are slowly beginning to realise that they cannot force people to buy things through aggressive advertising and discount sales.

Question Number : 41 Question Id : 90468410718 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Choose the best option to complete the statement:

According to the author the 'buy nothing' movement is:

Options :

90468437304. ✖ mere anti-consumerism

90468437305. ✖ an artefact of 'social media'

90468437306. ✖ glorifying 'penny-pinching'

90468437307. ✔ rejection of 'overconsumption'

Reasoning and General Intelligence

Group Number :	3
Group Id :	9046841513
Group Maximum Duration :	0
Group Minimum Duration :	0
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	40
Is this Group for Examiner? :	No

Reasoning and General Intelligence

Section Id :	9046841578
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	28
Number of Questions to be attempted :	28
Section Marks :	40
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	9046842411
Question Shuffling Allowed :	Yes

Question Id : 9046847881 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (42 to 46)

The following are the criteria for admitting students to an engineering college:

The student candidate must:

- 1) have passed 12th standard science examination having secured more than 65% in Mathematics and at least 60% in the aggregate.
- 2) be of 20 years age or more as on January 01, 2020
- 3) have obtained at least 65% in the interview and more than 60% in the entrance test.

However, if a student fulfills all the above criteria, EXCEPT:

- 4) at (1) and/or (2) above but has obtained at least 75% in the interview and more than 65% in the entrance test, the case should be referred to the Principal.
- 5) at (2) and/or (3) above but is an SC candidate securing more than 70% in the aggregate as well as in Mathematics in 12th standard science examination, the case should be referred to the Director.

Based on the criteria given above and without assuming any additional information, you have to take a decision for the candidates whose profiles have given in the five questions. Mark your answer by choosing the appropriate option in each case.

Sub questions

Question Number : 42 Question Id : 9046847882 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Priya was born in an SC family in 1998 and passed her 12th standard science examination securing 82% in the aggregate and 66% in Mathematics. She obtained 65% in the interview as well as in the entrance test. What decision would be taken for her?

Options :

90468426668. ✓ She would be admitted
 90468426669. ✗ She would not be admitted
 90468426670. ✗ Her case is to be referred to the Principal
 90468426671. ✗ Her case is to be referred to the Director

Question Number : 43 Question Id : 9046847883 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Aditya, an SC candidate, was born in 1997 and passed the 12th standard examination in science securing 65% in the aggregate as well as in Mathematics. He obtained 65% in the entrance test and 68% in the interview. What decision would be taken for him?

Options :

90468426672. ✗ He would be admitted
 90468426673. ✓ He would not be admitted
 90468426674. ✗ His case is to be referred to the Principal
 90468426675. ✗ His case is to be referred to the Director

Question Number : 44 Question Id : 9046847884 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Ashok is an SC candidate, who secured 65% in the interview and 60% in the entrance test. He passed the 12th standard science examination in 2018 at the age of 19 securing 80% aggregate marks and 70% in Mathematics. What decision would be taken for him?

Options :

90468426676. ✗ He would be admitted
 90468426677. ✓ He would not be admitted
 90468426678. ✗ His case is to be referred to the Principal
 90468426679. ✗ His case is to be referred to the Director

Question Number : 45 Question Id : 9046847885 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Manju Tripathi passed the 12th standard science examination securing 65% in the aggregate as well as in Mathematics at the age of 18 in 2017. She secured 75% in the interview and 68% in the entrance test. What decision would be taken in her case?

Options :

90468426680. ✗ She would be admitted
 90468426681. ✗ She would not be admitted
 90468426682. ✓ Her case is to be referred to the Principal
 90468426683. ✗ Her case is to be referred to the Director

Question Number : 46 Question Id : 9046847886 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Nitesh, who belongs to the SC community, passed the 12th standard science examination in July 2019 at the age of 19 years securing 72% in Mathematics as well as in the aggregate. He obtained 65% in the entrance test and 76% in the interview. What decision would be taken for him?

Options :

90468426684. ✗ He would be admitted
 90468426685. ✗ He would not be admitted
 90468426686. ✗ His case is to be referred to the Principal
 90468426687. ✓ His case is to be referred to the Director

Sub-Section Number :

2

Sub-Section Id :

9046842412

Question Shuffling Allowed :

Yes

Question Number : 47 Question Id : 9046847087 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

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 herbs are trees.
2. Some trees are shrubs.

Conclusions:

- I. Some herbs are shrubs.
- II. Some shrubs are herbs.

Options :

90468423588. ✗ Only conclusion I follows

90468423589. ✖ Only conclusion II follows
 90468423590. ✖ Both conclusions I and II follow
 90468423591. ✔ Neither conclusion I nor II follows

Question Number : 48 Question Id : 9046847090 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

A question is given followed by two arguments. Decide which of the arguments is/are strong with respect to the question.

Question:

Should the Agricultural Research Center advise farmers regarding the choice of crops in their land on the basis of soil quality and crop production?

Arguments:

- I. Yes. This would help farmers reap a good harvest.
 II. No. The farmers, through long experience, know the crops suitable for their land.

Options :

90468423600. ✔ Only argument I is strong
 90468423601. ✖ Only argument II is strong
 90468423602. ✖ Both arguments I and II are strong
 90468423603. ✖ Neither argument I nor II is strong

Question Number : 49 Question Id : 9046847091 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Consider the given statement and decide which of the given assumptions is/are implicit in the statement.

Statement:

The new literacy mission launched by a country will require changes in the mindset of people to be successful.

Assumptions:

- I. The literacy mission hopes to bring changes in the life of people.
 II. The current literacy rate is not up to the mark.

Options :

90468423604. ✖ Only assumption I is implicit
 90468423605. ✖ Only assumption II is implicit
 90468423606. ✔ Both assumptions I and II are implicit
 90468423607. ✖ Neither assumption I nor II is implicit

Question Number : 50 Question Id : 9046847092 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

You are given a question and two statements. Identify which of the statements is/are sufficient to answer the question.

Question:

How is R exactly related to P?

Statements:

- I. R is the brother of Q, who is the mother of P's only son.
 II. R is the son of P's grandfather Q, who has two children.

Options :

90468423608. ✔ Statement I alone is sufficient
 90468423609. ✖ Statement II alone is sufficient
 90468423610. ✖ Either statement I alone or statement II alone is sufficient
 90468423611. ✖ Both the statements I and II together are not sufficient.

Question Number : 51 Question Id : 9046847093 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

You are given a question and two statements. Identify which of the statements is/are sufficient to answer the question.

Question:

Six friends A, B, C, D, E and F are sitting in a row. D is at one of the extreme ends. Who is exactly at the other end?

Statements:

- I. B is sitting to the immediate left of D and F is to the immediate right of C. There are two persons between F and E.
 II. C is to the right of D and there are two persons between C and B. B is to the immediate left of A.

Options :

90468423612. ✖ Statement I alone is sufficient
 90468423613. ✖ Statement II alone is sufficient
 90468423614. ✔ Either statement I alone or statement II alone is sufficient
 90468423615. ✖ Both the statements I and II together are not sufficient.

Question Number : 52 Question Id : 9046847094 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

You are given a question and two statements. Identify which of the statements is/are sufficient/necessary to answer the question.

Question:

Which is the heaviest of the four objects X, Y, Z and M?

Statements:

- I. X and Z together weigh as much as Y and M together. X is twice as heavy as M and half as heavy as Z.
 II. X is twice as heavy as M and half as heavy as Y, while Z is one and a half times as heavy as X.

Options :

90468423616. ✖ Statement I alone is sufficient
 90468423617. ✖ Statement II alone is sufficient
 90468423618. ✔ Either statement I alone or statement II alone is sufficient
 90468423619. ✖ Both the statements I and II together are necessary

Question Number : 53 Question Id : 9046847095 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

You are given a question and two statements. Identify which of the statements is/are sufficient to answer the question.

Question:

How many persons are standing in the line?

Statements:

- I. Ankur is exactly in the middle of Prakash and Hiten, who is 9th from the right and there are 5 persons between Ankur and Hiten.
 II. Vijay is 9th from the left and becomes 15th from the left if he interchanges his position with Sheela, who is 5th from the right.

Options :

90468423620. ✖ Statement I alone is sufficient
 90468423621. ✔ Statement II alone is sufficient
 90468423622. ✖ Either statement I alone or statement II alone is sufficient
 90468423623. ✖ Both the statements I and II together are not sufficient.

Question Number : 54 Question Id : 9046847096 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

You are given a question and two statements. Identify which of the statements is/are sufficient to answer the question.

Question:

If the breadth of a rectangle is 10 cm, then what is its length?

Statements:

- I. If the length of the rectangle is increased by 25% and its breadth by 20%, its area increases by 70 cm².
 II. The length remaining the same, if its breadth is increased by 20%, the ratio of the new area to the original area becomes 6 : 5.

Options :

90468423624. ✔ Statement I alone is sufficient
 90468423625. ✖ Statement II alone is sufficient
 90468423626. ✖ Either statement I alone or statement II alone is sufficient
 90468423627. ✖ Both the statements I and II together are not sufficient.

Question Number : 55 Question Id : 9046847887 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

A team is to be formed from among four girls A, B, C and D and four boys P, Q, R and S with the following conditions.

- i. B and S have to be together.
- ii. Q and C cannot go together.
- iii. A cannot be teamed with R.
- iv. P has to go with D.

Which of the following teams can be formed?

Options :

90468426688. ✖ ASPC
 90468426689. ✖ RASB
 90468426690. ✔ BASQ
 90468426691. ✖ PCDQ

Question Number : 56 Question Id : 9046847888 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

A team of four with at least two females is to be selected from among five male players P, Q, R, S and T and three female players K, L and M under the following conditions.

- i. R cannot be put with K.
- ii. P and M have to be together.
- iii. K will always be with T.
- iv. S cannot go with N.

Which of the following teams can be formed?

Options :

- 90468426692. ✖ PQTM
- 90468426693. ✖ KMLR
- 90468426694. ✖ PSMN
- 90468426695. ✔ QKLT

Question Number : 57 Question Id : 9046847906 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Study the given symbols.

- A @ B means A is not smaller than B.
- A # B means A is not greater than B.
- A & B means A is neither smaller than nor equal to B.
- A % B means A is neither greater than nor equal to B.
- A \$ B means A is neither smaller than nor greater than B.

Based on the symbols, read the given statements and conclusions carefully and decide which of the conclusions are true.

Statements:

- A) S & W
- B) T \$ Z
- C) W @ T

Conclusions:

- I. Z # W
- II. T % S
- III. S & Z

Options :

- 90468426760. ✖ Both conclusions I and II are true
- 90468426761. ✖ Both conclusions II and III are true
- 90468426762. ✖ Both conclusions I and III are true
- 90468426763. ✔ All the conclusions I, II and III are true

Question Number : 58 Question Id : 9046847907 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Study the given symbols.

- A @ B means A is not smaller than B.
- A # B means A is not greater than B.
- A & B means A is neither smaller than nor equal to B.
- A % B means A is neither greater than nor equal to B.
- A \$ B means A is neither smaller than nor greater than B.

Based on the symbols, read the given statements and conclusions carefully and decide which of the conclusions is/are true.

Statements:

- A) K & F
- B) B @ G
- C) B \$ K

Conclusions:

- I. B & F
- II. G # K
- III. G % F

Options :

- 90468426764. ✔ Both conclusions I and II are true
- 90468426765. ✖ Both conclusions II and III are true
- 90468426766. ✖ Both conclusions I and III are true
- 90468426767. ✖ All the conclusions I, II and III are true

Question Number : 59 Question Id : 90468410727 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Six friends A, B, C, D, E and F are sitting in straight line. A is third to the right of F. D is to the immediate left of F and is at one end of the row. B is sitting between A and C. There is one person between B and E. Who is sitting at the other end?

Options :

- 90468437336. ✖ A
- 90468437337. ✔ E
- 90468437338. ✖ B

90468437339. ✖ F

Question Number : 60 Question Id : 90468410728 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Among five objects, S is twice as heavy as Q. P is one and a half times as heavy as R, which is twice as heavy as T. T is half as heavy as Q. Which is the heaviest of all the five objects?

Options :

90468437340. ✖ R

90468437341. ✔ S

90468437342. ✖ Q

90468437343. ✖ P

Question Number : 61 Question Id : 90468410729 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

'A + B' means 'A is mother of B'

'A - B' means 'A is father of B'

'A × B' means 'A is sister of B'

'A ÷ B' means 'A is Brother of B'

If $S \times M + Z - Y \times T + H \div R$, then how is M related to T?**Options :**

90468437344. ✖ Mother

90468437345. ✖ Maternal grandmother

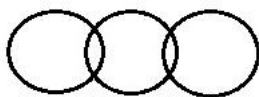
90468437346. ✔ Paternal grandmother

90468437347. ✖ Paternal grandfather

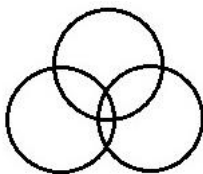
Question Number : 62 Question Id : 90468410740 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Select the Venn diagram that best represents the relationship between the following classes.

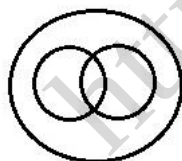
Football fans, Athletes, Students

Options :

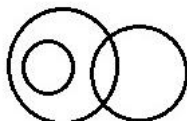
90468437388. ✖



90468437389. ✔



90468437390. ✖



90468437391. ✖

Sub-Section Number :

3

Sub-Section Id :

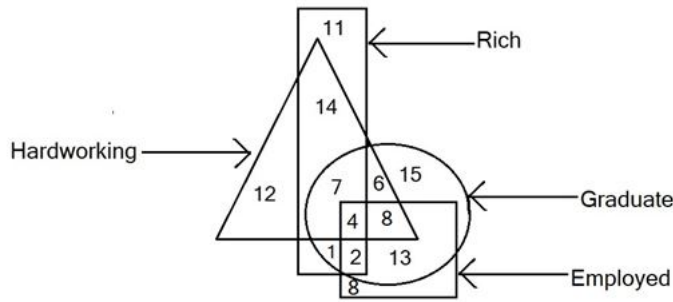
9046842413

Question Shuffling Allowed :

Yes

Question Id : 90468410741 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No**Question Numbers : (63 to 64)**

Study the given figure and answer the question that follows:



In the figure, the triangle stands for 'hardworking'; the circle stands for 'graduate'; the rectangle stands for 'rich' and the square stands for 'employed'. The numbers in different segments show the number of persons.

Sub questions

Question Number : 63 Question Id : 90468410742 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How many employed graduates are hardworking but NOT rich?

Options :

- 90468437392. ✖ 3
- 90468437393. ✖ 4
- 90468437394. ✖ 6
- 90468437395. ✔ 8

Question Number : 64 Question Id : 90468410743 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

How many hardworking graduates are either rich or employed but NOT both?

Options :

- 90468437396. ✔ 15
- 90468437397. ✖ 14
- 90468437398. ✖ 13
- 90468437399. ✖ 11

Sub-Section Number :

4

Sub-Section Id :

9046842414

Question Shuffling Allowed :

Yes

Question Number : 65 Question Id : 9046847088 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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. Some hats are caps.
2. All caps are headgears.

Conclusions:

- I. No hat is a headgear.
- II. Some headgears are hats.
- III. All headgears are caps.

Options :

- 90468423592. ✖ Only conclusion I follows
- 90468423593. ✔ Only conclusion II follows
- 90468423594. ✖ All conclusions I, II and III follow
- 90468423595. ✖ None of the conclusions follow

Question Number : 66 Question Id : 9046847089 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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 instruments are equipment.
2. Some instruments are machines.
3. Some machines are motors.

Conclusions:

- I. Some motors are instruments.
- II. Some machines are equipment.
- III. No motor is an instrument.

Options :

90468423596. ✖ Only conclusion II follows

90468423597. ✖ Both conclusions II and III follow

90468423598. ✔ Only conclusion II and either conclusion I or III follow

90468423599. ✖ None of the conclusions follow

Question Number : 67 Question Id : 9046847908 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the signs '×' and '+' are interchanged in each of the given equations, then which one equation would be correct?

Options :

90468426768. ✖ $8 \times 2 - 3 + 2 = 3 \times 2$

90468426769. ✖ $8 - 2 + 6 \times 8 = 8 - 6$

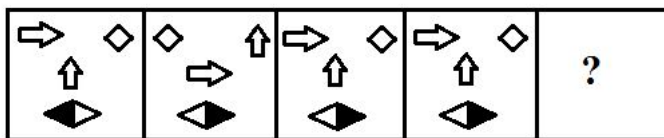
90468426770. ✔ $6 + 4 - 8 \times 4 = 5 + 4$

90468426771. ✖ $4 \times 6 \div 3 + 2 = 4 \times 2$

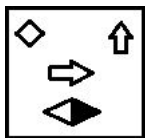
Question Number : 68 Question Id : 90468410747 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

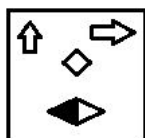
Select the figure that will come next in the following figure series.



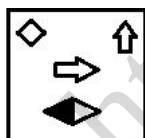
Options :



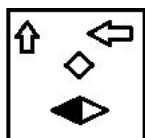
90468437412. ✖



90468437413. ✖



90468437414. ✔

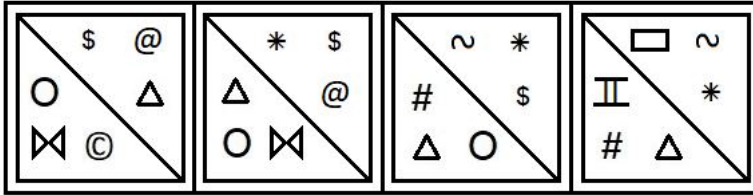


90468437415. ✖

Question Number : 69 Question Id : 90468410748 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Select the figure that will come next in the following series.



Options :



90468437416. ✖



90468437417. ✔



90468437418. ✖

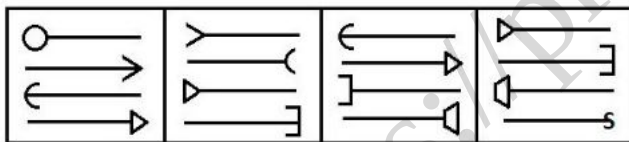


90468437419. ✖

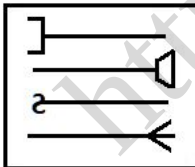
Question Number : 70 Question Id : 90468410749 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

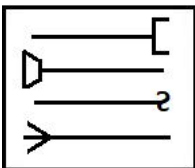
Find the figure that will come next in the following figure series.



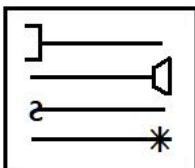
Options :



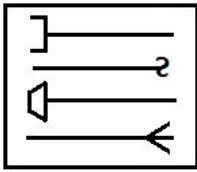
90468437420. ✔



90468437421. ✖



90468437422. ✖

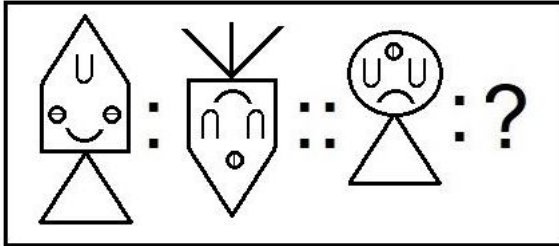


90468437423. ✖

Question Number : 71 Question Id : 90468410750 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

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



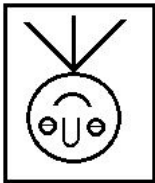
Options :



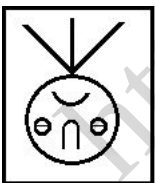
90468437424. ✖



90468437425. ✖



90468437426. ✖



90468437427. ✔

Sub-Section Number :

5

Sub-Section Id :

9046842415

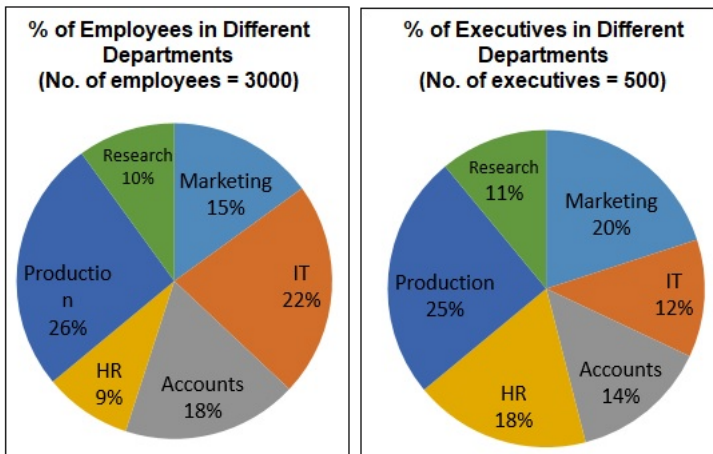
Question Shuffling Allowed :

Yes

Question Id : 9046847913 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No

Question Numbers : (72 to 75)

The given pie charts show the percentage distribution of the total employees (executives and non-executives) and that of the executives in different departments of a company. Study the charts and answer the questions that follow.



Sub questions

Question Number : 72 Question Id : 9046847914 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

What percent (approximately) of the employees in the Marketing and HR departments are non-executives?

Options :

- 90468426788. ✖ 63.9%
- 90468426789. ✔ 73.6%
- 90468426790. ✖ 73.9%
- 90468426791. ✖ 75.2%

Question Number : 73 Question Id : 9046847915 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If the ratio of the male to female non-executives in the HR department is 4 : 5, then how many female HR non-executives are working in the company?

Options :

- 90468426792. ✖ 80
- 90468426793. ✖ 90
- 90468426794. ✔ 100
- 90468426795. ✖ 120

Question Number : 74 Question Id : 9046847916 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following departments has the highest number of non-executives?

Options :

- 90468426796. ✔ Production
- 90468426797. ✖ IT
- 90468426798. ✖ Accounts
- 90468426799. ✖ Marketing

Question Number : 75 Question Id : 9046847917 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Among the females in the Production department, the ratio of executives to non-executives is 2 : 7, and among the males in the same department, the said ratio is 3 : 25. How many male non-executives are working in the Production department?

Options :

- 90468426800. ✖ 250
- 90468426801. ✖ 280
- 90468426802. ✖ 330
- 90468426803. ✔ 375

Sub-Section Number :

6

Sub-Section Id :

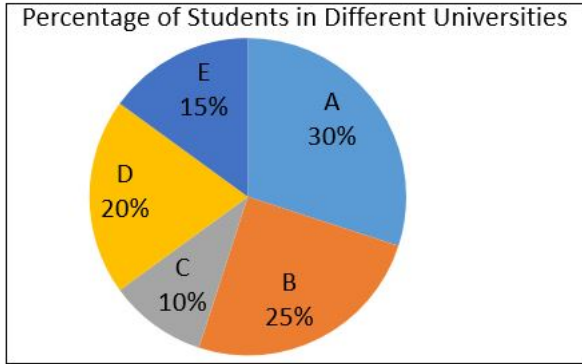
9046842416

Question Shuffling Allowed :

Yes

Question Id : 9046847108 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No Question Numbers : (76 to 79)

The given pie diagram given shows the percentage of students in five different universities in an academic year. The table shows the ratio of male to female students and the percentage of foreign students in each university. Study the information and answer the questions that follow.



University	Ratio of male to female students	% of foreign students
A	3 : 2	10%
B	3 : 7	12%
C	2 : 3	15%
D	3 : 5	10%
E	5 : 7	5%

Sub questions

Question Number : 76 Question Id : 9046847109 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

If the total number of students is 12,000, then what is the approximate percentage of foreign students in all the universities taken together?

Options :

90468423668. ✖ 7.50%
90468423669. ✖ 9.75%
90468423670. ✔ 10.25%
90468423671. ✖ 12.50%

Question Number : 77 Question Id : 9046847110 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

If there are 132 foreign students in University B, then the difference between the total number of male and female students in University D is:

Options :

90468423672. ✔ 220
90468423673. ✖ 330
90468423674. ✖ 110
90468423675. ✖ 280

Question Number : 78 Question Id : 9046847111 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

If the total number of students in all the universities is 8,000, then what is the approximate percentage of foreign students in University C to the total number of male students in B and D?

Options :

90468423676. ✖ 8%
90468423677. ✔ 10%
90468423678. ✖ 12%
90468423679. ✖ 15%

Question Number : 79 Question Id : 9046847112 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

If the difference between the number of male and female students in University E is 80, then the total number of foreign students in Universities A and D is:

Options :

90468423680. ✖ 100
90468423681. ✖ 120
90468423682. ✔ 160
90468423683. ✖ 320

Sub-Section Number :

7

Sub-Section Id :

9046842417

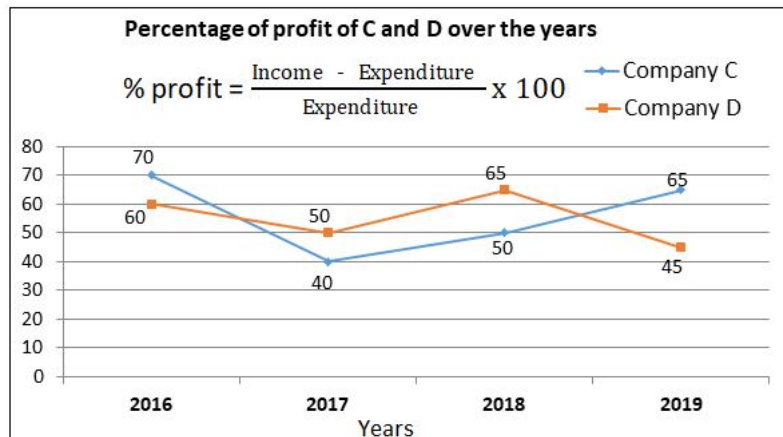
Question Shuffling Allowed :

Yes

Question Id : 90468410761 Question Type : COMPREHENSION Sub Question Shuffling Allowed : Yes Group Comprehension Questions : No
Question Numbers : (80 to 81)

The following graph shows the percentage of profit of two Companies C and D over the period of four years.

Study the graph and answer the questions that follow.



Sub questions

Question Number : 80 Question Id : 90468410762 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the incomes of both the Companies in the year 2018 are the same, then what is the ratio of their expenditures?

Options :

90468437460. ✖ 7 : 6

90468437461. ✔ 11 : 10

90468437462. ✖ 10 : 11

90468437463. ✖ 13 : 10

Question Number : 81 Question Id : 90468410763 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If the amount of expenditure remains the same over the years for Company D, in which of the following years, the amount of profit (income – expenditure) will be minimum for Company D?

Options :

90468437464. ✖ 2016

90468437465. ✖ 2017

90468437466. ✖ 2018

90468437467. ✔ 2019

Quantitative and Numerical Ability

Group Number :	4
Group Id :	9046841514
Group Maximum Duration :	0
Group Minimum Duration :	0
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	40
Is this Group for Examiner? :	No

Quantitative and Numerical Ability

Section Id :	9046841579
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	40
Number of Questions to be attempted :	40
Section Marks :	40
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	9046842418

Question Number : 82 Question Id : 9046847036 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Let $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$, $A = \{1, 2, 3, 4\}$, $B = \{2, 4, 6, 8\}$ and $C = \{3, 4, 5, 6\}$. The number of elements in $(A \cap C)' - (B - C)'$, where $(A \cap C)'$ and $(B - C)'$ are the complements of $(A \cap C)$ and $(B - C)$, respectively is:

Options :

90468423388. ✖ 0

90468423389. ✖ 1

90468423390. ✔ 2

90468423391. ✖ 4

Question Number : 83 Question Id : 9046847037 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Let U be the universal set. A , B and C are the sets such that C is a subset of A and $B \cap C = \emptyset$. If $n(U) = 105$, $n(A) = 58$, $n(B) = 50$, $n(A \cap B) = 20$ and $n(A \cap C) = 32$, then $n(A \cup B) - n(B' \cap C') =$

Options :

90468423392. ✖ 58

90468423393. ✖ 59

90468423394. ✖ 60

90468423395. ✔ 65

Question Number : 84 Question Id : 9046847038 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Let $A = \{1, 2, 5, 6\}$, $B = \{1, 2, 3\}$ and $C = (A \times B) \cap (B \times A)$. Which of the following is INCORRECT?

Options :

90468423396. ✖ $(1, 2) \in C$

90468423397. ✖ $(2, 1) \in C$

90468423398. ✖ $(2, 2) \in C$

90468423399. ✔ $(2, 3) \in C$

Question Number : 85 Question Id : 9046847039 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If $f(2x) = \frac{2}{2+x}$ for all $x > 0$, and $5 f(x) = 8$, then what is the value of x ?

Options :

90468423400. ✔ $-\frac{3}{2}$

90468423401. ✖ $-\frac{5}{2}$

90468423402. ✖ $\frac{3}{2}$

90468423403. ✖ $\frac{5}{2}$

Question Number : 86 Question Id : 9046847040 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Let $f(x) = \frac{3x-5}{2x+1}$. If $f^{-1}(x) = \frac{x+a}{bx+c}$, then what is the value of $(a - b + c)$?

Options :

90468423404. ✖ 3

90468423405. ✖ 4

90468423406. ✖ 7

90468423407. ✔ 10

Question Number : 87 Question Id : 9046847041 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Given $f(x) = \frac{4x+1}{4}$ and $g(x) = \sqrt{x^3}$, then $(g \circ f^{-1})\left(\frac{3}{8}\right) =$

Options :

90468423408. ✖ $\frac{\sqrt{3}}{8}$

90468423409. ✖ $\frac{\sqrt{3}}{16}$

90468423410. ✖ $\frac{\sqrt{2}}{16}$

90468423411. ✔ $\frac{\sqrt{2}}{32}$

Question Number : 88 Question Id : 9046847042 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

In a class of 100 students, 55 students passed in Mathematics and 65 passed in English. Five students failed in both the subjects. Let n be the number of students who passed in exactly one of the two subjects and m be the number of students who failed in at least one subject, then what is the value of (m – n)?

Options :

90468423412. ✖ 3

90468423413. ✖ 4

90468423414. ✔ 5

90468423415. ✖ 7

Question Number : 89 Question Id : 9046847071 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

X and Y are the two points that are 135 m apart on the ground on either side of a pole and in the same line. The angles of elevation of a bird sitting on the top of the pole from X and Y are 30° and 60° respectively. The distance of Y from the foot of the pole (in m) is:

Options :

90468423528. ✖ 50.63

90468423529. ✔ 33.75

90468423530. ✖ 67.5

90468423531. ✖ 101.25

Question Number : 90 Question Id : 9046847072 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The value of $\frac{(1 + \cot \theta - \operatorname{cosec} \theta)(1 + \tan \theta + \sec \theta)}{\tan^2 \theta + \cot^2 \theta - \sec^2 \theta \cdot \operatorname{cosec}^2 \theta}$ is:

Options :

90468423532. ✖ -2

90468423533. ✔ -1

90468423534. ✖ 1

90468423535. ✖ 2

Question Number : 91 Question Id : 9046847073 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

If $3\sin^2 x + 10\cos x - 6 = 0$, $0^\circ < \theta < 90^\circ$, then the value of $\sec x + \operatorname{cosec} x + \cot x$ is:

Options :

90468423536. ✖ $4 - \sqrt{3}$

90468423537. ✖ $2 + \sqrt{3}$

90468423538. ✖ $3 - \sqrt{2}$

90468423539. ✔ $3 + \sqrt{2}$

Question Number : 92 Question Id : 9046847074 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

If $\sec \theta = a + \frac{1}{4a}$, $0^\circ < \theta < 90^\circ$, then $\operatorname{cosec} \theta + \cot \theta =$

Options :

90468423540. ✖ $\frac{2a}{2a+1}$

90468423541. ✖ $\frac{4a}{2a-1}$

90468423542. ✔ $\frac{2a+1}{2a-1}$

90468423543. ✖ $\frac{4a-1}{2a+1}$

Question Number : 93 Question Id : 9046847075 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

$$\frac{\sin \theta (1 + \tan \theta) + \cos \theta (1 + \cot \theta)}{(\operatorname{cosec} \theta - \sin \theta)(\sec \theta - \cos \theta)(\tan \theta + \cot \theta)} =$$

Options :

90468423544. ✖ $\sin \theta \cos \theta$

90468423545. ✖ $\operatorname{cosec} \theta \sec \theta$

90468423546. ✔ $\operatorname{cosec} \theta + \sec \theta$

90468423547. ✖ $\sin \theta + \cos \theta$

Question Number : 94 Question Id : 9046847848 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

The value of $(\frac{5}{13} \text{ of } 1\frac{14}{25} + 2\frac{3}{10} - \frac{7}{18} \text{ of } 1\frac{1}{35}) \times (3\frac{1}{5} \div 4\frac{1}{2} \text{ of } 5\frac{1}{3})$ lies between:

Options :

90468426536. ✖ 0.1 and 0.2

90468426537. ✖ 0.2 and 0.3

90468426538. ✔ 0.3 and 0.4

90468426539. ✖ 0.4 and 0.5

Question Number : 95 Question Id : 9046847849 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

The income of A is $\frac{3}{4}$ of B's income, and the expenditure of A is $\frac{4}{5}$ of B's expenditure. If A's income is $\frac{9}{10}$ of B's expenditure, then the ratio of savings of A and B is:

Options :

90468426540. ✔ 1 : 2

90468426541. ✖ 3 : 5

90468426542. ✖ 1 : 3

90468426543. ✖ 2 : 3

Question Number : 96 Question Id : 9046847850 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

If $\frac{46}{159} = \frac{1}{x + \frac{1}{y + \frac{1}{z + \frac{1}{4}}}}$, where x, y and z are positive integers, then the value of $(2x+3y-4z)$ is:

Options :

90468426544. ✔ -8

90468426545. ✖ -6

90468426546. ✖ 6

90468426547. ✖ 8

Question Number : 97 Question Id : 9046847851 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The value of $\frac{0.\overline{09} \times 0.\overline{7}}{0.\overline{63} \times 3.\overline{6}} + 0.\overline{27} (0.8\overline{3} \div 0.1\overline{6})$ is:

Options :

90468426548. ✖ $\frac{15}{11}$ 90468426549. ✔ $\frac{46}{33}$ 90468426550. ✖ $\frac{16}{33}$ 90468426551. ✖ $\frac{4}{3}$

Question Number : 98 Question Id : 9046847852 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the value of $\frac{4 \times (2.83)^2 - 3 \times 2.96 \times 2.22}{(2 - 0.78) \times (5.05)} = ?$

Options :

90468426552. ✖ $\frac{1}{2}$

90468426553. ✖ 1

90468426554. ✖ $\frac{3}{2}$

90468426555. ✔ 2

Question Number : 99 Question Id : 9046847853 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The sum of the first 10 terms of the series $\frac{7}{3} + \frac{7}{15} + \frac{1}{5} + \frac{1}{9} + \dots$ is $\frac{a}{b}$, where HCF(a,b) = 1.

What is the value of |a-b|?

Options :

90468426556. ✖ 5

90468426557. ✖ 6

90468426558. ✔ 7

90468426559. ✖ 9

Question Number : 100 Question Id : 9046847854 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Let $x = \sqrt{-4\sqrt{2}} + \sqrt{17(-\sqrt{2})^2 + 2}$. If $\frac{1}{x} = a + b\sqrt{2}$, then what is the value of (a - b) ?

Options :

90468426560. ✖ 0

90468426561. ✔ $\frac{1}{2}$

90468426562. ✖ 1

90468426563. ✖ $\frac{3}{2}$ **Question Number : 101 Question Id : 9046847855 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No****Correct Marks : 1 Wrong Marks : 0**

In a year, out of 160 games to be played, a cricket team wants to win 80% of them. Out of 90 games already played, the success rate is $66\frac{2}{3}\%$. What should be the success rate for the remaining games in order to reach the target?

Options :90468426564. ✖ $84\frac{5}{7}\%$ 90468426565. ✖ $85\frac{1}{3}\%$ 90468426566. ✖ $93\frac{2}{3}\%$ 90468426567. ✔ $97\frac{1}{7}\%$ **Question Number : 102 Question Id : 9046847856 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No****Correct Marks : 1 Wrong Marks : 0**

A shopkeeper has two varieties of rice A and B. By selling A at ₹75 per kg, he loses 20%; and by selling B at ₹90 per kg, he gains 25%. If he mixes A and B in the ratio 4 : 5 and sells the mixture at ₹110.25 per kg, then his profit percentage is:

Options :

90468426568. ✖ 30%

90468426569. ✖ 32%

90468426570. ✔ 35%

90468426571. ✖ 40%

Question Number : 103 Question Id : 9046847857 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Shikha sells an article for ₹253, after giving 12% discount on its marked price. Had she not given any discount, she would have earned a profit of 25% on the cost price. What is the cost price of the article?

Options :

90468426572. ✖ ₹220

90468426573. ✖ ₹225

90468426574. ✔ ₹230

90468426575. ✖ ₹235

Question Number : 104 Question Id : 9046847858 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

The ratio of the number of boys and the girls in a group is 5 : 8. If 4 more girls join the group and 5 boys leave the group, then the ratio of the number of boys to the number of girls becomes 1 : 2. Originally, what was the difference between the number of boys and girls in the group?

Options :

90468426576. ✔ 21

90468426577. ✖ 24

90468426578. ✖ 27

90468426579. ✖ 30

Question Number : 105 Question Id : 9046847859 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

A person borrows a sum of ₹10,920 at 10% p.a. compound interest and promises to pay it back in two equal annual instalments. The interest to be paid by him under this instalment scheme is:

Options :

90468426580. ✖ ₹1,646

90468426581. ✔ ₹1,664

90468426582. ✖ ₹1,676

90468426583. ✖ ₹1,684

Question Number : 106 Question Id : 9046847860 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Two persons A and B start moving at the same time towards each other from points x and y, respectively. After crossing each other, A and B now take $4\frac{1}{6}$ hours and 6 hours, respectively, to reach their respective destinations. If the speed of A is 72 km/h, then the speed (in km/h) of B is:

Options :

90468426584. ✖ 54

90468426585. ✖ 56

90468426586. ✔ 60

90468426587. ✖ 64

Question Number : 107 Question Id : 9046847861 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Water is flowing at the rate of 4 km/h through a pipe of radius 7 cm into a rectangular tank with length and breadth as 25 m and 22 m, respectively. The time (in hours) in which the level of water in the tank will rise by 28 cm is

(take $\pi = \frac{22}{7}$):

Options :90468426588. ✖ $2\frac{1}{3}$ 90468426589. ✔ $2\frac{1}{2}$ 90468426590. ✖ $3\frac{1}{2}$ 90468426591. ✖ $3\frac{1}{3}$ **Question Number : 108 Question Id : 90468410764 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No****Correct Marks : 1 Wrong Marks : 0**

Let $A = \{2,3,4,8,10\}$, $B = \{3,4,5,10,12\}$ and $C = \{4,5,6,12,14\}$ be the three sets. If $D = [(A \cup B) \cap (A \cup C)] - (B \cap C)$, then the number of elements in D is:

Options :

90468437468. ✖ 3

90468437469. ✔ 4

90468437470. ✖ 5

90468437471. ✖ 6

Question Number : 109 Question Id : 90468410765 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

The number of elements in sets X and Y are p and q respectively. The total number of subsets of X is 112 more than that of Y. What is the value of $(2p - 3q)$?

Options :

- 90468437472. ✓ 2
- 90468437473. ✗ 4
- 90468437474. ✗ 6
- 90468437475. ✗ 8

Question Number : 110 Question Id : 90468410766 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

Let $A = \{2, 4, 6, 9\}$ and $B = \{4, 6, 18, 27, 81\}$ be two sets. If $C = \{(x, y) \mid x \in A, y \in B \text{ such that } x \text{ is a factor of } y \text{ and } x < y\}$, then $n(C)$ is:

Options :

- 90468437476. ✗ 5
- 90468437477. ✗ 6
- 90468437478. ✓ 7
- 90468437479. ✗ 8

Question Number : 111 Question Id : 90468410767 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

If function $f: \mathbb{R} \rightarrow \mathbb{R}$ is defined by $f(x) = 2x - 3$ and $g: \mathbb{R} \rightarrow \mathbb{R}$ is defined by $g(x) = x^3 + 5$, then the value of $(f \circ g)^{-1}(-9)$ is:

Options :

- 90468437480. ✗ -1
- 90468437481. ✓ -2
- 90468437482. ✗ 2
- 90468437483. ✗ 1

Question Number : 112 Question Id : 90468410768 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

If $f\left(1 - \frac{1}{x}\right) = \frac{5x+1}{x}$, $x \neq 0$, then $f(x) = k - x$, where $k = ?$

Options :

- 90468437484. ✓ 6
- 90468437485. ✗ 5
- 90468437486. ✗ 4
- 90468437487. ✗ 3

Question Number : 113 Question Id : 90468410769 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

If $f(x) = 4x^3 - 8$, then what is the value of $f^{-1}(-8) + f^{-1}(24)$?

Options :

- 90468437488. ✗ -1
- 90468437489. ✗ 1
- 90468437490. ✓ 2
- 90468437491. ✗ 3

Question Number : 114 Question Id : 90468410770 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

There are 980 students in a school, out of which 50% play cricket, 30% play basketball and 40% play football. If 60 students play cricket and basketball, 48 students play basketball and football, 180 students play cricket and football, and 35 students play all the three games, then how many students play none of the games?

Options :

- 90468437492. ✗ 73
- 90468437493. ✗ 67
- 90468437494. ✗ 63
- 90468437495. ✓ 57

Question Number : 115 Question Id : 90468410792 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No
Correct Marks : 1 Wrong Marks : 0

When 3 is subtracted from each of the given 'n' numbers, then the sum of the numbers so obtained is 84. When 8 is added to each of the given 'n' numbers, then the sum of the resulting numbers is 216. The mean of the given 'n' numbers is:

Options :

- 90468437580. ✗ 9.5

90468437581. ✓ 10

90468437582. ✗ 12

90468437583. ✗ 12.5

Question Number : 116 Question Id : 90468410793 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

The mean of five observations is 4.4 and their variance is 8.24. If three of the five observations are 1, 4 and 9, then the product of other two observations is:

Options :

90468437584. ✗ 8

90468437585. ✗ 10

90468437586. ✓ 12

90468437587. ✗ 15

Question Number : 117 Question Id : 90468410794 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

The mean deviation about the mean of the dataset 22, 24, 30, 27, 29, 31, 25, 28, 41, 43, 30 is:

Options :

90468437588. ✓ 4.5

90468437589. ✗ 4.9

90468437590. ✗ 5.3

90468437591. ✗ 5.5

Question Number : 118 Question Id : 90468410795 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Consider the following distribution:

Age (in years)	5 – 7	7 – 9	9 – 11	11 – 13	13 – 15
Frequency	16	x	10	6	5

The mean of the distribution is 8.84 years. The value of x is:

Options :

90468437592. ✗ 8

90468437593. ✓ 13

90468437594. ✗ 18

90468437595. ✗ 23

Question Number : 119 Question Id : 90468410796 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**

Let x be the median of the data:

20, 50, 60, 53, 77, 88, 90, 40, 30, 70, 25, 45, 64, 72, 8, 15, 85, 60, 55, 28.

If y is the median of the same dataset when 25 and 28 are replaced by 52 and 82 respectively, then what is the value of $|x - y|$?**Options :**

90468437596. ✗ 2.5

90468437597. ✗ 3

90468437598. ✓ 3.5

90468437599. ✗ 4

Question Number : 120 Question Id : 90468410797 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No**Correct Marks : 1 Wrong Marks : 0**An integer is selected at random from the set $\{100, 101, 102, \dots, 999\}$. What is the probability that the sum of the digits of the selected number is the same as the product of its digits?**Options :**90468437600. ✗ $\frac{1}{75}$ 90468437601. ✓ $\frac{1}{150}$

$$90468437602. \times \frac{1}{180}$$

$$90468437603. \times \frac{1}{60}$$

Question Number : 121 Question Id : 90468410798 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

What is the standard deviation of the given data set:

25, 50, 45, 30, 70, 42, 36, 48, 34, 60 (correct to two decimal places).

Options :

90468437604. ✖ 13.33

90468437605. ✖ 13.31

90468437606. ✖ 13.14

90468437607. ✔ 13.08

Display Notepad Post Exam

Group Number :	5
Group Id :	9046841515
Group Maximum Duration :	3
Group Minimum Duration :	3
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	1
Is this Group for Examiner? :	No

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Section Id :	9046841580
Section Number :	1
Section type :	Offline
Mandatory or Optional :	Mandatory
Number of Questions :	1
Number of Questions to be attempted :	1
Section Marks :	1
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	9046842419
Question Shuffling Allowed :	No

Question Number : 122 Question Id : 90468410387 Question Type : SUBJECTIVE

Correct Marks : 1

Kindly display your Notepad (Rough Sheet) for 3 minutes before the webcam. Also show both pages both sides numbered 1,2,3 and 4. Kindly showcase as it is mandatory.