



## Mock CAT – 13 2018

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br/phFYA=&qsetName=Mock CAT – 13 2018)

VARC

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QA

## Sec 1

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Directions for questions (1 to 6): The passage below is accompanied by a set of six questions. Choose the best answer to each question.

Most people who bother with the matter at all would admit that the English language is in a bad way, but it is generally assumed that we cannot by conscious action do anything about it. Our civilization is decadent and our language — so the argument runs— must inevitably share in the general collapse. It follows that any struggle against the abuse of language is a sentimental archaism, like preferring candles to electric light or hansom cabs to aeroplanes. Underneath this lies the half-conscious belief that language is a natural growth and not an instrument which we shape for our own purposes.

Now, it is clear that the decline of a language must ultimately have political and economic causes: it is not due simply to the bad influence of this or that individual writer. But an effect can become a cause, reinforcing the original cause and producing the same effect in an intensified form, and so on indefinitely. A man may take to drink because he feels himself to be a failure, and then fail all the more completely because he drinks. It is rather the same thing that is happening to the English language. It becomes ugly and inaccurate because our thoughts are foolish, but the slovenliness of our language makes it easier for us to have foolish thoughts. The point is that the process is reversible. Modern English, especially written English, is full of bad habits which spread by imitation and which can be avoided if one is willing to take the necessary trouble. If one gets rid of these habits one can think more clearly, and to think clearly is a necessary first step toward political regeneration: so that the fight against bad English is not frivolous and is not the exclusive concern of professional writers, but is the joint duty of one and all.

Here is an example of the English language as it is now habitually written.

*"On the one side we have the free personality: by definition it is not neurotic, for it has neither conflict nor dream. Its desires, such as they are, are transparent, for they are just what institutional approval keeps in the forefront of consciousness; another institutional pattern would alter their number and intensity; there is little in them that is natural, irreducible, or culturally dangerous."*

The staleness of imagery and the lack of precision make the above paragraph an atrocity. The writer either has a meaning and cannot express it, or he inadvertently says something else, or he is almost indifferent as to whether his words mean anything or not. This mixture of vagueness and sheer incompetence is the most marked characteristic of modern English prose, and especially of any kind of political writing. As soon as certain topics are raised, the concrete melts into the abstract and no one seems able to think of turns of speech that are not hackneyed: prose consists less and less of words chosen for the sake of their meaning, and more and more of phrases tacked together like the sections of a prefabricated henhouse.

Q.1

What is the main argument of the author in this passage?

- 1 ☐ There is some correct or pure form of language which should be the goal of every political writing.
- 2 ☐ The evolution of language is a natural process and it can't be shaped by our perceptions or purpose.
- 3 ☐ The main problem of today's writing is the staleness of imagery and the lack of precision, both of which are exacerbated by the use of tacky phrases.
- 4 ☐ The problem with today's writing is multifaceted; however, everyone must take the onus of rectifying the problem.

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Q.2

The line "A man may take to drink because he feels himself to be a failure, and then fail all the more completely because he drinks" shows that:

1 ☐ the author is using an analogy.

2 ☐ the author is using onomatopoeia.

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3 ☐ the author is using anagram.

4 ☐ the author is using alliteration.

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**Q.3**

**Which of the following can be inferred from the first paragraph?**

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1 ☐ **The decline of the English language is a reflection of the state of society and politics.**

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2 ☐ **Every language goes through the process of decline which can't be avoided.**

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3 ☐ **Many people are sceptical of the revival of the English language.**

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4 ☐ **Just like any society, the English language is also prone to the perils of evolution.**

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Q.4

With which of the following does the author of the passage not agree?

- 1 ☐ The modern political prose in English is affected by blurred and inept writing.
- 2 ☐ The process of correcting modern English is possible as the causes of such bad habits are reversible.
- 3 ☐ Drinking and failure are co-dependent on each other.
- 4 ☐ It is not correct to blame only writers for the decline of a language.

✕

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Q.5

Which of the following is true about the example of bad writing cited in the passage?

1 ☐ The writer of the paragraph doesn't have a meaning.

2 ☐ The writer of the paragraph lacks some writing skill.

3 ☐ The writer of the paragraph is atrocious in his approach towards writing.

4 ☐ The writer of the paragraph is nonchalant about the efficacy of his meaning.

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Q.6

Which of the following can be inferred from the passage?



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1 ☐ **English as a language is under political and economic threats.**

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2 ☐ **The purpose of any language is to nurture societal values and convey fixed meanings.**

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3 ☐ **The defects in the human spirit cause the promulgation of linguistic disintegration.**

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4 ☐ **The future of the English language, especially written English, is not entirely hopeless.**

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🔍 **Answer key/Solution**

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Directions for questions (7 to 12): The passage below is accompanied by a set of six questions. Choose the best answer to each question.

The money isn't just in treating older women who have spent years trying to conceive. It's in persuading younger women, still in their 20s, to start worrying about their future fertility now — and to pay for pricey tests and services, such as egg freezing, as a hedge against problems down the road.

Sensing a lucrative market, private equity firms are pouring money into building national chains of fertility clinics. Some are spending on splashy advertising and a deliberate strategy of reaching out to young women who are not yet trying to conceive. Venture capitalists are getting into the business, too; this year alone, PitchBook has tallied more than \$178 million flowing into startups developing fertility products, such as a test that promises a credit-score-style rating of a woman's fertility.

The new investors say they leave decisions about clinical practice to physicians. But they're nonetheless transforming an industry that has long been dominated by standalone clinics.

Fertility experts see real benefits for patients: Clinics united into national chains have been sharing best practices, introducing newer technologies, and offering more flexible payment plans for customers.

But some doctors see potential drawbacks, too. They worry that the new ethos of treating fertility medicine as a cash cow may lead to clinics pushing patients toward unnecessary tests and services.

And some are concerned about the ethics of aggressively promoting fertility care such as egg freezing — which can cost between \$14,000 and \$18,000 per cycle in some cities — to healthy young women who may never need it. The procedure carries some risks to the woman and is no guarantee of a future pregnancy; IVF using frozen eggs has just a middling success rate.

There's a fine line that must be walked to steer clear of "preying on someone's emotions," said Dr. Ravi Gada, who co-owns Dallas Fort Worth Fertility Associates, which has turned away multiple overtures from private equity firms.

The U.S. has nearly 500 fertility clinics. Meanwhile, entrepreneurs are promoting an array of new products aimed at assessing fertility.

A \$950 genetic test launched this year, called Fertilome, reports on the likelihood that women have certain conditions linked to fertility problems, in an effort to help guide their next steps. The company behind it has marketed it with evening seminars aimed at working women, promising to outline "proactive steps you can take today to reach your future family building goals."

Another startup called Modern Fertility has begun rolling out its test, which measures various hormone levels including several correlated with how many eggs a woman has in her ovaries. (Such "ovarian reserve" testing is an increasingly popular metric, though it has some limitations.) The Modern Fertility test, which reports a number akin to a credit score meant to be monitored over time, is now available for \$149 at Quest Diagnostics laboratories and will soon be available for use at home.

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Q.7

Which of the following is a valid assumption implicit behind the author's statement that the money is in persuading younger women to start worrying about their future fertility?

- 
- 1 ☐ Women in their 20s need to worry more about their future.
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2 ☐ It is more profitable to lure younger women as customers for the fertility business.

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3 ☐ More and more women in their 20s are trying to improve their chances of being fertile.

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4 ☐ Older women give up on conceiving naturally and hence they make a lot of profit for the fertility clinics.

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 **Bookmark**

 **Answer key/Solution**

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Q.8

All the following are the real benefits for patients of the fertility clinics except:

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1 ☐ Introduction of newer technologies

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2 ☐ Offering more flexible payment plans

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3 ☐ **The transformation of the fertility industry**

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4 ☐ **Sharing of best medical practices**

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FeedBack

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 **Answer key/Solution**

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Q.9

Which of the following is/are products aimed at assessing fertility?

I. IVF

II. Ovarian reserve testing by Modern Fertility

III. Test named Fertilome, which measures various hormone levels

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1 ☐ II and III only

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2 ☐ Only III

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3 ☐ Only I

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4 ☐ I, II, and III

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Q.10

What does the phrase "fine line" signify as per the passage?

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1 ☐ The ethical boundary that lies between profit and investment

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2 ☐ The thin ethical boundary that lies between helping and hurting patients

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3 ☐ The thin boundary line that lies between treatment and exploitation of someone's emotional vulnerability

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4 ☐ The ethical boundary line that lies between making profit and being unscrupulous

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The money isn't just in treating older women who have spent years trying to conceive. It's in persuading younger women, still in their 20s, to start worrying about their future fertility now — and to pay for pricey tests and services, such as egg freezing, as a hedge against problems down the road.

Sensing a lucrative market, private equity firms are pouring money into building national chains of fertility clinics. Some are spending on splashy advertising and a deliberate strategy of reaching out to young women who are not yet trying to conceive. Venture capitalists are getting into the business, too; this year alone, PitchBook has tallied more than \$178 million flowing into startups developing fertility products, such as a test that promises a credit-score-style rating of a woman's fertility.

The new investors say they leave decisions about clinical practice to physicians. But they're nonetheless transforming an industry that has long been dominated by standalone clinics.

Fertility experts see real benefits for patients: Clinics united into national chains have been sharing best practices, introducing newer technologies, and offering more flexible payment plans for customers.

But some doctors see potential drawbacks, too. They worry that the new ethos of treating fertility medicine as a cash cow may lead to clinics pushing patients toward unnecessary tests and services.

And some are concerned about the ethics of aggressively promoting fertility care such as egg freezing — which can cost between \$14,000 and \$18,000 per cycle in some cities — to healthy young women who may never need it. The procedure carries some risks to the woman and is no guarantee of a future pregnancy; IVF using frozen eggs has just a middling success rate.

There's a fine line that must be walked to steer clear of "preying on someone's emotions," said Dr. Ravi Gada, who co-owns Dallas Fort Worth Fertility Associates, which has turned away multiple overtures from private equity firms.

The U.S. has nearly 500 fertility clinics. Meanwhile, entrepreneurs are promoting an array of new products aimed at assessing fertility.

A \$950 genetic test launched this year, called Fertilome, reports on the likelihood that women have certain conditions linked to fertility problems, in an effort to help guide their next steps. The company behind it has marketed it with evening seminars aimed at working women, promising to outline "proactive steps you can take today to reach your future family building goals."

Another startup called Modern Fertility has begun rolling out its test, which measures various hormone levels including several correlated with how many eggs a woman has in her ovaries. (Such "ovarian reserve" testing is an increasingly popular metric, though it has some limitations.) The Modern Fertility test, which reports a number akin to a credit score meant to be monitored over time, is now available for \$149 at Quest Diagnostics laboratories and will soon be available for use at home.

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Q.11

Which of the following is/are potential drawbacks of establishing fertility clinics?

- I. Forcing patients toward unnecessary tests and services
  - II. Ethics of aggressively promoting fertility care
  - III. Fertility clinics most of the times are ineffective
-

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1 ☐ Only I

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2 ☐ Only I and II

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3 ☐ Only III

---

4 ☐ I, II, and III



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 **Answer key/Solution**

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Q.12

Which of the following can be inferred about the main message of the author?

- 
- 1 ☐ Opening of new fertility clinics for profit is unnecessary and condemnable.
- 
- 2 ☐ One must be ethically careful before suggesting and promoting the rapidly growing fertility business.
-

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3 ☐ The expansion of the market for infertility treatment comes with a pinch of salt.

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4 ☐ The private investors who are investing exorbitant amount of money into the fertility business must be ethically investigated.

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Q.13

Which of the following has been mentioned as a benefit of increasing female employment in India?

- 
- 1 ☐ India will be able to supply workers to the factories of Asia.
-

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2 ☐ More girls will be able to go to school.

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3 ☐ India's economic status will improve.

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4 ☐ More women will help their families become part of the middle-class group.

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Q.14

Which of the following has not been mentioned as a reason for an increase in female unemployment?

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1 ☐ Increase in household income

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2 ☐ **Concern for the family's social standing**

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3 ☐ **Orthodox customs**

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4 ☐ **Higher female illiteracy rate**

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Q.15

What is the primary purpose of the author?

- 
- 1 ☐ To enumerate the economic advantage of including women in India's labour force
-

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2 ☐ To highlight the detrimental effects of the low participation of women in India's labour force

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3 ☐ To showcase the low participation of women in India's workforce as a reasons for its poor financial growth

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4 ☐ To analyse the causes of low female employment in the country with some suggested remedies

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Q.16

Which of the following is true according to the passage?

- 
- 1 ☐ India, the world's largest democracy, can do better financially.
-

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2 ☐ India's neighbour, Bangladesh, has increased its working population by 50%.

---

3 ☐ Vietnam has more number of factories as compared to India.

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4 ☐ India's financial progress has not been up to the expectation of IMF.

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Q.17

According to the author, which of the following will help increase the number of women in India's labour force?

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1 ☐ **Reforming the Indian labour market**

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2 ☐ **Promoting education**

---

3 ☐ **Changing villages into urban cities**

---

4 ☐ **Upgrading the economic status of the families**

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---

Q.18

Which of the following can be inferred from the passage?

- 
- 1 ☐ In Bangladesh, majority of the females are part of the labour force.
-



- 2 ☐ Increase in female employment will lead to greater self freedom for females.
- 3 ☐ A female with a university degree will be more likely to join the labour force.
- 4 ☐ Keeping the female child in school for a longer duration is not beneficial in the long run.



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Directions for questions (19 to 21): The passage below is accompanied by a set of three questions. Choose the best answer to each question.

Like Ramos's unflattering portrait of the Mexican in the *Profile*, the purpose of Uranga's analysis of Mexican sentimentality is not simply to put the Mexican on trial. Instead, there is an underlying lesson about the human condition that the Anglo-European can learn from Mexican self-examination. To be accidental is not the tragic fate of Mexicans – the peculiar source of their misery or fascination with death. Instead, it is an essential feature of being human. In other words, if Uranga is right, the belief in the self-sufficiency or substantiality of human existence that defines modern European history – a belief that provided Europeans with a justification for a history of conquest, colonialism, exclusion and exploitation – is not just mistaken or false, it is inhuman.

It is worth pointing out that Uranga's use of 'ontology' is problematic, given that the object of his analysis is the specific being of the Mexican. As the philosopher Guillermo Hurtado of the National Autonomous University of Mexico pointed out in 2011, Uranga engages in a 'micro-regional ontology', not ontology proper. Hurtado asks: 'How far can the regionalisation of an ontology be taken?' However, the seeming regionalisation of ontology did not bother Uranga, as he believed that the results of the analytic would show that Mexican being, as insufficient and accidental, represents being in general. So, for Uranga and el grupo Hiperión, or los hiperiones, the existential analytic of Mexican existence (or Dasein, as Heidegger might have it) would open the path to a greater truth, 'the Mexican is human and the human is Mexican'. Thus, while it might be problematic for a more traditional phenomenologist, we like to see Uranga's appropriations of the phenomenological-existential method as creative, a refusal to employ an approach that already exists and a willingness to adjust the method to match the (historical) object of study.

Q.19

According to the passage, what lesson can the Anglo-European learn from Mexican self-examination?

- 1 ☐ To be accidental is not the tragic fate of Mexicans.
- 2 ☐ To be accidental is a human condition.
- 3 ☐ To be accidental is not just the fate of Mexicans, but also of Anglo-Europeans.
- 4 ☐ To be accidental is the source of human misery and fascination with death.

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Q.20

The line "However, the seeming...general." point to the fact that the method of reasoning used by Urania in his analytic is:

1 ☐ deductive.

2 ☐ inductive.

3 ☐ circular.

4 ☐ causal.

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🔍 Answer key/Solution

Directions for questions (19 to 21): The passage below is accompanied by a set of three questions. Choose the best answer to each question.

Like Ramos's unflattering portrait of the Mexican in the *Profile*, the purpose of Uranga's analysis of Mexican sentimentality is not simply to put the Mexican on trial. Instead, there is an underlying lesson about the human condition that the Anglo-European can learn from Mexican self-examination. To be accidental is not the tragic fate of Mexicans – the peculiar source of their misery or fascination with death. Instead, it is an essential feature of being human. In other words, if Uranga is right, the belief in the self-sufficiency or substantiality of human existence that defines modern European history – a belief that provided Europeans with a justification for a history of conquest, colonialism, exclusion and exploitation – is not just mistaken or false, it is inhuman.

It is worth pointing out that Uranga's use of 'ontology' is problematic, given that the object of his analysis is the specific being of the Mexican. As the philosopher Guillermo Hurtado of the National Autonomous University of Mexico pointed out in 2011, Uranga engages in a 'micro-regional ontology', not ontology proper. Hurtado asks: 'How far can the regionalisation of an ontology be taken?' However, the seeming regionalisation of ontology did not bother Uranga, as he believed that the results of the analytic would show that Mexican being, as insufficient and accidental, represents being in general. So, for Uranga and el grupo Hiperión, or los hiperiones, the existential analytic of Mexican existence (or Dasein, as Heidegger might have it) would open the path to a greater truth, 'the Mexican is human and the human is Mexican'. Thus, while it might be problematic for a more traditional phenomenologist, we like to see Uranga's appropriations of the phenomenological-existential method as creative, a refusal to employ an approach that already exists and a willingness to adjust the method to match the (historical) object of study.

Q.21

Which of the following can be inferred about Uranga from the passage?

- 1 ☐ If Uranga's analytic is correct, the Europeans are inhuman.
- 2 ☐ Both Ramos and Uranga have tried to give the same lesson on human condition while using different approaches.
- 3 ☐ Though Uranga was creative, he can be called rigid as he didn't accept people's criticism of his use of 'ontology'.
- 4 ☐ Uranga's actions hint towards an unorthodox man sure of himself.

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Directions for questions (22 to 24): The passage below is accompanied by a set of three questions. Choose the best answer to each question.

Cycads look the part of foliage on a “Jurassic Park” film set for a reason. The plants are indeed very ancient. They evolved during the Permian period, millions of years before the first dinosaurs existed. Although classified in the same group as conifers, cycads do not release their pollen into the wind like the rest of their kin. Instead, each species of cycad that remains today relies on a specific type of beetle for pollination. This is unusual for a non-flowering plant like the cycad, and has left palaeobotanists curious about how long the plants have relied upon this method. The answer, it seems, is just about forever.

According to a study by Chenyang Cai of the University of Bristol, in Britain, reported in Current Biology this week, cycads have been luring beetles to do their bidding for nearly 100m years. Dr Cai has found the evidence in a fossil. Seeing two organisms interacting with one another in a fossil is remarkably rare; it usually involves finding the teeth of a predator lodged in the bones of prey. So it was particularly exciting for Dr Cai when he spotted cycad pollen fossilised alongside a 2mm-long beetle found in northern Myanmar.

The beetle died 99m years ago, when it got trapped inside sticky tree sap. This sap eventually hardened into amber around the insect and preserved its corpse in pristine condition. Since the amber is clear, Dr Cai and his colleagues have been able to study the beetle and the other material that got lodged in the sap. Their analysis revealed not just the cycad pollen but also that the bug belongs to the family Boganiidae, of which cycad-pollinating beetles are a part.

Crucially, the beetle has cavities just below its jaw filled with tiny hardened hairs that are used by these insects today to feed upon and transport cycad pollen. In the face of the fierce competition brought about by the evolution of flowering plants, the asteroid impact that did in the dinosaurs, the rise of mammals and numerous ice ages, cycads seem to have come up with a reproductive plan and stuck to it steadfastly.

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Q.22

Which one of these is the central idea of the final paragraph?

- 1 ☐ To show how Dr. Cai has proven the primary mode of pollen transfer by which cycads reproduce
- 2 ☐ To show how beetles saved cycads from an evolutionary catastrophe
- 3 ☐ To show how cycads were crucially dependent on beetles for their reproduction when the asteroid attack on earth caused dinosaurs to become extinct
- 4 ☐ To show the importance of beetles in the survival of cycads through centuries of evolution



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 Answer key/Solution

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Q.23

Which one of these is not true according to the passage?

- 1 ☐ Dr. Cai of the University of Bristol has spotted fossilised cycad pollen alongside the fossil of a beetle
- 2 ☐ Paleobotanists have been curious about the method of pollination used by non-flowering plants like cycads.
- 3 ☐ The beetle, whose fossil was discovered by Dr. Cai, died before the era of the dinosaurs.
- 4 ☐ It is rare to find clear evidence of the interaction of two organisms in a fossil.

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Directions for questions (22 to 24): The passage below is accompanied by a set of three questions. Choose the best answer to each question.

Cycads look the part of foliage on a “Jurassic Park” film set for a reason. The plants are indeed very ancient. They evolved during the Permian period, millions of years before the first dinosaurs existed. Although classified in the same group as conifers, cycads do not release their pollen into the wind like the rest of their kin. Instead, each species of cycad that remains today relies on a specific type of beetle for pollination. This is unusual for a non-flowering plant like the cycad, and has left palaeobotanists curious about how long the plants have relied upon this method. The answer, it seems, is just about forever.

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Crucially, the beetle has cavities just below its jaw filled with tiny hardened hairs that are used by these insects today to feed upon and transport cycad pollen. In the face of the fierce competition brought about by the evolution of flowering plants, the asteroid impact that did in the dinosaurs, the rise of mammals and numerous ice ages, cycads seem to have come up with a reproductive plan and stuck to it steadfastly.

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Q.24

Why does the author mention the Bogannidae family of beetles?

- 1 ☐ To establish Dr. Cai's finding that the beetle fossil found in Myanmar proves that cycads used beetles for pollination
- 2 ☐ To establish Dr. Cai's finding that beetles of the Bogannidae family pollinate cycads
- 3 ☐ To establish Dr. Cai's finding that cycads have been luring beetles for pollination for around 100 years
- 4 ☐ To establish Dr. Cai's finding that corpses of the Bogannidae family of beetles are preserved in a pristine condition

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**Q.25**

Directions for question 25: The passage given below is followed by four summaries. Choose the option that best captures the author's position.

One of the first visible effects of currency depreciation is that the country's imports become more expensive and exports cheaper. The reason is simple. It takes more rupees to pay for the same quantum of imports and fewer dollars for a buyer to pay for the same quantity of exports. More expensive imports are likely to drive inflation upward, especially in India where input products constitute a large part of our imports. In addition, a depreciating rupee also impacts the oil import bill since it costs more rupees per barrel of oil, which plays its own part in pushing inflation up.

1. Inflation leads to currency depreciation which is characterised by increase in the price of imported items.
2. With the fall in currency, inflation goes up.
3. With the rise in inflation, the import tax increases and export tax decreases which therefore results in currency depreciation.
4. Currency depreciation is characterised by import prices going up and export prices going down.



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**Q.26**

Directions for question 26: The passage given below is followed by four summaries. Choose the option that best captures the author's position.

In a way, each language-game is spoken in a micro-dialect, one that is affected not just by region, but location, relationships, identity, history, power. When I'm having lunch with my parents, I'm participating in a different language-game than when I'm at a bar with my friends or serving coffee to strangers. Likewise, when we are determining whether some kinds of speech can be understood as violence, it's important to examine the larger context. When Milo Yiannopoulos says "feminism is cancer," for instance, it may be heard differently by Haidt and Lukianoff than by Lisa Feldman Barrett. As white men, Haidt and Lukianoff likely don't have a reference point to understand what it feels like for a woman to hear these words. They won't cut the same way.

1. In the absence of a reference point, white men are unable to fathom how violence in language affects women.
2. The meaning of language depends on a multitude of things and meanings are often prone to subjective interpretation.
3. Each speaker uses language in a different manner, where one's background and belief play a paramount role in conveying the meaning to the listener.
4. Each language is used as a micro-dialect where the meaning is never fixed, but always fluid.



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**Q.27**

**Directions for question 27: The passage given below is followed by four summaries. Choose the option that best captures the author's position.**

By developing a bespoke helmet with movement-tracking capability, researchers have studied visual attention in homing pigeons, according to a study published. Because pigeons move their heads in coordination with their eye movements, the former can be used as a proxy for their visual attention. The trackers, strapped to the birds' heads, logged data about their head movements and location. The researchers found that the birds moved their heads more when flying alone than when flying in pairs. They also decreased this scanning behaviour when flying over major landmarks such as railway tracks. The study concluded that a drop in head movement implied a shift in the pigeon's focus.

1. Researchers, while analyzing the pigeons' movement by using a bespoke helmet, found data to calculate the head movement and location of the birds.
  2. Researchers analyzed pigeons' head movement in flight and discovered that while flying in groups the birds become less cautious.
  3. Researchers analyzed pigeons' head movements in flight and concluded that flying in groups is more beneficial for birds.
  4. Researchers analyzed pigeons' head movements in flight by using a tracker and found that the shift of the bird's focus was related to a drop in its head movement.
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**Q.28**

Directions for question 28: The five sentences (labelled 1, 2, 3, 4, 5) given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the proper order for the sentences and key in this sequence of five numbers as your answer.

1. Nevertheless, in the composition of Raleigh's History of the World, Orwell's apocryphal tale does not quite square with the facts.
  2. This was hardly an ideal research centre, but with characteristic energy Raleigh devoted years of work to his History of the World.
  3. On the death of Queen Elizabeth in 1603, he was tried for high treason on trumped-up charges and imprisoned in the Tower of London.
  4. Written during the first seven years of his long (1603-1616) incarceration, The History of the World is Raleigh's most important prose work.
  5. Raleigh is one of those larger-than-life characters – an inveterate buccaneer and a gifted poet, parodied by Shakespeare in Love's Labours Lost – who has long been an object of awestruck anecdote.
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**Q.29**

Directions for question 29: The five sentences (labelled 1, 2, 3, 4, 5) given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the proper order for the sentences and key in this sequence of five numbers as your answer.

1. Furthermore, in organized team sports, children work together to accomplish a task and learn from their mistakes.
  2. These lessons directly translate into the classroom and beyond, and they are the reason that Little League considers itself a youth leadership organization, as much as it does a competitive baseball and softball program.
  3. To be successful in baseball and softball, you need to learn from failure and losing, more so than the act of winning.
  4. While striving to win, children learn about teamwork, leadership and sportsmanship, all of which can contribute to their development as solid citizens.
  5. Perfect games are a rarity. Even some of our World Series champions have had to fight back from a tough defeat earlier in a tournament.
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**Q.30**

Directions for question 30: The five sentences (labelled 1, 2, 3, 4, 5) given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the proper order for the sentences and key in this sequence of five numbers as your answer.

1. The extinctions coincided with increased volcanic activity in Siberia, but evidence has not supported this as a sole cause.
2. The largest mass extinction, occurring 252 million years ago at the end of the Permian Period, before dinosaurs walked the Earth, wiped out approximately 95 percent of all life.
3. They showed that the methanogenic archaea acquired the ability to break down acetate, which had built up in sediments, through gene transfer from a bacterium about 250 million years ago, just before the mass extinction.
4. MIT's Daniel Rothman and colleagues presented compelling evidence that an unprecedented increase in methane-producing microbes is the cause.
5. The cause of the event has long been a topic of debate.

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**Q.31**

Directions for question 31: The five sentences (labelled 1, 2, 3, 4, 5) given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the proper order for the sentences and key in this sequence of five numbers as your answer.

1. In the study, the team targeted a region of a gene called doublesex that is responsible for female development.
2. Female *Anopheles gambiae* mosquitoes with two copies of the altered doublesex gene did not lay eggs.
3. After eight generations, the drive had spread through the entire population, such that no eggs were laid.
4. This is the first time a gene drive—a genetic element that ensures its own inheritance—has caused a population of mosquitoes to self-destruct, a result that holds promise for combating malaria.
5. A gene drive has successfully caused the collapse of a malaria-carrying mosquito population in the lab, researches report.

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### Q.32

Directions for question 32: Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

1. But so aloof is he from general suspicion, so immune from criticism, so admirable in his management of self-effacement, that for those very words that you have uttered he could hale you to a court and emerge with your year's pension as a solatium for his wounded character.
2. But in calling this man a criminal you are uttering libel in the eyes of the law- and there lie the glory and the wonder of it!
3. Foul-mouthed doctor and slandered professor – such would be your respective roles!
4. The greatest schemer of all time, the organizer of every deviltry, the controlling brain of the underworld, a brain which might have made or marred the destiny of nations – that's the man!
5. Led on by some rudimentary aspirations towards right, and encouraged by the judicious stimulation of an occasional ten-pound note sent to him by devious methods, he has once or twice given me advance information which has been of value.

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### Q.33

Directions for question 33: Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

1. For this reason young people, who are beginners in everything, do not yet know how to love: they must learn.
2. With their whole being, with all their strength, concerted on their solitary, fearful, upward beating hearts, they have to learn to love.
3. To love is also good, for love is hard.
4. Love between one person and another: that is perhaps the hardest thing it is laid on us to do, the utmost, the ultimate trial and test, the work for which all other work is just preparation.
5. Whoever looks at the matter seriously finds that, as for death, which is difficult, no explanation, no solution, has yet been discovered for love, which is difficult too.

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Q.34

Directions for question 34: Five sentences related to a topic are given below. Four of them can be put together to form a meaningful and coherent short paragraph. Identify the odd one out.

1. There are more Mughal artefacts stacked in this private house in the Welsh countryside than are on display at any one place in India – even the National Museum in Delhi.
2. According to the Oxford English Dictionary, this word was rarely heard outside the plains of north India until the late 18th century, when it suddenly became a common term across Britain.
3. We still talk about the British conquering India, but that phrase disguises a more sinister reality.
4. To understand how and why it took root and flourished in so distant a landscape, one need only visit Powis Castle.
5. One of the very first Indian words to enter the English language was the Hindustani slang for plunder: “loot”.

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## Sec 2

Directions for questions 35 to 38: Answer the questions on the basis of the information given below.

In TS Education Pvt Ltd., there are four categories of employees: Category A, B, C and D. No employee has a basic salary less than 2 lakhs. If TDS is deducted from the employees' salary, it is deducted at 10% of the basic salary. If GST is paid to an employee, it is paid at 18% of the basic salary. Also it is known that: Category A employees have their basic salary less than 5 lakhs but not less than 2 lakhs and neither TDS is deducted from their salaries nor they are paid the GST. Category B employees who have their basic salary less than 10 lakhs but not less than 5 lakhs are paid the GST but no TDS is deducted from their salaries.

Category C employees who have their basic salary less than 20 lakhs but not less than 10 lakhs are not paid the GST but TDS is deducted from their salaries.

Category D employees who have their basic salary not less than 20 lakhs are paid the GST and TDS too is deducted from their salaries.

Net salary is the final salary after deducting TDS (wherever applicable) and/or including GST (wherever applicable). The basic salary and the net salary of each employee is an integral multiple of 1000.

Q.35

If there are at least 5 employees in each category but not more than 10 employees in any category, then what is the minimum possible average net salary (in thousands) of all employees if the average net salary is an integral multiple of 1000?

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Directions for questions 35 to 38: Answer the questions on the basis of the information given below.

In TS Education Pvt Ltd., there are four categories of employees: Category A, B, C and D. No employee has a basic salary less than 2 lakhs. If TDS is deducted from the employees' salary, it is deducted at 10% of the basic salary. If GST is paid to an employee, it is paid at 18% of the basic salary. Also it is known that: Category A employees have their basic salary less than 5 lakhs but not less than 2 lakhs and neither TDS is deducted from their salaries nor they are paid the GST. Category B employees who have their basic salary less than 10 lakhs but not less than 5 lakhs are paid the GST but no TDS is deducted from their salaries.

Category C employees who have their basic salary less than 20 lakhs but not less than 10 lakhs are not paid the GST but TDS is deducted from their salaries.

Category D employees who have their basic salary not less than 20 lakhs are paid the GST and TDS too is deducted from their salaries.

Net salary is the final salary after deducting TDS (wherever applicable) and/or including GST (wherever applicable). The basic salary and the net salary of each employee is an integral multiple of 1000.

Q.36

Which of the following cannot be the net salary of a Category C employee?

- 1 ☐ 10,80,000
- 2 ☐ 9,00,000
- 3 ☐ 18,90,000
- 4 ☐ None of these

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Directions for questions 35 to 38: Answer the questions on the basis of the information given below.

In TS Education Pvt Ltd., there are four categories of employees: Category A, B, C and D. No employee has a basic salary less than 2 lakhs. If TDS is deducted from the employees' salary, it is deducted at 10% of the basic salary. If GST is paid to an employee, it is paid at 18% of the basic salary. Also it is known that: Category A employees have their basic salary less than 5 lakhs but not less than 2 lakhs and neither TDS is deducted from their salaries nor they are paid the GST. Category B employees who have their basic salary less than 10 lakhs but not less than 5 lakhs are paid the GST but no TDS is deducted from their salaries.

Category C employees who have their basic salary less than 20 lakhs but not less than 10 lakhs are not paid the GST but TDS is deducted from their salaries.

Category D employees who have their basic salary not less than 20 lakhs are paid the GST and TDS too is deducted from their salaries.

Net salary is the final salary after deducting TDS (wherever applicable) and/or including GST (wherever applicable). The basic salary and the net salary of each employee is an integral multiple of 1000.

Q.37

What is the minimum possible net salary (in thousands) of an employee from Category D whose net salary is equal to the sum of the net salaries of some employees of Category B?

1 ☐ 3186

2 ☐ 2950

3 ☐ 2079

4 ☐ 2360



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Directions for questions 35 to 38: Answer the questions on the basis of the information given below.

In TS Education Pvt Ltd., there are four categories of employees: Category A, B, C and D. No employee has a basic salary less than 2 lakhs. If TDS is deducted from the employees' salary, it is deducted at 10% of the basic salary. If GST is paid to an employee, it is paid at 18% of the basic salary. Also it is known that: Category A employees have their basic salary less than 5 lakhs but not less than 2 lakhs and neither TDS is deducted from their salaries nor they are paid the GST. Category B employees who have their basic salary less than 10 lakhs but not less than 5 lakhs are paid the GST but no TDS is deducted from their salaries.

Category C employees who have their basic salary less than 20 lakhs but not less than 10 lakhs are not paid the GST but TDS is deducted from their salaries.

Category D employees who have their basic salary not less than 20 lakhs are paid the GST and TDS too is deducted from their salaries.

Net salary is the final salary after deducting TDS (wherever applicable) and/or including GST (wherever applicable). The basic salary and the net salary of each employee is an integral multiple of 1000.

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**Q.38**

The net salary of an employee is a multiple of 27000. Which category he might be belonging to?

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1 ☐ Category C

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2 ☐ Category C or D

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3 ☐ Category B or C

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4 ☐ Any of B, C or D

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Direction for questions 39 to 42 : Answer the questions on the basis of the information given below.

In an 'ABC' tuition classes, the performance of 22 students of a batch is represented by their teacher in the form of a matrix having two rows, 1 and 2, from top to bottom and 11 columns numbered as 1, 2, 3, 4,..., 11, from left to right. Every student knows which cell of matrix represents his performance. This matrix is filled with numbers from 1 to 22 to represent the ranking of these 22 students in the class. Some points that teacher has to keep in mind, while filling this matrix, are as follows:

- No two even or odd numbers can be in the same column.
- All the even multiples of 3 should be in consecutive columns with in the same row, and the same follows for all the odd multiples of 3.
- 1 and 3 should be in column 1 and column 11.
- There should be exactly one column between the column having number 3 and the column having number 12.
- 21 is in the 1st row and 9th column.
- 14 and 22 should be in the same row and there should be 6 columns between the column having number 14 and the column having number 22.
- All multiples of 4 (except 12) should be in consecutive columns. Same holds true for 5 and 10.
- All multiples of 5, 10 and 4 (except 12) should be in the same row.
- Sum of the numbers in the 1st column is the second highest prime number and that of in 3rd column is the highest prime number less than 31.

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Q.39

What is the sum of the numbers in the second row?

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1 ☐ 150

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2 ☐ 139

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3 ☐ 131

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4 ☐ 141

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 Answer key/Solution



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Direction for questions 39 to 42 : Answer the questions on the basis of the information given below.

In an 'ABC' tuition classes, the performance of 22 students of a batch is represented by their teacher in the form of a matrix having two rows, 1 and 2, from top to bottom and 11 columns numbered as 1, 2, 3, 4,..., 11, from left to right. Every student knows which cell of matrix represents his performance. This matrix is filled with numbers from 1 to 22 to represent the ranking of these 22 students in the class. Some points that teacher has to keep in mind, while filling this matrix, are as follows:

- No two even or odd numbers can be in the same column.
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- 1 and 3 should be in column 1 and column 11.
- There should be exactly one column between the column having number 3 and the column having number 12.
- 21 is in the 1st row and 9th column.
- 14 and 22 should be in the same row and there should be 6 columns between the column having number 14 and the column having number 22.
- All multiples of 4 (except 12) should be in consecutive columns. Same holds true for 5 and 10.
- All multiples of 5, 10 and 4 (except 12) should be in the same row.
- Sum of the numbers in the 1st column is the second highest prime number and that of in 3rd column is the highest prime number less than 31.

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Q.40

What are the numbers in column 7?

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1 ☐ 15 and 14

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2 ☐ 5 and 2

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3 ☐ 5 and 14

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4 ☐ 10 and 19

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Direction for questions 39 to 42 : Answer the questions on the basis of the information given below.

In an 'ABC' tuition classes, the performance of 22 students of a batch is represented by their teacher in the form of a matrix having two rows, 1 and 2, from top to bottom and 11 columns numbered as 1, 2, 3, 4,..., 11, from left to right. Every student knows which cell of matrix represents his performance. This matrix is filled with numbers from 1 to 22 to represent the ranking of these 22 students in the class. Some points that teacher has to keep in mind, while filling this matrix, are as follows:

- No two even or odd numbers can be in the same column.
- All the even multiples of 3 should be in consecutive columns with in the same row, and the same follows for all the odd multiples of 3.
- 1 and 3 should be in column 1 and column 11.
- There should be exactly one column between the column having number 3 and the column having number 12.
- 21 is in the 1st row and 9th column.
- 14 and 22 should be in the same row and there should be 6 columns between the column having number 14 and the column having number 22.
- All multiples of 4 (except 12) should be in consecutive columns. Same holds true for 5 and 10.
- All multiples of 5, 10 and 4 (except 12) should be in the same row.
- Sum of the numbers in the 1st column is the second highest prime number and that of in 3rd column is the highest prime number less than 31.

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Q.41

What is the sum of the numbers in column 10?

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1 ☐ 15

---

2 ☐ 27

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3 ☐ 15 or 27

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4 ☐ 27 or 21

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Feedback

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 Answer key/Solution

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Direction for questions 39 to 42 : Answer the questions on the basis of the information given below.

In an 'ABC' tuition classes, the performance of 22 students of a batch is represented by their teacher in the form of a matrix having two rows, 1 and 2, from top to bottom and 11 columns numbered as 1, 2, 3, 4,..., 11, from left to right. Every student knows which cell of matrix represents his performance. This matrix is filled with numbers from 1 to 22 to represent the ranking of these 22 students in the class. Some points that teacher has to keep in mind, while filling this matrix, are as follows:

- No two even or odd numbers can be in the same column.
- All the even multiples of 3 should be in consecutive columns with in the same row, and the same follows for all the odd multiples of 3.
- 1 and 3 should be in column 1 and column 11.
- There should be exactly one column between the column having number 3 and the column having number 12.
- 21 is in the 1st row and 9th column.
- 14 and 22 should be in the same row and there should be 6 columns between the column having number 14 and the column having number 22.
- All multiples of 4 (except 12) should be in consecutive columns. Same holds true for 5 and 10.
- All multiples of 5, 10 and 4 (except 12) should be in the same row.
- Sum of the numbers in the 1st column is the second highest prime number and that of in 3rd column is the highest prime number less than 31.

---

Q.42

If 11 is in column 2, and 17 and 2 are next to each other, then 7 can be in which column?

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1 ☐ 4

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2 ☐ 6

---

3 ☐ 3

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4 ☐ 1

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FeedBack

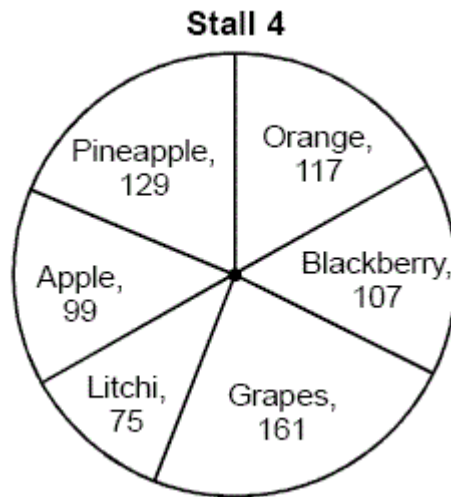
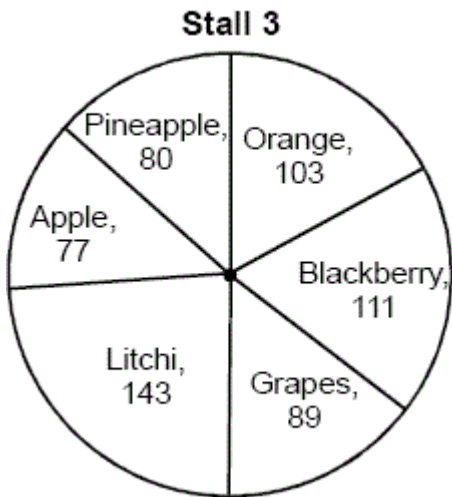
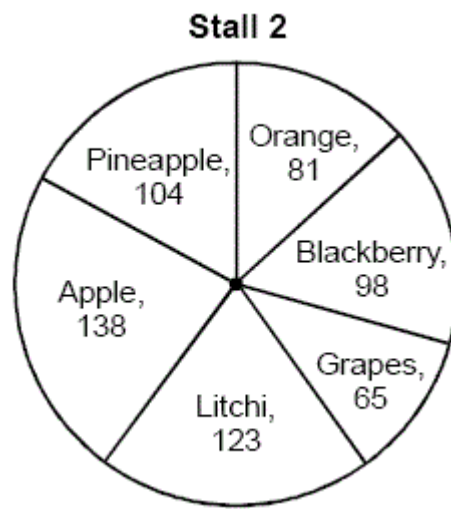
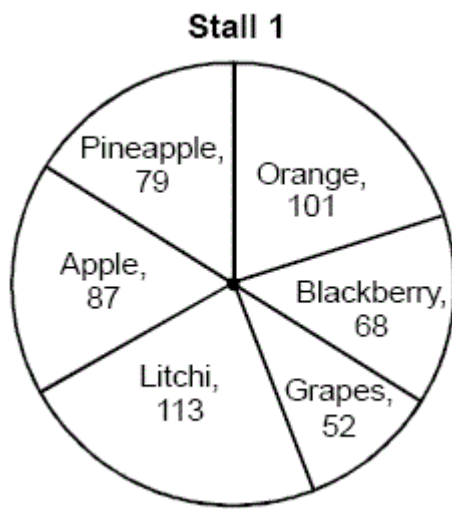
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 Answer key/Solution

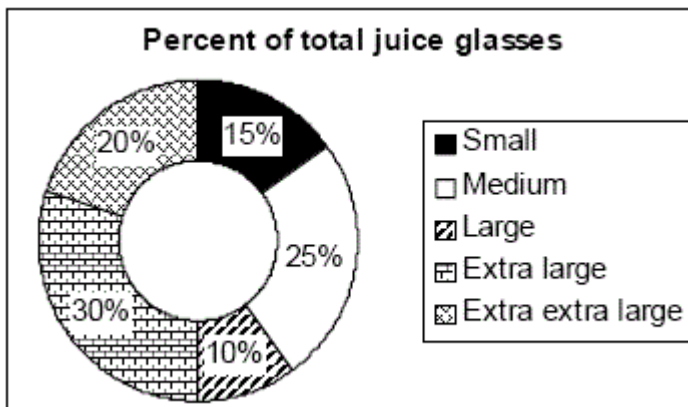
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Direction for questions 43 to 46: Answer the questions on the basis of the information given below.

In a recent National Teacher's Convention held in Bangalore, a few volunteers of Mysore University took the initiative to set up four stalls - Stall 1, Stall 2, Stall 3 and Stall 4 - to distribute fruit juices to all participants in the convention for free. They arranged six kinds of juices - Pineapple, Orange, Blackberry, Grapes, Litchi and Apple - in all of the four stalls. The pie charts given below provide the total number of glasses of each type of juice available in the four stalls.



Every glass of juice in these stalls is classified into five groups - 'Small', 'Medium', 'Large', 'Extra large' and 'Extra extra large' - based on their capacities. The pie chart given below shows the number of juice glasses in each of the above groups as a percentage of the total number of juice glasses in these four stalls.

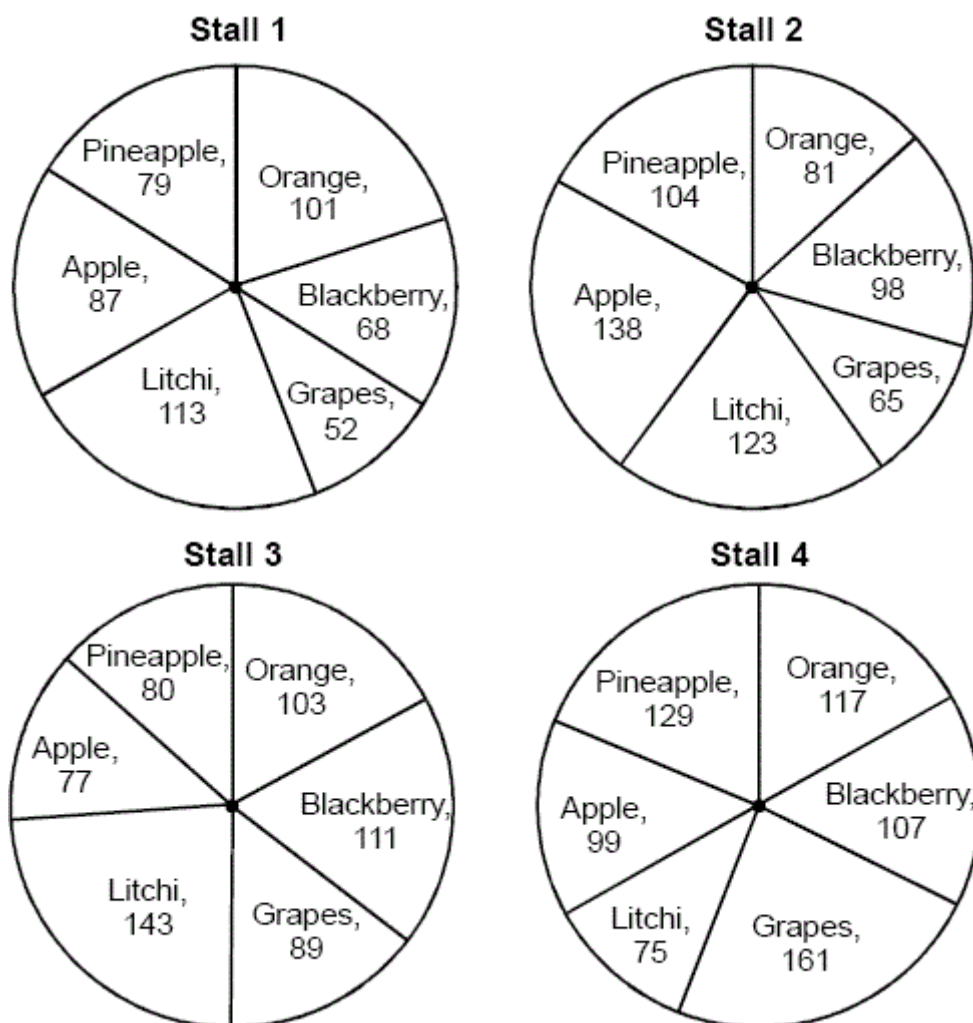


**Q.43**

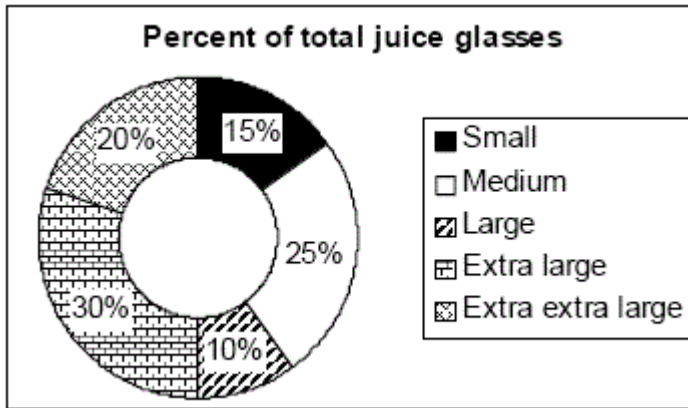
In Stall 2 and Stall 3, the total number of juice glasses in the 'Extra large' group as a percent of the total juice glasses in the respective stalls is not more than 1 percent. In Stall 1, the total number of juice glasses in the 'Extra large' group as a percent of the total juice glasses in Stall 1 cannot be less than

Direction for questions 43 to 46: Answer the questions on the basis of the information given below.

In a recent National Teacher's Convention held in Bangalore, a few volunteers of Mysore University took the initiative to set up four stalls - Stall 1, Stall 2, Stall 3 and Stall 4 - to distribute fruit juices to all participants in the convention for free. They arranged six kinds of juices - Pineapple, Orange, Blackberry, Grapes, Litchi and Apple - in all of the four stalls. The pie charts given below provide the total number of glasses of each type of juice available in the four stalls.



Every glass of juice in these stalls is classified into five groups - 'Small', 'Medium', 'Large', 'Extra large' and 'Extra extra large' - based on their capacities. The pie chart given below shows the number of juice glasses in each of the above groups as a percentage of the total number of juice glasses in these four stalls.



**Q.44**

In Stall 2 and in Stall 3, the total number of juice glasses in the 'Extra large' group as a percent of the total juice glasses in the respective stalls is not more than 1 percent.

If the ratio of the number of juice glasses in Stall 1 and Stall 4 that are in the 'Extra large' group is 2 : 7 , then find the difference between the total number of juice glasses in Stall 1 and in Stall 4 which does not come under the 'Extra large' group.

1 ☐ 207

2 ☐ 212

3 ☐ 214

4 ☐ Either (1) or (2)

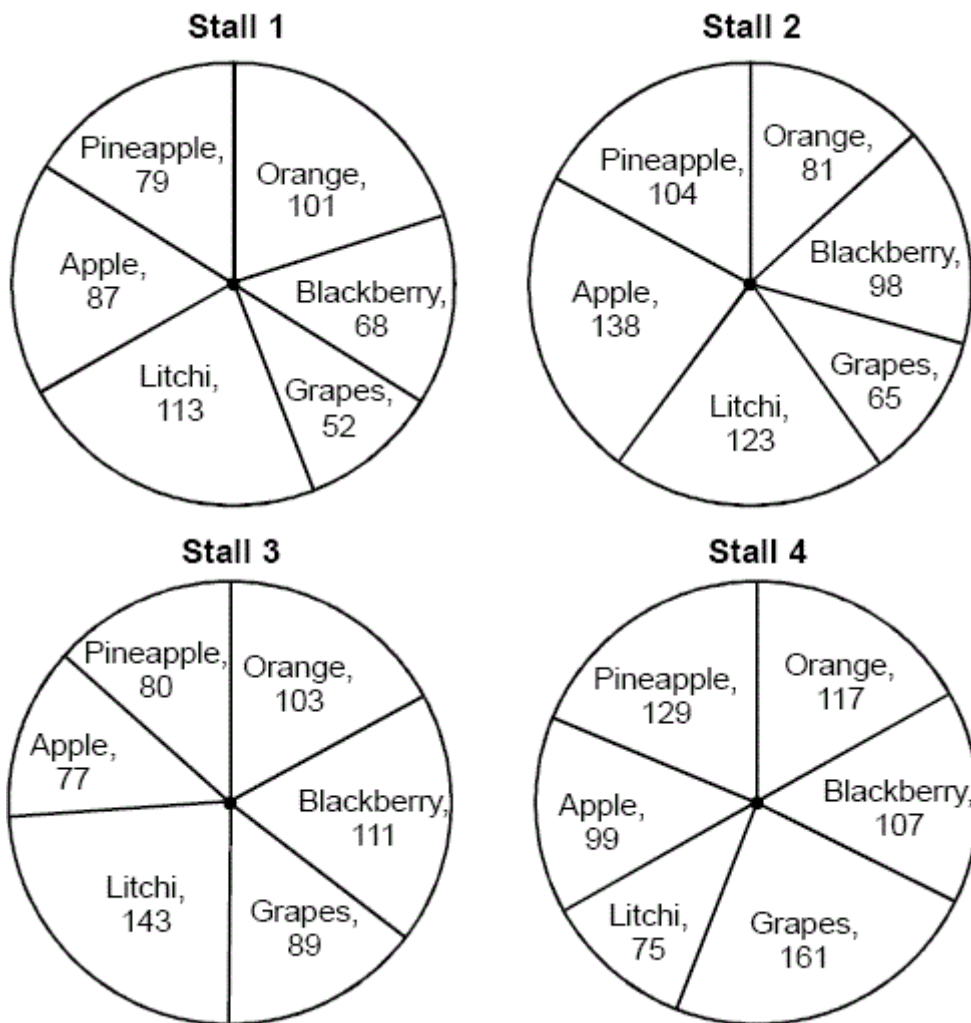
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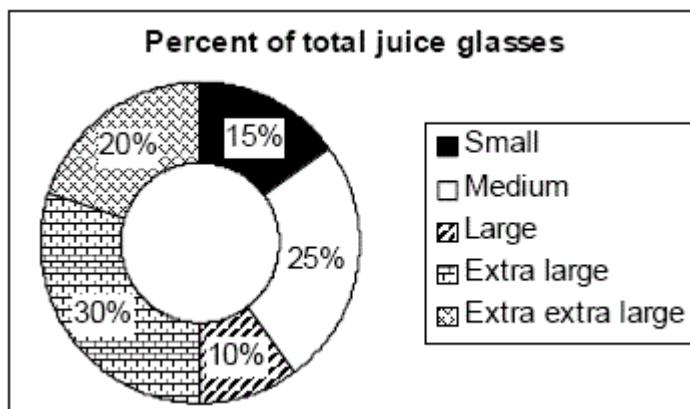
☐ Answer key/Solution

**Direction for questions 43 to 46: Answer the questions on the basis of the information given below.**

In a recent National Teacher's Convention held in Bangalore, a few volunteers of Mysore University took the initiative to set up four stalls - Stall 1, Stall 2, Stall 3 and Stall 4 - to distribute fruit juices to all participants in the convention for free. They arranged six kinds of juices - Pineapple, Orange, Blackberry, Grapes, Litchi and Apple - in all of the four stalls. The pie charts given below provide the total number of glasses of each type of juice available in the four stalls.



Every glass of juice in these stalls is classified into five groups - 'Small', 'Medium', 'Large', 'Extra large' and 'Extra extra large' - based on their capacities. The pie chart given below shows the number of juice glasses in each of the above groups as a percentage of the total number of juice glasses in these four stalls.



Q.45

All the glasses with one of the three juices namely, Blackberry, Grapes and Orange, are in one of the three groups, 'Small', 'Medium' and 'Large' only. Moreover, the number of juice glasses of Litchi, Apple and Pineapple, which are in one of the three groups of 'Small', 'Medium' and 'Large' are 'a', 'b' and 'c' respectively.

Which of the following can be the value of a : b : c?

1 ☐ 12 : 7 : 18

---

2 ☐ 13:17:17

---

3 ☐ 14:7:16

---

4 ☐ 15:7:18

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FeedBack

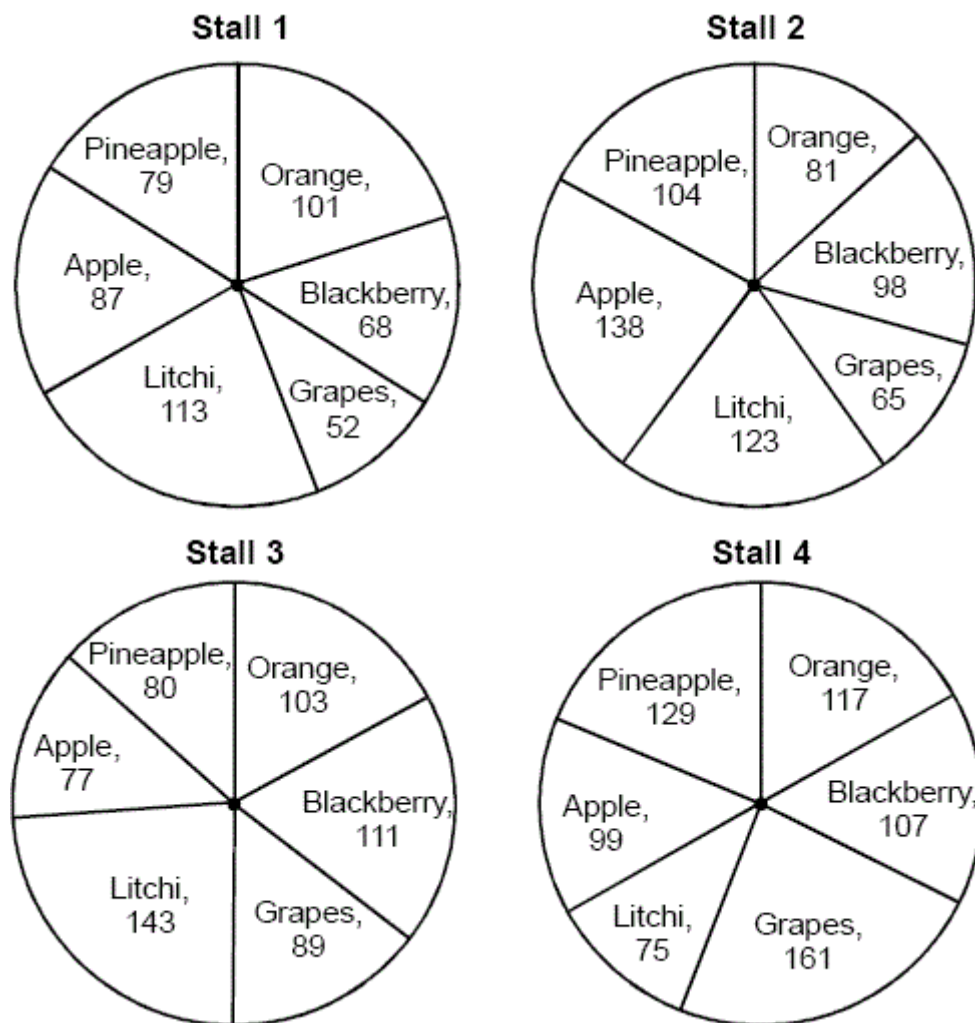
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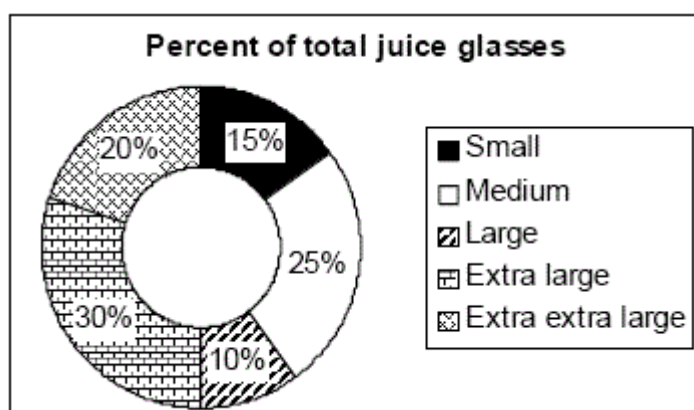


Direction for questions 43 to 46: Answer the questions on the basis of the information given below.

In a recent National Teacher's Convention held in Bangalore, a few volunteers of Mysore University took the initiative to set up four stalls - Stall 1, Stall 2, Stall 3 and Stall 4 - to distribute fruit juices to all participants in the convention for free. They arranged six kinds of juices - Pineapple, Orange, Blackberry, Grapes, Litchi and Apple - in all of the four stalls. The pie charts given below provide the total number of glasses of each type of juice available in the four stalls.



Every glass of juice in these stalls is classified into five groups - 'Small', 'Medium', 'Large', 'Extra large' and 'Extra extra large' - based on their capacities. The pie chart given below shows the number of juice glasses in each of the above groups as a percentage of the total number of juice glasses in these four stalls.



Q.46

All the glasses with one of the three juices namely, Blackberry, Grapes and Orange, are in one of the three groups, 'Small', 'Medium' and 'Large' only. Moreover, the number of juice glasses of Litchi, Apple and Pineapple, which are in one of the three groups of 'Small', 'Medium' and 'Large' are 'a', 'b' and 'c' respectively.

If the value of a is maximum possible, then the total number of juice glasses of Litchi in Stall 2 that does not come under the 'Small', 'Medium' or 'Large' group cannot be less than

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Answer key/Solution

Direction for questions 47 to 50: Answer the questions on the basis of the information given below.

In High School Examination of Gujarat Education Board in 2018, a total of 10 exams were conducted over a total of 5 sections - Science, Mathematics, Social, Language and English. Some of these sections are divided into sub-sections as

- Science into Chemistry, Biology and Physics
- Social into Civics and History
- Language into Sanskrit and Hindi
- English into Poetry and Pose

Maximum marks for each of the ten exams were 100. The total marks scored by a student in these exams are calculated by performing the following steps:

The total score of a section is calculated by determining the average marks in the papers of all the subsections of that section. And the total score of a student in all 5 sections taken together was counted as the average of his scores in the 5 sections. The figures for the top ten students of a school in various subjects are provided in the table given below, EXCEPT the marks scored by David in sub-section Poetry.

Name	Science			Maths	Social		Language		English		Total
	Chemistry	Biology	Physics		Civics	History	Sanskrit	Hindi	Poetry	Prose	
Alia	99	96	96	99	96	95	93	82	93	92	94.3
Sanjay	96	97	95	98	96	97	93	92	96	95	
Trisha	98	79	96	99	94	85	91	92	96	87	
Shruti	89	85	96	100	98	97	95	94	95	96	
Prayag	98	95	98	98	95	83	93	90	94	94	
Sahil	98	99	97	96	98	96	97	94	94	92	95.9
Jackie	94	98	90	100	97	94	92	90	95	94	95.0
Raju	99	95	97	97	96	95	94	94	98	96	
Arush	96	97	98	98	93	95	96	94	98	96	
David	98	98	98	95	95	96	94	96	?	96	96.0

---

**Q.47**

**Find out the total marks scored by David in the Poetry exam.**

---

1 ☐ 92

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2 ☐ 95

---

3 ☐ 97

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4 ☐ 99

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🔍 Answer key/Solution

Direction for questions 47 to 50: Answer the questions on the basis of the information given below.

In High School Examination of Gujarat Education Board in 2018, a total of 10 exams were conducted over a total of 5 sections - Science, Mathematics, Social, Language and English. Some of these sections are divided into sub-sections as

- Science into Chemistry, Biology and Physics
- Social into Civics and History
- Language into Sanskrit and Hindi
- English into Poetry and Prose

Maximum marks for each of the ten exams were 100. The total marks scored by a student in these exams are calculated by performing the following steps:

The total score of a section is calculated by determining the average marks in the papers of all the subsections of that section. And the total score of a student in all 5 sections taken together was counted as the average of his scores in the 5 sections. The figures for the top ten students of a school in various subjects are provided in the table given below, EXCEPT the marks scored by David in sub-section Poetry.

Name	Science			Maths	Social		Language		English		Total
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Trisha	98	79	96	99	94	85	91	92	96	87	
Shruti	89	85	96	100	98	97	95	94	95	96	
Prayag	98	95	98	98	95	83	93	90	94	94	
Sahil	98	99	97	96	98	96	97	94	94	92	95.9
Jackie	94	98	90	100	97	94	92	90	95	94	95.0
Raju	99	95	97	97	96	95	94	94	98	96	
Arush	96	97	98	98	93	95	96	94	98	96	
David	98	98	98	95	95	96	94	96	?	96	96.0

Q.48

All these top ten students were given a chance to reattempt and upgrade their marks in any one of the sub-sections, in order to increase their total marks. All the students chose that subject smartly, to increase their total score with maximum possible marks, and hence obtained 100 marks in that paper after the reattempt. Who among the following students has the maximum total score after reattempt?

1 ☐ Arush

2 ☐ Alia

3 ☐ Prayag

4 ☐ David



**Direction for questions 47 to 50: Answer the questions on the basis of the information given below.**

In High School Examination of Gujarat Education Board in 2018, a total of 10 exams were conducted over a total of 5 sections - Science, Mathematics, Social, Language and English. Some of these sections are divided into sub-sections as

- Science into Chemistry, Biology and Physics
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Sanjay	96	97	95	98	96	97	93	92	96	95	
Trisha	98	79	96	99	94	85	91	92	96	87	
Shruti	89	85	96	100	98	97	95	94	95	96	
Prayag	98	95	98	98	95	83	93	90	94	94	
Sahil	98	99	97	96	98	96	97	94	94	92	95.9
Jackie	94	98	90	100	97	94	92	90	95	94	95.0
Raju	99	95	97	97	96	95	94	94	98	96	
Arush	96	97	98	98	93	95	96	94	98	96	
David	98	98	98	95	95	96	94	96	?	96	96.0

**Q.49**

Had Jackie, Alia, Prayag and Trisha all scored 100 in Hindi sub-section of Language section, then what will be their positions in the descending order of their total scored marks?

1 ☐ Jackie, Trisha, Prayag, Alia

2 ☐ Prayag, Trisha, Alia, Jackie

3 ☐ Alia, Jackie, Prayag, Trisha

4 ☐ Alia, Trisha, Prayag, Jackie



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Answer key/Solution

Direction for questions 47 to 50: Answer the questions on the basis of the information given below.

In High School Examination of Gujarat Education Board in 2018, a total of 10 exams were conducted over a total of 5 sections - Science, Mathematics, Social, Language and English. Some of these sections are divided into sub-sections as

- Science into Chemistry, Biology and Physics
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Maximum marks for each of the ten exams were 100. The total marks scored by a student in these exams are calculated by performing the following steps:

The total score of a section is calculated by determining the average marks in the papers of all the subsections of that section. And the total score of a student in all 5 sections taken together was counted as the average of his scores in the 5 sections. The figures for the top ten students of a school in various subjects are provided in the table given below, EXCEPT the marks scored by David in sub-section Poetry.

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	Chemistry	Biology	Physics		Civics	History	Sanskrit	Hindi	Poetry	Prose	
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Sanjay	96	97	95	98	96	97	93	92	96	95	
Trisha	98	79	96	99	94	85	91	92	96	87	
Shruti	89	85	96	100	98	97	95	94	95	96	
Prayag	98	95	98	98	95	83	93	90	94	94	
Sahil	98	99	97	96	98	96	97	94	94	92	95.9
Jackie	94	98	90	100	97	94	92	90	95	94	95.0
Raju	99	95	97	97	96	95	94	94	98	96	
Arush	96	97	98	98	93	95	96	94	98	96	
David	98	98	98	95	95	96	94	96	?	96	96.0

Q.50

The Gujarat Education Board announces a prize of Rs. 50,000 and a laptop to the student who has secured the highest score in Social section. However, they have set a criterion that only the students, among the ten students, who have secured at least 95 in all the 5 sections are eligible for the prize. Which student received that prize?

1 ☐ Shruti

2 ☐ Sahil

3 ☐ Raju

4 ☐ David



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Answer key/Solution

Directions for questions 51 to 54: Answer the questions on the basis of the information given below.

A startup company, Bluebells, recruited certain number of employees and the company initially operated in six different departments- Strategic Development(SD), Rural Improvement(RI), Technical Content(TC), Human Resources(HR), Buisness Ideas(BI), and Risk Engagement(RE).

All employees were have to share the work of different departments among themselves since the company was in the initial stages of establishment. The following statements identify the preferences of the employees to do the work in different departments:

- All the employees who like to work in RI department also like to work in BI department.
- All the employees who like to work in TC department also like to work in HR department.
- All the employees who like to work in BI department do not like to work in TC department and viceversa.
- Some employees who like to work in BI department also like to work in SD department.
- Some employees who like to work in HR department also like to work in BI department.
- All the employees who like to work in HR department also like to work in RE department.

Note: If Shivam, Chetan and Balu Rai are some of the many employees of the company, then answer the following questions.

Q.51

If Shivam likes to work in HR department, then which of the following must be true?

1 ☐ He may or may not like to work in TC.

2 ☐ He does not like to work in RI.

3 ☐ He likes to work in SD.

---

4 ☐ He likes to work in TC.

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🔍 Answer key/Solution

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**Directions for questions 51 to 54: Answer the questions on the basis of the information given below.**

**A startup company, Bluebells, recruited certain number of employees and the company initially operated in six different departments- Strategic Development(SD), Rural Improvement(RI), Technical Content(TC), Human Resources(HR), Buisness Ideas(BI), and Risk Engagement(RE).**

**All employees were have to share the work of different departments among themselves since the company was in the initial stages of establishment. The following statements identify the preferences of the employees to do the work in different departments:**

- All the employees who like to work in RI department also like to work in BI department.
- All the employees who like to work in TC department also like to work in HR department.
- All the employees who like to work in BI department do not like to work in TC department and viceversa.
- Some employees who like to work in BI department also like to work in SD department.
- Some employees who like to work in HR department also like to work in BI department.
- All the employees who like to work in HR department also like to work in RE department.

**Note: If Shivam, Chetan and Balu Rai are some of the many employees of the company, then answer the following questions.**

---

**Q.52**

**If Balu Rai likes to work in RI department, then he may also like to work in any of the departments, except**

---

1 ☐ SD

---

2 ☐ TC

---

3 ☐ HR

---

4 ☐ BI

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🔍 Answer key/Solution



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Directions for questions 51 to 54: Answer the questions on the basis of the information given below.

A startup company, Bluebells, recruited certain number of employees and the company initially operated in six different departments- Strategic Development(SD), Rural Improvement(RI), Technical Content(TC), Human Resources(HR), Buisness Ideas(BI), and Risk Engagement(RE).

All employees were have to share the work of different departments among themselves since the company was in the initial stages of establishment. The following statements identify the preferences of the employees to do the work in different departments:

- All the employees who like to work in RI department also like to work in BI department.
- All the employees who like to work in TC department also like to work in HR department.
- All the employees who like to work in BI department do not like to work in TC department and viceversa.
- Some employees who like to work in BI department also like to work in SD department.
- Some employees who like to work in HR department also like to work in BI department.
- All the employees who like to work in HR department also like to work in RE department.

Note: If Shivam, Chetan and Balu Rai are some of the many employees of the company, then answer the following questions.

---

Q.53

If Chetan likes to work in TC department, then which of the following must be false?

- 1 ☐ He does not like to work in SD.
- 2 ☐ He likes to work in RE.
- 3 ☐ He does not like to work in RI.
- 4 ☐ He may like to work in BI.

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 Answer key/Solution

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Directions for questions 51 to 54: Answer the questions on the basis of the information given below.

A startup company, Bluebells, recruited certain number of employees and the company initially operated in six different departments- Strategic Development(SD), Rural Improvement(RI), Technical Content(TC), Human Resources(HR), Buisness Ideas(BI), and Risk Engagement(RE).

All employees were have to share the work of different departments among themselves since the company was in the initial stages of establishment. The following statements identify the preferences of the employees to do the work in different departments:

- All the employees who like to work in RI department also like to work in BI department.
- All the employees who like to work in TC department also like to work in HR department.
- All the employees who like to work in BI department do not like to work in TC department and viceversa.
- Some employees who like to work in BI department also like to work in SD department.
- Some employees who like to work in HR department also like to work in BI department.
- All the employees who like to work in HR department also like to work in RE department.

Note: If Shivam, Chetan and Balu Rai are some of the many employees of the company, then answer the following questions.

---

Q.54

Based on the information provided, which of the following statements must be true?

- 1 ☐ All employees who like to work in BI also like to work in RI.
- 2 ☐ None of those employees who do not like to work in RE like to work in SD.
- 3 ☐ Those who like to work in SD may or may not like to work in TC.
- 4 ☐ None of those employees who like to work in RI do not like to work in HR.

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🔍 Answer key/Solution

Direction for questions 55 to 58: Answer the questions on the basis of the information given below.

Four players play 10 rounds, R1 through R10, of a game in such a manner that in every round each player gets a different rank from 1 to 4. Moreover a player gets each of the four ranks in at least two rounds and in at most three rounds, out of these 10 rounds. Following table gives us the rank obtained by each player in each of the 10 rounds. It also gives us the sum of the ranks got by the each player in the 10 rounds. Some values in the table have been replaced by letters intentionally.

Round	Player 1	Player 2	Player 3	Player 4
R1	3	A	B	1
R2	2	1	C	D
R3	4	E	F	2
R4	1	G	3	H
R5	I	1	4	J
R6	3	K	1	L
R7	M	N	2	4
R8	O	2	4	P
R9	Q	3	R	1
R10	S	4	T	2
Total	U	23	27	26

Q.55

What is the value of  $(B + C)$ ?

✕

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🔍 Answer key/Solution

Direction for questions 55 to 58: Answer the questions on the basis of the information given below.

Four players play 10 rounds, R1 through R10, of a game in such a manner that in every round each player gets a different rank from 1 to 4. Moreover a player gets each of the four ranks in at least two rounds and in at most three rounds, out of these 10 rounds. Following table gives us the rank obtained by each player in each of the 10 rounds. It also gives us the sum of the ranks got by the each player in the 10 rounds. Some values in the table have been replaced by letters intentionally.

Round	Player 1	Player 2	Player 3	Player 4
R1	3	A	B	1
R2	2	1	C	D
R3	4	E	F	2
R4	1	G	3	H
R5	I	1	4	J
R6	3	K	1	L
R7	M	N	2	4
R8	O	2	4	P
R9	Q	3	R	1
R10	S	4	T	2
Total	U	23	27	26

Q.56

What is the absolute difference between the values of J and P?

✕

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Direction for questions 55 to 58: Answer the questions on the basis of the information given below.

Four players play 10 rounds, R1 through R10, of a game in such a manner that in every round each player gets a different rank from 1 to 4. Moreover a player gets each of the four ranks in at least two rounds and in at most three rounds, out of these 10 rounds. Following table gives us the rank obtained by each player in each of the 10 rounds. It also gives us the sum of the ranks got by the each player in the 10 rounds.

Some values in the table have been replaced by letters intentionally.

Round	Player 1	Player 2	Player 3	Player 4
R1	3	A	B	1
R2	2	1	C	D
R3	4	E	F	2
R4	1	G	3	H
R5	I	1	4	J
R6	3	K	1	L
R7	M	N	2	4
R8	O	2	4	P
R9	Q	3	R	1
R10	S	4	T	2
Total	U	23	27	26

Q.57

If the value of M is 1, then what is the value of F?

✕

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🔍 Answer key/Solution

Direction for questions 55 to 58: Answer the questions on the basis of the information given below.

Four players play 10 rounds, R1 through R10, of a game in such a manner that in every round each player gets a different rank from 1 to 4. Moreover a player gets each of the four ranks in at least two rounds and in at most three rounds, out of these 10 rounds. Following table gives us the rank obtained by each player in each of the 10 rounds. It also gives us the sum of the ranks got by the each player in the 10 rounds. Some values in the table have been replaced by letters intentionally.

Round	Player 1	Player 2	Player 3	Player 4
R1	3	A	B	1
R2	2	1	C	D
R3	4	E	F	2
R4	1	G	3	H
R5	I	1	4	J
R6	3	K	1	L
R7	M	N	2	4
R8	O	2	4	P
R9	Q	3	R	1
R10	S	4	T	2
Total	U	23	27	26

**Q.58**

For how many rounds, out of the 10, is it possible to uniquely determine the rank of each and every player?

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 **Bookmark**

 **Answer key/Solution**

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Directions for questions 59 to 62 : Refer to the data below and answer the questions that follows:

Recently, six bollywood film actors - Varun, Siddharth, Ranveer, Ranbir, Farhan and Vicky - signed a movie project with six different directors - Abbas, Rakesh, Imitiaz, Zoya, Mastan and Suraj - not necessarily in the same order. With each actor, one actress out of six different actresses - Alia, Deepika, Priyanka, Anushka, Vidya and Kareena - signed for the similar project for 6 different movies - Abhimaan, Sholay 2, Badnasib, Farz, Don 3 and Naam - not necessarily in the same order.

Further details known to us are:

- I. Siddharth will work in a movie directed by Mastan but he signed the project with neither Kareena nor Anushka.
- II. Ranbir and Varun signed the project with neither Deepika nor Priyanka but they are going to work with the directors Abbas and Suraj respectively.
- III. Naam and Badnasib will feature Kareena and Deepika and the movie will be directed by Mastan and Zoya, in any order.
- IV. Farhan will work in Don 3 and Ranveer in Sholay 2.
- V. Farhan is not going to work with Rakesh.

---

Q.59

Vicky signed the movie project with which director?

---

1 ☐ Rakesh

---

2 ☐ Imitiaz

---

3 ☐ Zoya

---

4 ☐ Suraj



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FeedBack

 Bookmark

 Answer key/Solution

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Directions for questions 59 to 62 : Refer to the data below and answer the questions that follows:

Recently, six bollywood film actors - Varun, Siddharth, Ranveer, Ranbir, Farhan and Vicky - signed a movie project with six different directors - Abbas, Rakesh, Imtiaz, Zoya, Mastan and Suraj - not necessarily in the same order. With each actor, one actress out of six different actresses - Alia, Deepika, Priyanka, Anushka, Vidya and Kareena - signed for the similar project for 6 different movies - Abhimaan, Sholay 2, Badnasib, Farz, Don 3 and Naam - not necessarily in the same order.

Further details known to us are:

I. Siddharth will work in a movie directed by Mastan but he signed the project with neither Kareena nor Anushka.

II. Ranbir and Varun signed the project with neither Deepika nor Priyanka but they are going to work with the directors Abbas and Suraj respectively.

III. Naam and Badnasib will feature Kareena and Deepika and the movie will be directed by Mastan and Zoya, in any order.

IV. Farhan will work in Don 3 and Ranveer in Sholay 2.

V. Farhan is not going to work with Rakesh.

---

Q.60

Which movie was directed by Imtiaz?

---

1 ☐ Don 3

---

2 ☐ Sholay 2

---

3 ☐ Naam

---

4 ☐ Abhimaan



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FeedBack

🔖 Bookmark

🔍 Answer key/Solution



---

Directions for questions 59 to 62 : Refer to the data below and answer the questions that follows:

Recently, six bollywood film actors - Varun, Siddharth, Ranveer, Ranbir, Farhan and Vicky - signed a movie project with six different directors - Abbas, Rakesh, Imtiaz, Zoya, Mastan and Suraj - not necessarily in the same order. With each actor, one actress out of six different actresses - Alia, Deepika, Priyanka, Anushka, Vidya and Kareena - signed for the similar project for 6 different movies - Abhimaan, Sholay 2, Badnasib, Farz, Don 3 and Naam - not necessarily in the same order.

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- III. Naam and Badnasib will feature Kareena and Deepika and the movie will be directed by Mastan and Zoya, in any order.
- IV. Farhan will work in Don 3 and Ranveer in Sholay 2.
- V. Farhan is not going to work with Rakesh.

---

Q.61

If Vidya will work against Ranbir, then Anushka can be featured in which movie?

- 1 ☐ The one which will feature Ranveer
- 2 ☐ the one directed by Abbas
- 3 ☐ The one which will feature Siddharth
- 4 ☐ The one which will feature Vicky

---

FeedBack

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 Answer key/Solution

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Directions for questions 59 to 62 : Refer to the data below and answer the questions that follows:

Recently, six bollywood film actors - Varun, Siddharth, Ranveer, Ranbir, Farhan and Vicky - signed a movie project with six different directors - Abbas, Rakesh, Imtiaz, Zoya, Mastan and Suraj - not necessarily in the same order. With each actor, one actress out of six different actresses - Alia, Deepika, Priyanka, Anushka, Vidya and Kareena - signed for the similar project for 6 different movies - Abhimaan, Sholay 2, Badnasib, Farz, Don 3 and Naam - not necessarily in the same order.

Further details known to us are:

- I. Siddharth will work in a movie directed by Mastan but he signed the project with neither Kareena nor Anushka.
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- III. Naam and Badnasib will feature Kareena and Deepika and the movie will be directed by Mastan and Zoya, in any order.
- IV. Farhan will work in Don 3 and Ranveer in Sholay 2.
- V. Farhan is not going to work with Rakesh.

---

Q.62


If Vidya will work with neither Imtiaz nor Abbas, Farhan will not work with Anushka, and Abhimaan will feature neither Varun nor Alia, then which of the following is definitely false?

- 1 ☐ Farz will be directed by Suraj and will feature Vidya and Varun.
- 2 ☐ Ranbir will work with Anushka and Abbas, who directed movie Abhimaan.
- 3 ☐ Movie Abhimaan, to be directed by Suraj, will feature Anushka.
- 4 ☐ Vicky will be featured in the movie Badnasib, directed by Zoya.

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 Answer key/Solution

Directions for questions 63 to 66 : Refer to the data below and answer the questions that follows:

Municipal Corporation of a city calculates the Municipal Rental Value (MRV) for the calculation of tax on the income from house property and for calculating Municipal Tax for a year. MRV depends upon the cost of construction of the house and the value of the land in the ratio 2:1.

So, MRV of a house is given as,

$MRV = 10\% \text{ of } (2 \times \text{Total construction cost} + \text{Total value of the land}).$

Further, Municipal Tax is 10% of the MRV.

Some information about the 10 houses of a colony is as follows:

1. These are the only houses in the colony.
2. Area of each house in the colony is either 100 sq. meters or 200 sq. meters.
3. The value of the land of the houses varies between Rs. 1000 and Rs. 2000 per sq. meter and is an integer value.
4. Cost of construction of the houses varies between Rs. 500 and Rs. 1500 per sq. meter and is an integer value.

Following table provides us some extra information from the calculation books of Municipal Corporation about these houses of the colony:

Name of the Houses	MRV (in Rs.)	Municipal Tax (in Rs.)	Area of the House (in sq. meters)	Value of the land per sq. meter (in Rs.)	Construction cost per sq. meter (in Rs.)
Goel Villa		3650			1100
Arpan Ashiyana	51000		200		
Shanti Niketan	28000		100		
Nirankari Villa		3500			1000
Shanti Kunj				1500	
Megha Niketan		7600	200		
Vaibhav Villa		4400			
Raghav's House	52000				
Kiran Niketan	87000				
Panghat		5300			

Q.63

Which of the following can be the construction cost (per square meter) for the house 'Panghat'?

1 ☐ Rs. 900

2 ☐ Rs.850

3 ☐ Rs. 775

4 ☐ Rs. 925

Directions for questions 63 to 66 : Refer to the data below and answer the questions that follows:

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Nirankari Villa		3500			1000
Shanti Kunj				1500	
Megha Niketan		7600	200		
Vaibhav Villa		4400			
Raghav's House	52000				
Kiran Niketan	87000				
Panghat		5300			

Q.64

Municipal tax for "Shanti Kunj" is 3.5% of its total construction cost. Find the cost of construction per square meter (in Rs.) of 'Shanti Kunj'.

Directions for questions 63 to 66 : Refer to the data below and answer the questions that follows:

Municipal Corporation of a city calculates the Municipal Rental Value (MRV) for the calculation of tax on the income from house property and for calculating Municipal Tax for a year. MRV depends upon the cost of construction of the house and the value of the land in the ratio 2:1.

So, MRV of a house is given as,

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Nirankari Villa		3500			1000
Shanti Kunj				1500	
Megha Niketan		7600	200		
Vaibhav Villa		4400			
Raghav's House	52000				
Kiran Niketan	87000				
Panghat		5300			

Q.65

Which of the following is the value of the land (per sq. meter) for 'Goel Villa' ?

1 ☐ Rs.1200

2 ☐ Rs. 1000

3 ☐ Rs. 1640

4 ☐ Rs. 1450

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Answer key/Solution

Directions for questions 63 to 66 : Refer to the data below and answer the questions that follows:

Municipal Corporation of a city calculates the Municipal Rental Value (MRV) for the calculation of tax on the income from house property and for calculating Municipal Tax for a year. MRV depends upon the cost of construction of the house and the value of the land in the ratio 2:1.

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Following table provides us some extra information from the calculation books of Municipal Corporation about these houses of the colony:

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Nirankari Villa		3500			1000
Shanti Kunj				1500	
Megha Niketan		7600	200		
Vaibhav Villa		4400			
Raghav's House	52000				
Kiran Niketan	87000				
Panghat		5300			

Q.66

Which of the following house/houses will create problem in calculating the total area of all the ten houses of the colony?

- 
- 1 ☐ Goel Villa and Shanti Kunj
- 
- 2 ☐ Shanti Kunj and Vaibhav Villa
- 
- 3 ☐ Shanti Kunj only
- 
- 4 ☐ Vaibhav Villa and Megha Niketan
- 

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 Answer key/Solution

## Sec 3

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**Q.67**

Find the remainder when the number 1234567...5354 is divided by 32.

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- 1 ☐ 14
- 
- 2 ☐ 12
- 
- 3 ☐ 16
- 
- 4 ☐ 10
- 

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 Answer key/Solution

**Q.68**

In how many ways can 6 people sit on six chairs arranged in a row, such that Raju sits on the chair which is second from the left end, and Kat and Kaif are immediate neighbours of each other?

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 Answer key/Solution

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Q.69

Average of 5 consecutive 2 digit numbers is 36 less than the average of the 5 numbers formed by reversing the digits of those 5 numbers. If the difference between the largest number in both the cases is 54, then which of the following can be the sum of the original 5 numbers?

1 ☐ 125

2 ☐ 176

3 ☐ 110

4 ☐ 130

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 Answer key/Solution

Q.70

40 people can finish some work in 90 days. Each of these 40 people is equally efficient. On the first day only one of them worked. Second day onwards, two more people joined the group every day. In how many days will the work get over?



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 Answer key/Solution

Q.71

The centres of 3 circles, which touch each other externally, form a triangle of sides 14 cm, 18 cm and 20 cm. Find the radius of the smallest circle.

1 ☐ 7 cm

2 ☐ 6 cm

3 ☐ 8 cm

4 ☐ 12 cm





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🔍 Answer key/Solution

**Q.72**

0.abababab.....=  $c/d$ , where  $c$  and  $d$  are distinct single digits natural numbers which are relatively prime to each other. If  $a$  and  $b$  are also single digit whole numbers not necessarily distinct, then how many distinct values can the number  $ab$  assume?

1 ☐ 10

2 ☐ 11

3 ☐ 8

4 ☐ 9

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🔍 Answer key/Solution

**Q.73**

Under dynamic fare pricing of Rajdhani Express, first 25% of the total seats are booked at a discount of 20% of the fare. There is no discount on 26.66% of the remaining seats and hence booked on actual fare and the rest of the seats are booked at 40% extra. If only 90% of the seats are booked by passengers, then the revenue generated by this scheme is what percent more than the revenue generated when all the seats of Rajdhani Express were booked at the actual fare price.

1 ☐ 1%

2 ☐ 2%

3 ☐ 3%

4 ☐ 4%

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🔍 Answer key/Solution

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**Q.74**

The selling price of 20 apples is equal to the cost price of 28 apples, which in turn is equal to the discount offered on 20 apples. If on 20 apples markup percentage is reduced to its half and discount offered is made equivalent to the cost price of 10 apples, then find the profit or loss%.

- 1 ☐ 40% loss
- 2 ☐ 20% loss
- 3 ☐ 20% profit
- 4 ☐ 40% profit

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 **Answer key/Solution**

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**Q.75**

In a village 'X', the ratio of male to female population is 1 : 3, whereas in another village 'Y', the ratio of male to female population is 4 : 5. If the ratio of male population to the female population of both the villages taken together is 2 : 3, then find the ratio of males in village X to males in village Y.

- 1 ☐ 1 : 6
- 2 ☐ 1 : 4
- 3 ☐ 2 : 3
- 4 ☐ Cannot be determined

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 **Answer key/Solution**

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**Q.76**

The concentration of alcohol in two different bottles of wine is a% and b% such that a and b are in ratio 7 : 2. When both are mixed in equal quantities, 63% of alcohol is formed. In what ratio should we mix the content of two bottles to make a 56% alcohol solution?

1 ☐ 6 : 5

2 ☐ 2 : 3

3 ☐ 7 : 5

4 ☐ 9 : 4

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 Answer key/Solution

**Q.77**

Find the average of the following series:

$$1 \times 2 \times 3 \times 4 + 2 \times 3 \times 4 \times 5 + 3 \times 4 \times 5 \times 6 + \dots + 11 \times 12 \times 13 \times 14$$

1 ☐ 6552

2 ☐ 7801

3 ☐ 15514

4 ☐ 32760

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 Answer key/Solution

**Q.78**

There are two inlet pipes P and Q and one outlet pipe R, connected to a tank. P and Q can fill the tank in 10 and 12 minutes respectively while R can empty it in 15 minutes. Inlet pipe P was opened for first two minutes and then closed and now Q was opened. After 7 minutes from then it was observed that outlet pipe R was left open from the beginning. On realizing this, R was closed immediately. In how much more time will Q fill the tank?

1 ☐  $9\frac{3}{5}$  minutes

2 ☐  $9\frac{4}{5}$  minutes

3 ☐  $10\frac{1}{5}$  minutes

4 ☐  $10\frac{2}{5}$  minutes



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 Answer key/Solution

**Q.79**

A car travels three distances, in ratio 1 : 2 : 3, at the speed of 20 kmph, 30 kmph and 50 kmph respectively. Find the average speed (in kmph) of the journey.

1 ☐ 1800/41

2 ☐ 1800/43

3 ☐ 1800/47

4 ☐ 1800/53



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 Answer key/Solution

**Q.80**

Find the radius (up to one decimal places) of the circle which passes through the points having coordinates (2,3), (2,6) and (6,3).

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 Answer key/Solution

Q.81

Maximum how many terms of the progression: 2, 5, 8,.... can be considered, if the sum of the progression has to be less than 3000.



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Answer key/Solution

Q.82

If T is a 2-digit number, then find the probability of T leaving the remainder as 2 when divided by 4.

1 ☐ 11/45

2 ☐ 17/45

3 ☐ 29/90

4 ☐ 23/90



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Answer key/Solution

Q.83

A person who has a certain amount of money with him goes to market. He can buy 50 oranges or 40 mangoes with that money. But he retains 10% of the amount for taxi fare and buys 20 mangoes and some oranges from the remaining amount. Find the number of oranges purchased by him.



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Answer key/Solution

Q.84

If  $p$  and  $q$  are the roots of the equation  $x^2 + bx + c = 0$ , where  $c < 0 < b$  and  $p < q$ , then

1 ☐  $0 < p < q$

2 ☐  $p < 0 < q < |p|$

3 ☐  $p < q < 0$

4 ☐  $p < 0 < |p| < q$

Feedback

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 Answer key/Solution

Q.85

In how many ways can 5 identical balls be distributed among 5 identical boxes such that any box can have any number of balls?

1 ☐  $5^5$


2 ☐ 1

3 ☐ 7

4 ☐  ${}^9C_4$

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 Answer key/Solution

Q.86

Three series are as follows:

$$S_1 = 2 + 5 + 8 + 11 + \dots + 452$$

$$S_2 = 3 + 7 + 11 + 15 + \dots + 603$$

$$S_3 = 5 + 11 + 17 + 23 + \dots + 515$$

Find the sum of all the terms which are common in the 3 series.

1 ☐ 8399

2 ☐ 8447

---

3 ☐ 15059

---

4 ☐ 8272

---

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 **Answer key/Solution**

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**Q.87**

A fruit seller gives a discount on apples equivalent to the 25 % of the selling price of apples and this selling price gives him a profit of  $16\frac{2}{3}\%$  when calculated on S.P. By what percentage did he mark up the price of the apples before offering the discount?

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 **Answer key/Solution**

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**Q.88**

If  $\left[\frac{x}{5}\right] = \left[\frac{x}{7}\right]$ , where  $[a]$  represents the greatest integer less than or equal to  $a$  and  $x$  is a natural number, then how many values can  $x$  take?

---

1 ☐ 8

---

2 ☐ 11

---

3 ☐ 10

---

4 ☐ 9

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 **Bookmark**

 **Answer key/Solution**

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Q.89

An ant is sitting on a vertex of a cube of edge 'a' units. Find the minimum distance that ant has to travel in order to reach the vertex at the other end of the body diagonal from this vertex. (Note- the Ant cannot fly).

1 ☐  $(\sqrt{2} + 1) a$

2 ☐  $a\sqrt{5}$

3 ☐  $2\sqrt{3} a$

4 ☐  $3a$



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🔍 Answer key/Solution

Q.90

A circle is inscribed in a quadrilateral ABCD. If AB = 9 units, BC = 11 units and CD = 12 units, then find AD.

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🔍 Answer key/Solution

Q.91

Let x, y and z are three distinct positive integers such that x and y are odd and z is even. Which one of the following statements cannot be true?

1 ☐  $(x - z)^2 y$  is even

2 ☐  $(x - z) y^2$  is odd

3 ☐  $(x + y)^3 z$  is even

4 ☐  $(x - y)^2 z$  is even





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🔍 Answer key/Solution

Q.92

The circumference of the front wheel of a cart is 30 ft and that of the back wheel is 36 ft. What is the distance (in ft) travelled by the cart when the front wheel has done five more revolutions than the back wheel?



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🔍 Answer key/Solution

Q.93

If one root of  $x^2 + px + 12 = 0$  is 4 and an other equation  $x^2 + px + q = 0$  has equal roots, then the value of q is

1 ☐ 49/4

2 ☐ 4/49

3 ☐ 4

4 ☐ 1/4



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🔍 Answer key/Solution

Q.94

What is the sum of all possible prime numbers, which are denoted by p, such that  $(p^2 + 11)$  has exactly six different positive divisors (including 1 and the number itself)?

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Q.95

If A and B are two natural numbers such that

$\text{LCM}(A, B) = 2^4 \times 5^3 \times 7^4$  and  $\text{LCM}(8A, 25B) = 2^4 \times 5^3 \times 7^4$ , then how many values can A take?

1 ☐ 10

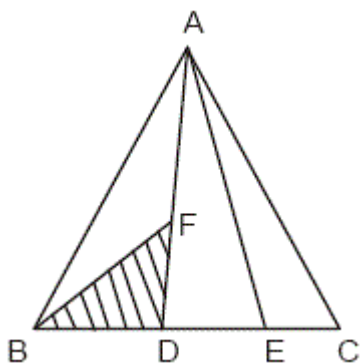
2 ☐ 1

3 ☐ 5

4 ☐ Data Inconsistent

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Q.96



In a triangle ABC, D and E are points on BC such that  $BD : DE : EC = 2 : 2 : 1$  and F is a point on AD such that  $AF : FD = 3 : 1$ , as shown in the figure above. Find the ratio of the area of the triangle (BFD) to the area of the triangle (ABC).

1 ☐ 1 : 4

2 ☐ 2 : 5

3 ☐ 1 : 10

4 ☐ None of these

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🔍 Answer key/Solution

Q.97

Two trains running in opposite directions cross a man in 40 seconds and 28 seconds respectively. The two trains cross each other in 38 seconds. The ratio of the lengths of the two train is

1 ☐ 10 : 7

2 ☐ 50 : 7

3 ☐ 10 : 3

4 ☐ 34 : 33

✖

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🔍 Answer key/Solution

Q.98

If a, b, c are positive real numbers and  $abc = 27$ , then the minimum value of

is

$$\frac{a^6 + b^6}{a^4 - a^2b^2 + b^4} + \frac{b^6 + c^6}{c^4 - b^2c^2 + b^4} + \frac{c^6 + a^6}{c^4 - c^2a^2 + a^4}$$

1 ☐ 54

2 ☐ 36

3 ☐ 27

4 ☐ 18

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🔍 Answer key/Solution

Q.99

Find the value of the following function:

$$\log_2 3 \times \log_3 4 \times \log_4 5 \times \dots \times \log_{19} 20.$$

1 ☐  $1 + \log 2$

2 ☐  $2 + (\log 2)^{-1}$

3 ☐  $2 + \log 2$

4 ☐  $1 + (\log 2)^{-1}$

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🔍 Answer key/Solution

Q.100

A sum of money amounts to Rs. 5120 in 3 years and to Rs. 7290 in 6 years at certain rate of compound interest, compounded annually. Find the rate of interest.

1 ☐ 7.5%

2 ☐ 12.5%

3 ☐ 10%

4 ☐ 15%



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🔍 Answer key/Solution