English Language

Q.1 Read the following passage and answer the questions based on the information provided in the passage.

At the height of the Syrian and Rohingya crises, much of the world's attention turned to forced displacement and refugees. Both exemplified the typical conditions under which people are forcibly displaced: war, political persecution, economic instability and repression. Still, most of the world's migration is internal, i.e. within the same country. Among the tens of millions displaced in 2015, 21.3 million were refugees, but 40.8 million were internally displaced. People usually change their homes to improve household income, for marriage or other purposes relating to family. With climate change, however, its worsening slow onset effects such as droughts, effects from sea level rise and water shortages will cause many more to leave their homes and move to safer places. Such migration may be a choice in the initial stages; for instance, a young member may travel to a city close by during a drought to increase his or her family's income. But as the stress becomes more **severe**, the decision to move may be forced.

In "Groundswell: Preparing for Internal Climate Migration", a recent report by the World Bank, it is estimated that in Latin America, South Asia and Sub-Saharan Africa over 143 million people would be forced to move within borders by 2050 as a result of slow onset climate events alone. The report dives deep into the conditions in Ethiopia, Bangladesh and Mexico. Three possible scenarios are described: high greenhouse gas (GHG) emissions along with unequal development paths, regarded as the pessimistic reference scenario; an inclusive development scenario with high GHG emissions but development paths that improve access to services for the poor and consider their priorities and unmet needs; and a climate-friendly scenario involving lower GHG emissions but with unequal development. South Asia is characterised by rain-fed farmland in large parts of the region. With variability in the monsoons and warmer temperatures, crop failures will lead to migration from the Gangetic plains and from the rice-growing northeast of Bangladesh and the inundated coasts. In the pessimistic scenario, the numbers forced to move internally in South Asia are expected to increase six-fold between 2020 and 2050 and will continue to rise beyond 2050 without appropriate climate action. Even in the inclusive development and climate-friendly scenarios, tens of millions will be forced to migrate. While people normally gravitate to big cities, those along the coast such as Mumbai, Chennai, Chittagong and Dhaka will themselves be vulnerable to storm surges and other effects from sea level rise.

The poor would be the worst affected by these slow onset events and most of them would migrate out of rural areas to nearby urban settlements, which would be cities and the peri-urban surroundings. Such "hotspots" of in and out migration would be stressed for natural resources, public services and livelihoods. In India, there are already signs of unplanned and frontier-led growth in peri-urban areas. Past experience shows that planning that ignores the ecosystem services provided by local natural resources such as water tanks and forested areas generates further problems particularly for the poorest and most vulnerable. The implications of these internal migrations will be significant for development in the areas and for the lives of these people. Therefore, understanding migration patterns, getting better socioeconomic data on migration and preparing in advance through appropriate

planning become critical. The scenarios used in the Bank report could be extended to cover other time periods and could also be more localised. Current climate modelling methods are not **accurate** at high resolutions for local decision-making, but these are expected to improve over time.

How can climate affect rise in number of migrants?

        1. catastrophes like droughts might become frequent

        2. an increased sea level may affect the population

        3. scarcity of resources like water might force the movement

        4. both (b) and (c)

        5. all are correct

Ans -5

Solution: To validate the answer, refer to the lines, " *With climate change, however, its worsening slow onset effects such as droughts, effects from sea level rise and water shortages will cause many more to leave their homes and move to safer places*." Referring to the quoted text, we can infer that all the given statements are correct. Hence, option (e) is the most suitable answer choice.

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Which of the following can be listed as reason for migration from submerged coasts and areas suitable for rice growth?

1. limited services such as health and education

2. ignoring issues of social justice and equity

3. lack of consistency in the pattern of monsoon and higher temperatures

4. all are correct

5. all are incorrect

Ans -3

Solution: To validate the answer, refer to the lines, " *With variability in the monsoons and warmer temperatures, crop failures will lead to migration from the Gangetic plains and from the rice-growing northeast of Bangladesh and the inundated coasts."* Referring to the quoted text, we can infer that the statement given in option (c) is the most suitable answer choice.
Inundated- flooded/ submerged

Q.3 Read the following passage and answer the questions based on the information provided in the passage.

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Which of the following isn't a probable situation, as described in the report by World Bank?

        1. high emissions of greenhouse gases but a just treatment towards poor

        2. unfair growth along with high emissions of greenhouse gases

        3. locals and migrants would have to become a focal point with temperatures constantly rising

        4. growth that favours climate but is accompanied by unbalanced development

        5. all are correct

Ans -3

Solution: To validate the answer, refer to the lines, " *high greenhouse gas (GHG) emissions along with unequal development paths, regarded as the pessimistic reference scenario; an inclusive development*

scenario with high GHG emissions but development paths that improve access to services for the poor and consider their priorities and unmet needs; and a climate-friendly scenario involving lower GHG emissions but with unequal development." Among the given statements, only (c) cannot be validated from the quoted text. Hence, option (c) is the most suitable answer choice.

Q.4 Read the following passage and answer the questions based on the information provided in the passage.

At the height of the Syrian and Rohingya crises, much of the world's attention turned to forced displacement and refugees. Both exemplified the typical conditions under which people are forcibly displaced: war, political persecution, economic instability and repression. Still, most of the world's migration is internal, i.e. within the same country. Among the tens of millions displaced in 2015, 21.3 million were refugees, but 40.8 million were internally displaced. People usually change their homes to improve household income, for marriage or other purposes relating to family. With climate change, however, its worsening slow onset effects such as droughts, effects from sea level rise and water shortages will cause many more to leave their homes and move to safer places. Such migration may be a choice in the initial stages; for instance, a young member may travel to a city close by during a drought to increase his or her family's income. But as the stress becomes more **severe**, the decision to move may be forced.

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Which of the following contrast have been mentioned in the given passage?

1. Rights for those who are forced to migrate would be fundamental in the preparations made to combat climate changes

2. Although people tend to migrate to bigger cities but those located along the coast might themselves be at risk

3. While integrating internal migration with ongoing development planning is vital, the governments are heedless to the situation.

4. both (a) and (b)

5. none of these

Ans -2

Solution: To validate the answer, refer to the lines, " *While people normally gravitate to big cities, those along the coast such as Mumbai, Chennai, Chittagong and Dhaka will themselves be vulnerable to storm surges and other effects from sea level rise*." Referring to the quoted text, we can infer that the statement given in option (b) is correct in context of the given question. Hence, option (b) is the most suitable answer choice.

Q.5 Read the following passage and answer the questions based on the information provided in the passage.

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Which of the following measures have been suggested by the writer to subdue the impacts of internal migration?
(i) improved statistics related to migration
(ii) realizing the patterns of migration
(iii) planning well in advance

1. all (i), (ii), (iii)

2. both (ii) and (iii)

3. both (i) and (iii)

4. only (ii)

5. only (iii)

Ans -1

Solution: To validate the answer, refer to the lines, " *Therefore, understanding migration patterns, getting better socioeconomic data on migration and preparing in advance through appropriate planning become critical.*" Referring to the quoted text, we can infer that all the given statements are correct. Hence, option (a) is the most suitable answer choice.

Q.6 Read the following passage and answer the questions based on the information provided in the passage.

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Which of the following statement is incorrect in context of the information available in the given passage?

           1. majority of the migration in world is within the same countries

2. places which are prominent for internal migration may face shortages of natural resources, public services and livelihoods

3. not taking into consideration ecosystem while planning for climate effects mitigation may create further problems for the unguarded section of society

4. both (a) and (b)

5. all are correct

Ans -5

Solution: All the given statements are correct in context of the given passage. Hence, option (e) is the most suitable answer choice.

Q.7 Read the following passage and answer the questions based on the information provided in the passage.

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Among the given words, which of the following means similar to **'SEVERE'**, as highlighted in the given passage?

        1. effeminate

        2. disseminating

        3. indigenous

        4. acute

        5. none of these

Ans -4

Solution: Among the given words, **'acute'** which means *'(of an unpleasant or unwelcome situation or phenomenon) present or experienced to a severe or intense degree'* is similar in meaning to 'sever'. Hence, option (d) is the most suitable answer choice.

effeminate- (of a man) having characteristics regarded as typical of a woman; unmanly
disseminating- spread (something, especially information) widely
indigenous- originating or occurring naturally in a particular place; native

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Among the given words, which of the following is opposite to **ACCURATE**, as highlighted in passage?

    1. culpable

    2. inexact

    3. vulnerable

    4. wrenched

    5. none of these

Ans -2

Solution: Among the given options, ' **inexact**' which means ' *not quite accurate or correct*' is opposite to 'accurate'. Hence, option (b) is the most suitable answer choice. Culpable: deserving blame. Vulnerable: exposed to the possibility of being attacked or harmed, either physically or emotionally.
Wrenched: pull or twist suddenly and violently

Q.9 In each of the given questions, few words have been highlighted. One of the highlighted words may be incorrectly spelt. Identify the word that has been spelt incorrectly and mark that as your answer. If none of the highlighted words have been spelt incorrectly, mark option 'e', all are correct, as your answer.

These are among the many **guidelines** the Assam Forest Department has **issued** to **sensities** the public about "free- **ranging**" wild animals

1. guidelines

2. issued

3. sensities

4. ranging

5. all are correct

Ans -3

Solution: Among the given highlighted words, 'sensitise' has been incorrectly spelt as 'sensities'. Therefore, the most suitable answer choice will be option (c).
Sensitise: to respond to certain stimuli; make sensitive.

Q.10 In each of the given questions, few words have been highlighted. One of the highlighted words may be incorrectly spelt. Identify the word that has been spelt incorrectly and mark that as your answer. If none of the highlighted words have been spelt incorrectly, mark option 'e', all are correct, as your answer.

What has **changed** post lockdown is the **frequencee** of **sightings** and the **distances** the animals cover

1. changed

2. frequencee

3. sightings

4. animals

5. all are correct

Ans -2

Solution: Among the given highlighted words, 'frequency' has been incorrectly spelt as 'frequencee'. Therefore, the most suitable answer choice will be option (b).
Frequency: the rate at which something occurs over a particular period of time or in a given sample.

Q.11 In each of the given questions, few words have been highlighted. One of the highlighted words may be incorrectly spelt. Identify the word that has been spelt incorrectly and mark that as your answer. If none of the highlighted words have been spelt incorrectly, mark option 'e', all are correct, as your answer.

The Prime Minister **reviewed** countrywide **prepairedness** regarding the **availability** of hospitals, proper **isolation** and quarantine facilities.

1. reviewed

2. prepairedness

3. availability

4. isolation

5. all are correct

Ans -2

Solution: Among the given highlighted words, 'preparedness' has been incorrectly spelt as 'prepairedness'. Therefore, the most suitable answer choice will be option (b).
Preparedness: a state of readiness, especially for war.

Q.12 In each of the given questions, few words have been highlighted. One of the highlighted words may be incorrectly spelt. Identify the word that has been spelt incorrectly and mark that as your answer. If none of the highlighted words have been spelt incorrectly, mark option 'e', all are correct, as your answer.

The Directorate General of Foreign Trade (DGFT) put **curbs** on **exports** of **daignostic** kits with immediate **effect**.

1. curbs

2. exports

3. daignostic

4. effect

5. all are correct

Ans -3

Solution: Among the given highlighted words, 'diagnostic' has been incorrectly spelt as 'daignostic'. Therefore, the most suitable answer choice will be option (c).
Diagnostic: the identification of the nature of an illness or other problem by examination of the symptoms.

Q.13 In each of the given questions, few words have been highlighted. One of the highlighted words may be incorrectly spelt. Identify the word that has been spelt incorrectly and mark that as your answer. If none of the highlighted words have been spelt incorrectly, mark option 'e', all are correct, as your answer.

The Centre is **considering** extending the **nationwide** lockdown in order to **stem** the **transmision** of COVID-19.

1. considering

2. nationwide

3. stem

4. transmision

5. all are correct

Ans -4

Solution: Among the given highlighted words, 'transmission' has been incorrectly spelt as 'transmision'. Therefore, the most suitable answer choice will be option (d).
Transmission: the action or process of transmitting something or the state of being transmitted.

Q.14 In the following questions, a grammatically correct and meaningful sentence is given which is divided into four parts, (A),(B),(C) and (D). You have to arrange the four parts to make a contextually and grammatically meaningful sentence (the meaning can be different from the one given in the question). If no such rearrangement is possible mark (E) as your answer i.e. 'No rearrangement is possible'.

among the many hazards that diplomats (A)/ is expulsion, also known as declaration (B)/ face today, the most ancient one (C)/ of a diplomat as persona non grata (D)

1. BCDA

2. CBDA

3. ACBD

4. DCAB

5. No rearrangement is possible

Ans -3

Solution: The correct rearrangement of the given phrases will be 'ACBD'. Hence, option (c) is the most suitable answer choice.

Q.15 In the following questions, a grammatically correct and meaningful sentence is given which is divided into four parts, (A),(B),(C) and (D). You have to arrange the four parts to make a contextually and grammatically meaningful sentence (the meaning can be different from the one given in the question). If no such rearrangement is possible mark (E) as your answer i.e. 'No rearrangement is possible'.

over 100 Russian diplomats by more than (A)/ the recent coordinated expulsion of (B)/ 20 countries is huge even by the (C)/ standards of the coldest days of the Cold War (D)

1. DBAC

2. DACB

3. BACD

4. BCAD

5. No rearrangement is possible

Ans -3

Solution: The correct rearrangement of the given phrases will be 'BACD'. Hence, option (c) is the most suitable answer choice.

Q.16 In the following questions, a grammatically correct and meaningful sentence is given which is divided into four parts, (A),(B),(C) and (D). You have to arrange the four parts to make a contextually and grammatically meaningful sentence (the meaning can be different from the one given in the question). If no such rearrangement is possible mark (E) as your answer i.e. 'No rearrangement is possible'.

attempted murder, but responded (A)/ with expulsions symmetrically in (B)/ Russia had denied any hand in the (C)/ accordance with diplomatic practice (D)

1. BADC

2. BCDA

3. CBDA

4. CABD

5. No rearrangement is possible

Ans -4

Solution: The correct rearrangement of the given phrases will be 'CABD'. Hence, option (d) is the most suitable answer choice.

Q.17 In the following questions, a grammatically correct and meaningful sentence is given which is divided into four parts, (A),(B),(C) and (D). You have to arrange the four parts to make a contextually and grammatically meaningful sentence (the meaning can be different from the one given in the question). If no such rearrangement is possible mark (E) as your answer i.e. 'No rearrangement is possible'.

in the Russian embassies will be filled (A)/ slowly and gradually, the vacant posts (B)/ and diplomats will (C)/ return to their posts in Moscow (D)

1. ABDC

2. BACD

3. CABD

4. BADC

5. No rearrangement is possible

Ans -2

Solution: The correct rearrangement of the given phrases will be 'BACD'. Hence, option (b) is the most suitable answer choice.

Q.18 In the following questions, a grammatically correct and meaningful sentence is given which is divided into four parts, (A),(B),(C) and (D). You have to arrange the four parts to make a contextually and grammatically meaningful sentence (the meaning can be different from the one given in the question). If no such rearrangement is possible mark (E) as your answer i.e. 'No rearrangement is possible'.

China and India, wanted concrete (A)/ evidence about Russian complicity (B)/ majority of nations in the world, including (C)/ Russia gloated over the fact that a (D)

1. DBCA

2. DCAB

3. CABD

4. CDBA

5. No rearrangement is possible

Ans -2

Solution: The correct rearrangement of the given phrases will be 'DCAB'. Hence, option (b) is the most suitable answer choice.

Q.19 Read each of the following four sentences to find out whether there is any grammatical mistake/error in it. Choose the sentence with grammatical error as the correct answer. If all the given sentences are grammatically correct then choose "All are correct".

1. It is true that rising inequality has adverse economic and social consequences

2. Data and data science have suddenly emerged into the spotlight.

3. The Gini coefficient or other measures of inequality are being used to examine trends in inequality.

4. India can sure become the world's skill capital but not with what it is doing right now.

5. All are correct

Ans -4

Solution: Among the given statements, the error lies in statement given in option (d) where 'surely' must replace 'sure' to make the statement grammatically correct. Hence, option (d) is the most suitable answer choice.

Q.20 Read each of the following four sentences to find out whether there is any grammatical mistake/error in it. Choose the sentence with grammatical error as the correct answer. If all the given sentences are grammatically correct then choose "All are correct".

1. The first policy step should be towards unification of the entire VET system.

2. In essence, science is the organised method developed to understand nature.

3. The messaging on the economy could have been clearer and consistent.

4. Reason constructs hypotheses and these are tested for consistency against logic and fact.

5. All are correct

Ans -3

Solution: Among the given statements, the error lies in statement given in option (c) where instead of 'consistent' we will use 'more consistent' to maintain parallelism because here 'clear' is in its comparative degree. Hence, option (c) is the most suitable answer choice.

Q.21 Read each of the following four sentences to find out whether there is any grammatical mistake/error in it. Choose the sentence with grammatical error as the correct answer. If all the given sentences are grammatically correct then choose "All are correct".

1. Income and wealth inequalities are much higher than consumption inequality.

2. The importance of Form 27 on the question of access for health cannot be underestimated.

3. All the five people on board had died in the crash.

4. Even if the Gini coefficient remains the same or picks up, the poverty ratio can decline.

5. All are correct

Ans -2

Solution: Among the given statements, the error lies in statement (b) where 'access to' will replace 'access for' to make the statement grammatically correct. Hence, option (b) is the most suitable answer choice.

Q.22 Read each of the following four sentences to find out whether there is any grammatical mistake/error in it. Choose the sentence with grammatical error as the correct answer. If all the given sentences are grammatically correct then choose "All are correct".

1. Modernism in the early 20th century was fighting to free itself from the Victorian era's corsets.

2. ISRO's mission aimed to place the communication satellite, GSAT-6A, in space.

3. The data base for computing income inequality is not as solid the base for consumption expenditure.

4. There is no doubt that inequality in itself has several undesirable consequences.

5. All are correct

Ans -3

Solution: Among the given statements, the error lies in statement (c) where 'as solid' will replaced 'as solid as' because to compare two things that are the same or equal the correct structure is 'as+ adjective+ as'. Hence, option (c) is the most suitable answer choice.

Q.23 Read each of the following four sentences to find out whether there is any grammatical mistake/error in it. Choose the sentence with grammatical error as the correct answer. If all the given sentences are grammatically correct then choose "All are correct".

1. Salvaging the Indian demographic dividend must be a key part of India's growth story.

2. Human beings need a certain minimum consumption of food and non-food items to survive.

3. There are many approaches for poverty measurement.

4. Space science is exciting not just for the experts, but to much outside the field.

5. All are correct

Ans -4

Solution: Among the given statements, the error lies in statement (d) where 'much' must be replaced with 'many' because we use many with plural count nouns to indicate a large number. Hence, option (d) is the most suitable answer choice.

Q.24 In each of the following questions, a sentence is given with a highlighted phrase. There are four idioms given below each sentence, one out of which can be used in the to replace the highlighted idiom to form a meaningful sentence. Choose the most appropriate idiom among the options that makes the sentence contextually meaningful. Also, if the highlighted idiom is correct, mark 'e' as your answer.

The Late Show is a funny and witty show, with an unusual host who has the **donkey's year**.

1. lion's share

2. black sheep

3. word of mouth

4. gift of the gab

5. no replacement required

Ans -4

Solution: Among the given idioms, the options, 'gift of gab' can successfully replace 'donkey's year'.
Hence, option (d) is the most suitable answer choice.
Donkey's year: a long time
Gift of gab: able to speak easily and confidently, and to persuade people
Lion's share: major share of something
Black sheep: odd or disreputable member of a group, especially within a family
Word in mouth: information that is passed orally from person to person in an informal manner

Q.25 In each of the following questions, a sentence is given with a highlighted phrase. There are four idioms given below each sentence, one out of which can be used in the to replace the highlighted idiom to form a meaningful sentence. Choose the most appropriate idiom among the options that makes the sentence contextually meaningful. Also, if the highlighted idiom is correct, mark 'e' as your answer.

Like a **white elephant**, the knight came out of nowhere and won the joust.

      1. cock and bull story

      2. dark horse

      3. fish out of water

      4. bull in china shop

      5. no replacement required

Ans -2

Solution: Among the given idioms, the options, 'dark horse' can successfully replace 'white elephant'.
Hence, option (b) is the most suitable answer choice.
White elephant- Burdensome possession
Dark horse- an unknown and unexpected winner
Cock and bull story- a story or explanation which is obviously not true
Fish out of water- not feel comfortable or relaxed because you are in an unusual or unfamiliar situation
Bull in china shop- a person who breaks things or who often makes mistakes or causes damage in situations that require careful thinking or behavior

Q.26 In each of the following questions, a sentence is given with a highlighted phrase. There are four idioms given below each sentence, one out of which can be used in the to replace the highlighted idiom to form a meaningful sentence. Choose the most appropriate idiom among the options that makes the sentence contextually meaningful. Also, if the highlighted idiom is correct, mark 'e' as your

answer.

Joe and Mary are a couple who share **weal and woe**.

       1. far and near

       2. spic and span

       3. hole and corner

       4. hard and fast

       5. no replacement required

Ans -5

Solution: The highlighted idiom is correct in context of the given statement. Hence, option (e) is the most suitable answer choice.
weal and woe- joy and sorrow
far and near- everywhere
spic and span- neat, clean, and well looked after
hole and corner- attempting to avoid public notice; secret
hard and fast- (of a rule or a distinction made) fixed and definitive

Q.27 In each of the following questions, a sentence is given with a highlighted phrase. There are four idioms given below each sentence, one out of which can be used in the to replace the highlighted idiom to form a meaningful sentence. Choose the most appropriate idiom among the options that makes the sentence contextually meaningful. Also, if the highlighted idiom is correct, mark 'e' as your answer.

You have to **hang fire** and acknowledge the corruption built into this system!

1. hit below the belt

2. give them a rope

3. call a spade a spade

4. blow your trumpet

5. no replacement required

Ans -4

Solution: Among the given idioms, the options, 'call a spade a spade' can successfully replace 'hang fire'. Hence, option (c) is the most suitable answer choice.
hang fire- delay or be delayed in taking action or progressing
call a spade a spade- speak plainly without avoiding unpleasant or embarrassing issues
blow your trumpet- talk boastfully about one's achievements
give them a rope- to allow someone freedom of action in the expectation that that person will overreach himself or herself
hit below the belt- to say something that is often too personal, usually irrelevant, and always unfair

Q.28 In each of the following questions, a sentence is given with a highlighted phrase. There are four idioms given below each sentence, one out of which can be used in the to replace the highlighted idiom to form a meaningful sentence. Choose the most appropriate idiom among the options that makes the sentence contextually meaningful. Also, if the highlighted idiom is correct, mark 'e' as your answer.

Rita likes to keep everything in **apple of discord**.

1. polish apple

2. apple - pie orders

3. a lemon

4. second banana

5. no replacement required

Ans -2

Solution: Among the given idioms, the options, 'apple - pie orders' can successfully replace 'apple in discord'. Hence, option (b) is the most suitable answer choice.
in apple - pie orders- arranged neatly or perfectly
apple of discord- anything causing trouble, discord, or jealousy
polish apple- win favor through flattery
a lemon- something you buy that is defective
second banana- By extension, someone who occupies a secondary, lesser, or subservient role or position

Q.29 A word has been given in each question and has been used in the sentences given below. Identify the statements where the word has been used in a contextually and grammatically correct manner. If the word has been used incorrectly in all the statements, mark (E), "None of these", as your answer. The may or may not be used in similar form as given in the statement. (Eg: argue can be used as argued)

COMPLEMENT
(i) To be trusted is a greater **complement** than to be loved.
(ii) Strawberries and cream **complement** each other perfectly.
(iii) The green wall-paper is the perfect **complement** to the old pine of the dresser.

1. only (i)

2. both (i) & (iii)

3. both (ii) & (iii)

4. all (i), (ii), (iii)

5. none of these

Ans -3

Solution: Among the given statements, 'complement' has been used correctly in statements (ii) and (iii). In the statement (i), 'complement' must be replaced with 'compliment'. Hence, option (c) is the most suitable is the most suitable answer choice.
Complement- a thing that contributes extra features to something else in such a way as to improve or emphasize its quality
Compliment- a polite expression of praise or admiration

Q.30 A word has been given in each question and has been used in the sentences given below. Identify the statements where the word has been used in a contextually and grammatically correct manner. If the word has been used incorrectly in all the statements, mark (E), "None of these", as your answer. The may or may not be used in similar form as given in the statement. (Eg: argue can be used as argued)

BARREN
(i) The years of growing cotton had made the land completely **barren.**
(ii) The sports hall was a rather **barren** concrete building.
(iii) After the bomb blast, the land around the area was completely **barren**.

1. only (i)

2. only (ii)

3. both (ii) & (iii)

4. all (i), (ii), (iii)

5. none of these

Ans -4

Solution: In all the given statements, 'barren' has been used correctly. Hence, option (d) is the most suitable answer choice.
Barren- showing no results or achievements; unproductive

Quantitative Aptitude

Q.31 Find the approximate value of (?) in the following questions.

$$44.98\% \text{ of } 160.01 + \sqrt{6240} = (?)^2 + 6.99$$

1. 9

2. 12

3. 11

4. 8

5. 13

Ans -2

Solution:

$$\frac{45}{100} \times 160 + \sqrt{6241} = ?^2 + 7$$
$$?^2 = 72 + 79 - 7$$
$$? = 12$$

Q.32 Find the approximate value of (?) in the following questions.

$$\frac{14.99}{43.01} \ of \ 257.98 + \sqrt[3]{1727} + \sqrt{7745} = ?$$

1. 190

2. 195

3. 186

4. 182

5. 199

Ans -1

Solution:
$$? = \frac{15}{43} \times 258 + 12 + 88$$
$$? = 190$$

Q.33 Find the approximate value of (?) in the following questions.

1298.01 + 7.01% of 699.99 =? + 19.9% of 1055.01

        1. 1120

        2. 1143

        3. 1149

        4. 1128

        5. 1136

Ans -5

Solution:
$$1298 + \frac{7}{100} \times 700 = ? + \frac{20}{100} \times 1055$$
$$? = 1347 - 211$$
$$? = 1136$$

Q.34 Find the approximate value of (?) in the following questions.

$$111.01 + 1111.001 + 11.01 + 11111.001 = ?$$

1. 12434

2. 12324

3. 12334

4. 12344

5. 12444

Ans -4

Solution:
$? = 111 + 1111 + 11 + 11111$
$? = 12344$

Q.35 Find the approximate value of (?) in the following questions.

$?\% \text{ of } 899.99 + 499.99 = 3.99 \times 197.01$
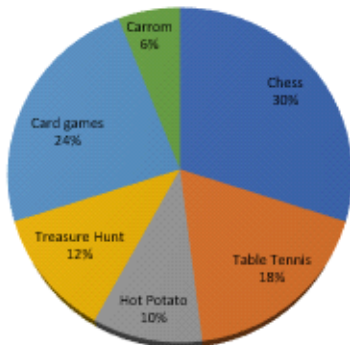
1. 28

2. 25

3. 36

4. 40

5. 32

Ans -5

Solution:

$$\frac{?}{100} \times 900 + 500 = 788$$

$$? = \frac{288 \times 100}{900}$$

$$? = 32$$

Q.36 Study the below mentioned charts carefully and answer the following questions.

Pie chart shows the percentage distribution of students of a school playing different sports and table chart shows the ratio of boys and girls who are playing these sports.

% distribution of students

Games	Ratio of boys to girls
Chess	7 : 5
Table Tennis	25 : 11
Hot Potato	2 : 3
Treasure Hunt	5 : 7
Card Games	1 : 1
Carrom	5 : 3

Note – Total number of students = 800
1 student plays only 1 game.

Girls playing Hot Potato and Chess together is what percent more or less than the boys playing Table Tennis?

1. 39%

2. 42%

3. 36%

4. 48%

5. 57%

Ans -4

Solution:

Girls playing Hot Potato & Chess together
$= 800 \times \frac{10}{100} \times \frac{3}{5} + 800 \times \frac{30}{100} \times \frac{5}{12} = 48 + 100$
$= 148$
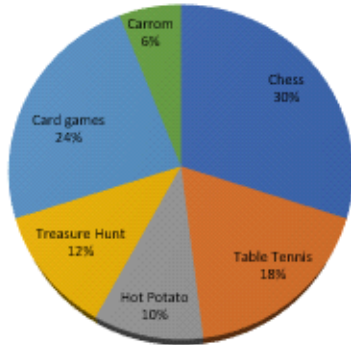
Boys playing Table Tennis $= 800 \times \frac{18}{100} \times \frac{25}{36} = 100$

So, required % $= \frac{148 - 100}{100} \times 100 = 48\%$ more

Q.37 Study the below mentioned charts carefully and answer the following questions.

Pie chart shows the percentage distribution of students of a school playing different sports and table chart shows the ratio of boys and girls who are playing these sports.

% distribution of students

Games	Ratio of boys to girls
Chess	7 : 5
Table Tennis	25 : 11
Hot Potato	2 : 3
Treasure Hunt	5 : 7
Card Games	1 : 1
Carrom	5 : 3

Note – Total number of students = 800
1 student plays only 1 game.

Find the ratio of average of girls playing Chess, Table Tennis and Card Games to number of boys playing Hot Potato and Card games together.

1. 4 : 7

2. 7 : 4

3. 5 : 9

4. 9 : 5

5. 5 : 8

Ans -5

Solution:

Average of girls playing Chess, Table Tennis and Card Games =

$$\frac{\left[800 \times \frac{30}{100} \times \frac{5}{12} + 800 \times \frac{18}{100} \times \frac{11}{36} + 800 \times \frac{24}{100} \times \frac{1}{2}\right]}{3}$$

$$= \frac{100 + 44 + 96}{3} = 80$$

Number of Boys playing Hot Potato and Card Games together

$$= 800 \times \frac{10}{100} \times \frac{2}{5} + 800 \times \frac{24}{100} \times \frac{1}{2} = 32 + 96 = 128$$

Required ratio $= \frac{80}{128} = \frac{5}{8} = 5:8$

Q.38 Study the below mentioned charts carefully and answer the following questions.

Pie chart shows the percentage distribution of students of a school playing different sports and table chart shows the ratio of boys and girls who are playing these sports.

% distribution of students
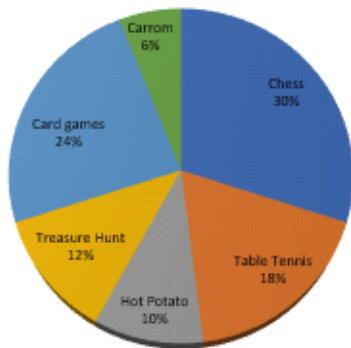
Games	Ratio of boys to girls
Chess	7 : 5
Table Tennis	25 : 11
Hot Potato	2 : 3
Treasure Hunt	5 : 7
Card Games	1 : 1
Carrom	5 : 3

Note – Total number of students = 800

1 student plays only 1 game.

Boys playing Chess and Table Tennis together is what percent of girls playing Hot Potato, Treasure Hunt and Card Games together?

1. 130%

2. 100%

3. 110%

4. 120%

5. 140%

Ans -4

Solution:

Boys playing Chess and Table Tennis together = $800 \times \frac{30}{100} \times \frac{7}{12} + 800 \times \frac{18}{100} \times \frac{25}{36}$

= 140 + 100 = 240

Girls playing Hot Potato, Treasure Hunt and Card Games together
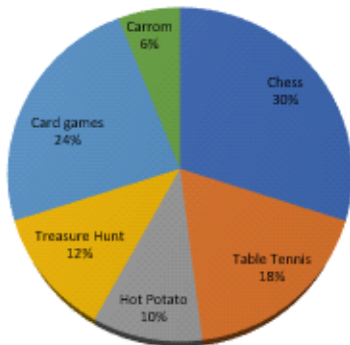
= $800 \times \frac{10}{100} \times \frac{3}{5} + 800 \times \frac{12}{100} \times \frac{7}{12} + 800 \times \frac{24}{100} \times \frac{1}{2}$

= 48 + 56 + 96

= 200

Required % = $\frac{240}{200} \times 100 = 120\%$

Q.39 Study the below mentioned charts carefully and answer the following questions.

Pie chart shows the percentage distribution of students of a school playing different sports and table chart shows the ratio of boys and girls who are playing these sports.

% distribution of students

Games	Ratio of boys to girls
Chess	7 : 5
Table Tennis	25 : 11
Hot Potato	2 : 3
Treasure Hunt	5 : 7
Card Games	1 : 1
Carrom	5 : 3

Note – Total number of students = 800
1 student plays only 1 game.

75% of students who play Carrom stops playing Carrom and starts playing Treasure Hunt due to which number of girls playing Treasure Hunt increased by 25%, then find the ratio of boys to girls who are still playing Carrom.

1. 3 : 2

2. 4 : 3

3. 2 : 1

4. 5 : 4

5. None of the above.

Ans -3

Solution:
Number of students who leaves Carrom
$= 800 \times \frac{6}{100} \times \frac{75}{100} = 36$
Numbers of girls who leaves Carrom
$= 800 \times \frac{12}{100} \times \frac{7}{12} \times \frac{25}{100} = 14$
So,
Number of girls who still plays Carrom
$= 800 \times \frac{6}{100} \times \frac{3}{8} - 14 = 4$
Number of boys who still plays Carrom
$= 800 \times \frac{6}{100} \times \frac{5}{8} - (36 - 14)$
$= 30 - 22$
$= 8$
So, required ratio $= \frac{8}{4} = \frac{2}{1} = 2 : 1$

Q.40 Study the below mentioned charts carefully and answer the following questions.

Pie chart shows the percentage distribution of students of a school playing different sports and table chart shows the ratio of boys and girls who are playing these sports.

% distribution of students
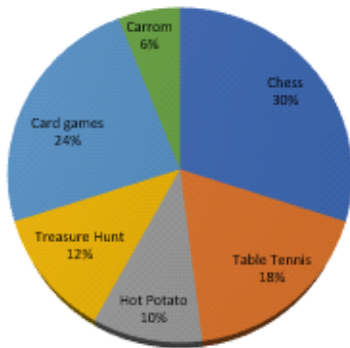
Games	Ratio of boys to girls
Chess	7 : 5
Table Tennis	25 : 11
Hot Potato	2 : 3
Treasure Hunt	5 : 7
Card Games	1 : 1
Carrom	5 : 3

Note – Total number of students = 800
1 student plays only 1 game.

Find the central angle (in degrees), enclosed boys playing Treasure Hunt.

1. 18

2. 8.5

3. 9.75

4. 10

5. 7.25

Ans -1

Solution:

Percentage distribution of boys playing

Treasure Hunt $12 \times \frac{5}{12} = 5\%$

So, required angle $= \frac{360}{100} = \frac{x}{5}$

$= 18°$

Q.41 Two Men A alone & B alone can do a work in 20 days & 24 days respectively. Both started the work simultaneously and after X days A leaves the work & the whole work completed in 12 days. Find X.

      1. 9 days

      2. 15 days

      3. 12 days

      4. 10 days

      5. 8 days

Ans -4

Solution:

Let the total work be 120 units. (LCM of 20 & 24)
Efficiency of A = 6 units/day
Efficiency of B = 5 units/day
ATQ,
$6 \times X + 5 \times 12 = 120$
$\Rightarrow X = 10$ days.

Q.42 Ratio of investment of A, B & C is 4 : 6 : 9 respectively. At the end of a year, ratio of profit share of A, B & C is 4 : 5 : 6 respectively. If A has invested for a year then find the sum of period of investment of B & C?

        1. 15 months

        2. 20 months

        3. 24 months

        4. 22 months

        5. 18 months

Ans -5

Solution:
Let the investment of A, B & C be Rs. 4x, 6x & 9x respectively.
Let the period of investment of B & C be t_1 & t_2 months respectively.
Ratio of profit share
$A : B : C = 4x \times 12 : 6x \times t_1 : 9x \times t_2$
ATQ,
$\frac{4x \times 12}{6x \times t_1} = \frac{4}{5} \Rightarrow t_1 = 10$ months.
and, $\frac{4x \times 12}{9x \times t_2} = \frac{4}{6} \Rightarrow t_2 = 8$ months.
Required sum = $t_1 + t_2 = 18$ months.

Q.43 40% of first number is equal to 30% of second number. If average of both numbers is 30 more than the first number, then find 75% of the second number?

1. 180

2. 150

3. 240

4. 210

5. 360

Ans -1

Solution:
Let first number and second number
be x and y respectively
Then, $40 \times \frac{x}{100} = 30 \times \frac{y}{100}$
4x=3y....................(i)
And $\frac{x+y}{2} = x + 30$
$y - x = 60 .... (ii)$
From (i) and (ii)
y=240
75% of second number=180

Q.44 Present age of A is 75% of the present age of B and ratio of present age of B to that of C is 8:5. If average of present age of all the three is $31\frac{2}{3}$ years then find the sum of A's and C's age, 5 years later?

1. 60 years

2. 70 years

3. 75 years

4. 65 years

5. 55 years

Ans -4

Solution:

Let present age of B be 8x years
Then present age of A=6x years
And present age of C=5x years
ATQ
$$\frac{8x+6x+5x}{3} = \frac{95}{3}$$
$$x = 5$$
Required sum=11x+10=65 years

Q.45 Average of 5 numbers is 82. Average of 2 smallest numbers is 65 and average of 2 greatest numbers is 100. Find the middle number if all these 5 numbers are arranged in increasing order.

1. 85

2. 100

3. 70

4. 80

5. 90

Ans -4

Solution:

Required number
$= (82 \times 5) - (65 \times 2) - (100 \times 2)$
$= 410 - 130 - 200$
$= 80$

Q.46 Find the wrong number in the following number series.

244, 290, 198, 336, 152, 382, 110

      1. 382

      2. 290

      3. 244

      4. 110

      5. 336

Ans -4

Solution:

Wrong number = 110
Pattern of series –

244		290		198		336		152		382		106
	+46		-92		+138		-184		+230		-276	
		46		46		46		46		46		
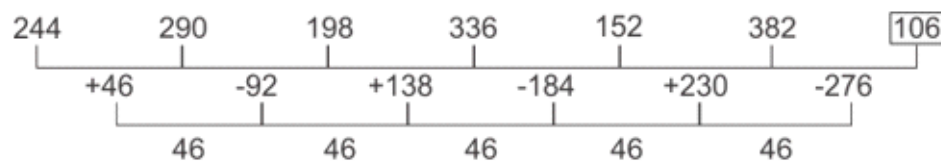
So, there should be 106 in place of 110.

Q.47 Find the wrong number in the following number series.

86, 92, 117, 133, 258, 294, 637

        1. 133

        2. 294

        3. 637

        4. 86

        5. 92

Ans -5

Solution:

Wrong number = 92

Pattern of series –

86	90	117	133	258	294	637
	+4	+27	+16	+125	+36	+343
	$(2)^2$	$(3)^3$	$(4)^2$	$(5)^3$	$(6)^2$	$(7)^3$
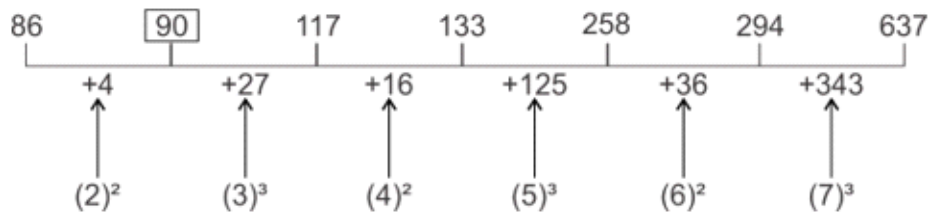
So, there should be 90 in place of 92.

Q.48 Find the wrong number in the following number series.

1, 4, 12, 30, 68, 146, 306

        1. 146

        2. 306

        3. 30

        4. 4

        5. 12

Ans -2

Solution:
Wrong number = 306
Pattern of series –

1	4	12	30	68	146	304
	×2+2	×2+4	×2+6	×2+8	×2+10	×2+12
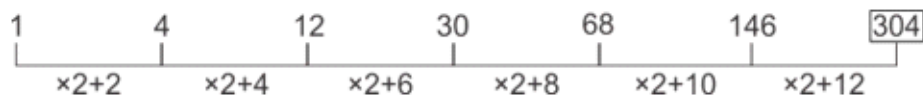
So, there should be 304 in place of 306.

Q.49 Find the wrong number in the following number series.

110, 108, 120, 100, 130, 88, 144

        1. 110

        2. 108

        3. 100

        4. 88

        5. 130

Ans -1

Solution:
Wrong number = 110
Pattern of series –

114	108	120	100	130	88	144
-6	+12	-20	+30	-42	+56	
6	8	10	12	14		
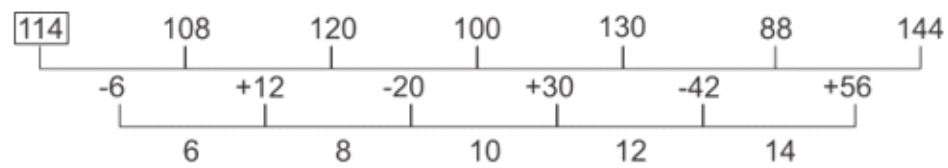
So, there should be 114 in place of 110.

Q.50 Find the wrong number in the following number series.

473, 406, 335, 262, 183, 99, 11

        1. 99

2. 183

3. 335

4. 406

5. 473

Ans -1

Solution:

Wrong number = 99

Pattern of series –

473	406	335	262	183	100	11

-67   -71   -73   -79   -83   -89
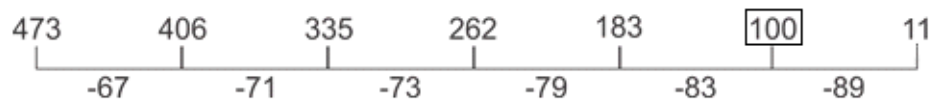
So, there should be 100 in place of 99.

Q.51 A man can row 60 km in downstream and 35 km in upstream in 9 hours. Also, he can row 49 km in upstream and 75 km in downstream in 12 hours. Find the rate of the current.

1. 6 kmph

2. 3 kmph

3. 7.5 kmph

4. 4 kmph

5. 2 kmph

Ans -4

Solution:

Let speed of boat in still water and speed of current be x km/hr and y km/hr respectively.

ATQ,

$$9 = \frac{60}{x+y} + \frac{35}{x-y} \quad ....(i)$$

$$12 = \frac{75}{x+y} + \frac{49}{x-y} \quad ....(ii)$$

From (i) and (ii)

$$x + y = 15$$
$$\& \ x - y = 7$$

∴ speed of current = 4 kmph

Q.52 Ratio of cost price to that of marked price is 3: 5 and ratio of loss to that of discount is 1:4 then find the discount % given?

1. $48\frac{1}{3}\%$

2. $53\frac{1}{3}\%$

3. $58\frac{1}{3}\%$

4. $63\frac{1}{3}\%$

5. 60%

Ans -2

Solution:
Let the cost price and marked price be
Rs 3x and Rs 5x respectively
And let the loss and discount be Rs y and
Rs 4y respectively
ATQ
$3x - y = 5x - 4y$
$3y = 2x$
Marked price$=Rs \dfrac{15}{2}y$
Required discount %$=\dfrac{4y}{\frac{15}{2}y} \times 100 = 53\dfrac{1}{3}\%$

Q.53 Find the number of 7-digit numbers which can be formed by using all digits 6,5,4,5,3,4,3 only once such that the odd digits occupy odd places only?

1. 24

2. 15

3. 18

4. 20

5. 30

Ans -3

Solution:

Number of ways such that four odd digits
(5,5,3,3) can be arranged in 4 odd places $= \frac{4!}{2! \times 2!} = 6\ ways$
Number of ways such that three even digits
(6,4,4) can be arranged in 3 even places $= \frac{3!}{2!}$
$=3\ ways$
Hence, the required number of ways$=6 \times 3 = 18$

Q.54 On a certain sum and at the certain rate of interest, CI at the end of two years is Rs 252 while CI at the end of four years is Rs 556.92. Find that amount?

          1. Rs 1000

          2. Rs 1500

          3. Rs 1600

          4. Rs 1800

          5. Rs 1200

Ans -5

Solution:

Let the sum be Rs P and rate of interest be R% per annum

ATQ

$$\frac{P\left[(1+\frac{R}{100})^2-1\right]}{P\left[(1+\frac{R}{100})^4-1\right]} = \frac{252}{556.92}$$

Let $\left[1+\frac{R}{100}\right]^2 = x$

Then $\frac{x-1}{x^2-1} = \frac{100}{221}$

$\frac{x-1}{(x-1)(x+1)} = \frac{100}{221}$

$\Rightarrow x=\frac{121}{100}$ $i.e.\left[1+\frac{R}{100}\right]^2 = \frac{121}{100}$

$\Rightarrow R=10\%$

$$P\left[\left(1+\frac{R}{100}\right)^2-1\right] = 252$$

$$P\left[(1+\frac{10}{100})^2-1\right]$$

And $P \times \frac{21}{100} = 252 \Rightarrow P = Rs\ 1200$

Q.55 Two pipes P and Q alone can fill a tank in 24 min and 30 min respectively and a pipe R alone can empty the tank by throwing out 8 gallons in 2 minutes. All the three pipes working together can fill the tank in 20 minutes. Find the capacity of the tank?

1. 80 gallons

2. 160 gallons

3. 320 gallons

4. 240 gallons

5. None of these

Ans -2

Solution:

Let pipe R alone can empty the tank in x minutes

ATQ

$$20\left[\frac{1}{24} + \frac{1}{30} - \frac{1}{x}\right] = 1$$

$$x = 40 \; minutes$$

Capacity of the tank = $8 \times 40 \times \frac{1}{2} = 160 \; gallons$

Q.56 Read the below given passage carefully and answer the following questions.

There are four persons – A, B, C and D. A & B working together can complete a piece of work in 42 days and A, B and D working together can complete the same work in 28 days. C is 20% less efficient and $33\frac{1}{3}\%$ more efficient than D & A respectively. Total work is 2100 units.

If C works with 50% more efficiency than his usual efficiency, then find time taken by C to complete the whole work alone.

        1. 60 days

        2. 30 days

        3. 40 days

        4. 70 days

        5. 50 days

Ans -4

Solution:

	Days	Efficiency	Total work
A + B	42	50 units/day	
A + B + D	28	75 units/day	2100units units

Now,

Efficiency of D=75-50=25 units/day

Efficiency of C=25 × 0.8 = $25 \times 0.8 = 20 \; units/day$

Efficiency of A=20 × $\frac{3}{4}$ = $15 \; units/day$

Efficiency of B=50-15=35 units/day

New efficiency of C = 20 × $\frac{150}{100}$ = 30 units/day

Required time = $\frac{2100}{30}$ = 70 days

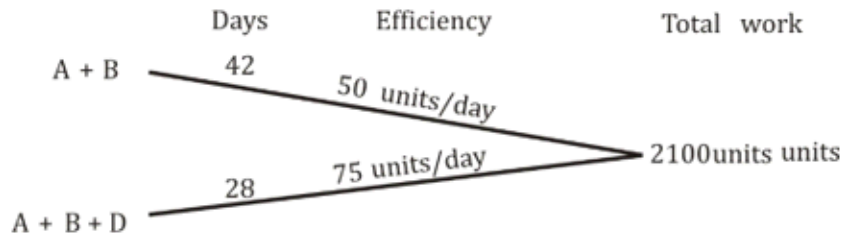**Q.57 Read the below given passage carefully and answer the following questions.**

There are four persons – A, B, C and D. A & B working together can complete a piece of work in 42 days and A, B and D working together can complete the same work in 28 days. C is 20% less efficient and $33\frac{1}{3}\%$ more efficient than D & A respectively. Total work is 2100 units.

B started the work and he left the work after working for 'Y' days. If the remaining work is completed by D and total work is completed in 64 days, then find 'Y'.

          1. 50 days

          2. 10 days

          3. 30 days

          4. 60 days

5. 90 days

Ans -1

Solution:
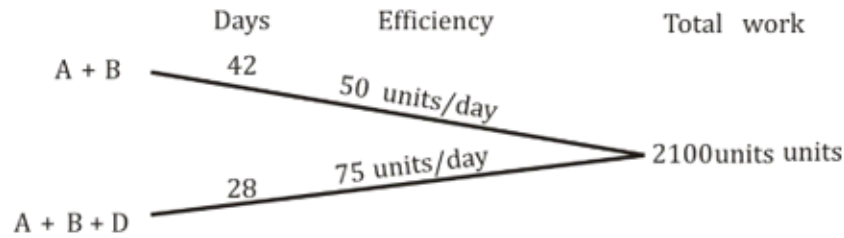
	Days	Efficiency	Total work
A + B	42	50 units/day	
		75 units/day	2100units units
A + B + D	28		

Now,

Efficiency of D=75-50=25 units/day

Efficiency of C=25 × 0.8 = 20 $units/day$

Efficiency of A=20 × $\frac{3}{4}$ = 15 $units/day$

Efficiency of B=50-15=35 units/day

Total work done by B in Y days = 35Y units

and total work done by D = (64 – Y) 25 units

ATQ,

35Y + (64 – Y) 25 = 2100

35Y – 25Y + 1600 = 2100

10Y = 500

Y = 50 days

Q.58 Read the below given passage carefully and answer the following questions.

There are four persons – A, B, C and D. A & B working together can complete a piece of work in 42 days and A, B and D working together can complete the same work in 28 days. C is 20% less efficient and $33\frac{1}{3}\%$ more efficient than D & A respectively. Total work is 2100 units.

If A, B & C starts working alternatively such as B works on first day followed by A & C, then find in how many days the whole work will be completed?

1. 87 days

2. 94 days

3. 90 days

4. 91 days

5. 99 days

Ans -3

Solution:

	Days	Efficiency	Total work
A + B	42	50 units/day	2100units units
A + B + D	28	75 units/day	

Now,

Efficiency of D=75-50=25 units/day

Efficiency of C=25 × 0.8 = $25 \times 0.8 = 20$ units/day

Efficiency of A=20 × $\frac{3}{4}$ = 15 units/day

Efficiency of B=50-15=35 units/day

Work completed on first day = 35 units

Work completed on second day = 15 units

Work completed on third day = 20 units

Total work completed in three days

= 35 + 15 + 20 = 70 units

So, required days = $\frac{2100}{70}$ × 3 = 90 days

Q.59 Read the below given passage carefully and answer the following questions.
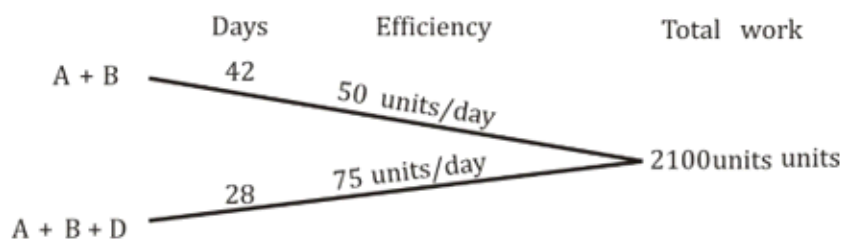
There are four persons – A, B, C and D. A & B working together can complete a piece of work in 42 days and A, B and D working together can complete the same work in 28 days. C is 20% less efficient and $33\frac{1}{3}\%$ more efficient than D & A respectively. Total work is 2100 units.

Ratio of number of days taken by B & D working together to complete the work to number of days taken by A alone to complete the work.

         1. 1 : 4

         2. 5 : 7

         3. 11 : 13

         4. 2 : 3

         5. None of the above.

Ans -1

Solution:
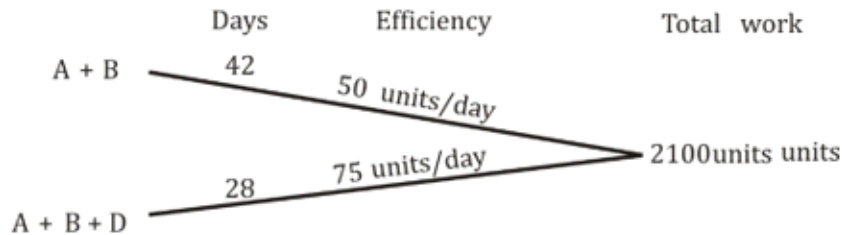
	Days	Efficiency	Total work
A + B	42	50 units/day	
A + B + D	28	75 units/day	2100units units

Now,

Efficiency of D=75-50=25 units/day

Efficiency of C=25 × 0.8 $= 20\ units/day$

Efficiency of A=20 × $\frac{3}{4}$ $= 15\ units/day$

Efficiency of B=50-15=35 units/day

Days taken by B & D working together to complete the work $= \frac{2100}{35+25} = 35$ days

Days taken by A alone to complete the work $= \frac{2100}{15} = 140$ days

Required ratio $= \frac{35}{140} = \frac{1}{4} = 1:4$

Q.60 Read the below given passage carefully and answer the following questions.

There are four persons – A, B, C and D. A & B working together can complete a piece of work in 42 days and A, B and D working together can complete the same work in 28 days. C is 20% less efficient and $33\frac{1}{3}\%$ more efficient than D & A respectively. Total work is 2100 units.

If D is working with 20% more efficiency than his usual efficiency, then find in how many days A, B, C & D working together will complete the whole work?

      1. 14 days

      2. 17 days

3. 10 days

4. 19 days

5. None of the above.

Ans -5

Solution:
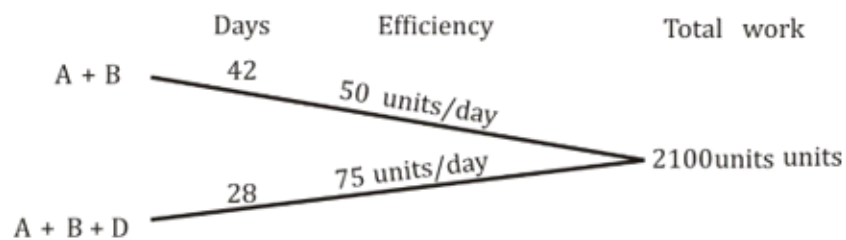
	Days	Efficiency	Total work
A + B	42	50 units/day	
A + B + D	28	75 units/day	2100units units

Now,

Efficiency of D=75-50=25 units/day

Efficiency of C=25 × 0.8 = $units/day$

Efficiency of A=20 × $\frac{3}{4}$ = 15 $units/day$

Efficiency of B=50-15=35 units/day

New efficiency of D = 25 × $\frac{120}{100}$ = 30 units/day

So, required days = $\frac{2100}{(15 + 35 + 20 + 30)}$ = 21 days

Q.61 In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer.

(I) $8x^2-10x+3=0$
(II) $5y^2+14y-3=0$

1. if x>y

2. if x≥y

3. if x<y

4. if x ≤y

5. if x = y or no relation can be established between x and y.

Ans -1

Solution:

(I) $8x^2-10x+3=0$
       $8x^2-6x-4x+3=0$
       $2x(4x-3)-1(4x-3)=0$
       $(2x-1)(4x-3)=0$
       $x=\dfrac{1}{2}$ or $\dfrac{3}{4}$

(II) $5y^2 + 14y-3=0$
        $5y^2+15y-y-3=0$
        $5y(y+3)-1(y+3)=0$
        $(5y-1)(y+3)=0$
        $y=\dfrac{1}{5}$ or -3.

∴   x > y

Q.62 In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer.

(I) $3x^2+13x+12=0$

(II) $y^2+9y+20=0$

1. if x>y

2. if x≥y

3. if x<y

4. if x ≤y

5. if x = y or no relation can be established between x and y.

Ans -1

Solution:

(I) $3x^2+13x+12=0$

$3x^2+9x+4x+12=0$

$3x(x+3) +4(x+3) =0$

$x=-3, -\dfrac{4}{3}$

(II) $y^2+9y+20=0$

$y^2+5y+4y+20=0$

    $y(y+5) + 4(y+5) =0$

$y=-5, -4$

∴   x > y

Q.63 In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer.

(I) $x^2-4x-5=0$
(II)$7y^2-25y-12=0$

1. if x>y

2. if x≥y

3. if x<y

4. if x ≤y

5. if x = y or no relation can be established between x and y.

Ans -5

Solution:
(I) $x^2-4x-5=0$
$x^2-5x+x-5=0$
$x(x-5)+1(x-5)=0$
$x=5,-1.$
(II) $7y^2-25y-12=0$
$7y^2-28y+3y-12=0$
$7y(y-4)+3(y-4)=0$
$(y-4)(7y+3)=0$
$y=4,-3/7$
∴   No relation.

Q.64 In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer.

(I) $x^3=216$
(II) $2y^2-25y+78=0$

1. if x>y

2. if x≥y

3. if x<y

4. if x ≤y

5. if x = y or no relation can be established between x and y.

Ans -4

Solution:
(I) $x^3=216$
            $x=(216)^{1/3}$
        x=6
        (II) $2y^2-25y+78=0$
$2y^2-12y-13y+78=0$
$2y(y-6)-13(y-6) =0$
$y=\frac{13}{2}, 6.$
    ∴   y≥x.

Q.65 In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer.

(I) $5x^2 + 31x + 48 = 0$
(II) $3y^2 + 27y + 42 = 0$

1. if x>y

2. if x≥y

3. if x<y

4. if x ≤y

5. if x = y or no relation can be established between x and y.

Ans -5

Solution:
(i) $5x^2 + 31x + 48 = 0$
$5x^2 + 15x + 16x + 48 = 0$
$5x (x + 3) + 16 (x + 3) = 0$
$x = -3, -16/5$
(ii) $3y^2 + 27y + 42 = 0$
$3y^2 + 21y + 6y + 42 = 0$
$3y (y + 7) + 6 (y + 7) = 0$
$y = -7, -2$
So, Relation cannot be established

Reasoning

Q.66 Study the following information carefully and answer the questions given below:

Seven women go to party on seven different days of the week starting from Monday to Sunday. They go to different places i.e, Jaipur, Mumbai, Surat, Pune, Patna, Nainital and Delhi but not necessarily in the same order. Nisha goes to Mumbai but goes before Thursday. Number of women going to party before

Nisha is same as that going after Moni. Moni does not go to Patna and Surat. The one who go to Patna go to party on the last day. Two women goes between Leela and Aisha who does not go to Patna and Surat. The one who goes to Surat go just before Neena and just after Teena. The one who go to Pune goes just before Preet. Teena does not go to Jaipur and Delhi. Neena does not go to Jaipur and Nainital.

Who among the following goes to party on Saturday?

1. Leela

2. Neena

3. Moni

4. The one who go to Nainital

5. The one who go just after Preet

Ans -3

Solution:
From the given statements, Nisha goes to Mumbai but goes before Thursday. Number of women going to party before Nisha is same as that going after Moni. The one who go to Patna go to party on the last day. So we have three possible cases:

Days	Case-1		Case-2		Case-3	
	Women	Places	Women	Places	Women	Places
Monday	Nisha	Mumbai				
Tuesday			Nisha	Mumbai		
Wednesday					Nisha	Mumbai
Thursday						
Friday					Moni	
Saturday			Moni			
Sunday	Moni	Patna		Patna		Patna

Moni does not go to Patna and Surat so case-1 is eliminated. The one who goes to Surat go just before Neena and just after Teena. Two women go between Leela and Aisha who does not go to Patna and Surat. So case-3 is eliminated. The one who go to Pune goes just before Preet. Teena does not go to Jaipur and Delhi. Neena does not go to Jaipur and Nainital means Aisha goes to Jaipur, Teena go to Nainital and Neena go to Delhi. So the final arrangement is:

Days	Women	Places
Monday	Aisha	Jaipur
Tuesday	Nisha	Mumbai
Wednesday	Teena	Nainital
Thursday	Leela	Surat
Friday	Neena	Delhi
Saturday	Moni	Pune
Sunday	Preet	Patna

Q.67 Study the following information carefully and answer the questions given below:

Seven women go to party on seven different days of the week starting from Monday to Sunday. They go to different places i.e, Jaipur, Mumbai, Surat, Pune, Patna, Nainital and Delhi but not necessarily in the same order. Nisha goes to Mumbai but goes before Thursday. Number of women going to party before Nisha is same as that going after Moni. Moni does not go to Patna and Surat. The one who go to Patna go to party on the last day. Two women goes between Leela and Aisha who does not go to Patna and Surat. The one who goes to Surat go just before Neena and just after Teena. The one who go to Pune goes just before Preet. Teena does not go to Jaipur and Delhi. Neena does not go to Jaipur and Nainital.

Number of women going to party before Neena is the same as the number of women going to party after _____?

1. Teena

2. Leela

3. Aisha

4. The one who go to Patna

5. The one who go on Monday

Ans -1

Solution:

From the given statements, Nisha goes to Mumbai but goes before Thursday. Number of women going to party before Nisha is same as that going after Moni. The one who go to Patna go to party on the last day. So we have three possible cases:

Days	Case-1		Case-2		Case-3	
	Women	Places	Women	Places	Women	Places
Monday	Nisha	Mumbai				
Tuesday			Nisha	Mumbai		
Wednesday					Nisha	Mumbai
Thursday						
Friday					Moni	
Saturday			Moni			
Sunday	Moni	Patna		Patna		Patna

Moni does not go to Patna and Surat so case-1 is eliminated. The one who goes to Surat go just before Neena and just after Teena. Two women go between Leela and Aisha who does not go to Patna and Surat. So case-3 is eliminated. The one who go to Pune goes just before Preet. Teena does not go to Jaipur and Delhi. Neena does not go to Jaipur and Nainital means Aisha goes to Jaipur, Teena go to Nainital and Neena go to Delhi. So the final arrangement is:

Days	Women	Places
Monday	Aisha	Jaipur
Tuesday	Nisha	Mumbai
Wednesday	Teena	Nainital
Thursday	Leela	Surat
Friday	Neena	Delhi
Saturday	Moni	Pune
Sunday	Preet	Patna

Q.68 Study the following information carefully and answer the questions given below:

Seven women go to party on seven different days of the week starting from Monday to Sunday. They go to different places i.e, Jaipur, Mumbai, Surat, Pune, Patna, Nainital and Delhi but not necessarily in the same order. Nisha goes to Mumbai but goes before Thursday. Number of women going to party before Nisha is same as that going after Moni. Moni does not go to Patna and Surat. The one who go to Patna go to party on the last day. Two women goes between Leela and Aisha who does not go to Patna and Surat. The one who goes to Surat go just before Neena and just after Teena. The one who go to Pune goes just before Preet. Teena does not go to Jaipur and Delhi. Neena does not go to Jaipur and Nainital.

Four of the following five are alike in a certain way, and hence form a group which of the following does not belong to the group?

1. Monday-Nisha-Nainital

2. Sunday-Preet-Patna

3. Friday-Moni-Patna

4. Wednesday-Leela-Delhi

5. Thursday-Neena-Pune

Ans -2

Solution:
From the given statements, Nisha goes to Mumbai but goes before Thursday. Number of women going to party before Nisha is same as that going after Moni. The one who go to Patna go to party on the last day. So we have three possible cases:

Days	Case-1		Case-2		Case-3	
	Women	Places	Women	Places	Women	Places
Monday	Nisha	Mumbai				
Tuesday			Nisha	Mumbai		
Wednesday					Nisha	Mumbai
Thursday						
Friday					Moni	
Saturday			Moni			
Sunday	Moni	Patna		Patna		Patna

Moni does not go to Patna and Surat so case-1 is eliminated. The one who goes to Surat go just before Neena and just after Teena. Two women go between Leela and Aisha who does not go to Patna and Surat. So case-3 is eliminated. The one who go to Pune goes just before Preet. Teena does not go to Jaipur and Delhi. Neena does not go to Jaipur and Nainital means Aisha goes to Jaipur, Teena go to Nainital and Neena go to Delhi. So the final arrangement is:

Days	Women	Places
Monday	Aisha	Jaipur
Tuesday	Nisha	Mumbai
Wednesday	Teena	Nainital
Thursday	Leela	Surat
Friday	Neena	Delhi
Saturday	Moni	Pune
Sunday	Preet	Patna

Q.69 Study the following information carefully and answer the questions given below:

Seven women go to party on seven different days of the week starting from Monday to Sunday. They go to different places i.e, Jaipur, Mumbai, Surat, Pune, Patna, Nainital and Delhi but not necessarily in the same order. Nisha goes to Mumbai but goes before Thursday. Number of women going to party before Nisha is same as that going after Moni. Moni does not go to Patna and Surat. The one who go to Patna go to party on the last day. Two women goes between Leela and Aisha who does not go to Patna and Surat. The one who goes to Surat go just before Neena and just after Teena. The one who go to Pune goes just before Preet. Teena does not go to Jaipur and Delhi. Neena does not go to Jaipur and Nainital.

Who among the following go to Pune?

1. Neena

2. Leela

3. The one who go on Monday

4. Teena

5. The one who go on Saturday

Ans -5

Solution:

From the given statements, Nisha goes to Mumbai but goes before Thursday. Number of women going to party before Nisha is same as that going after Moni. The one who go to Patna go to party on the last day. So we have three possible cases:

Days	Case-1		Case-2		Case-3	
	Women	Places	Women	Places	Women	Places
Monday	Nisha	Mumbai				
Tuesday			Nisha	Mumbai		
Wednesday					Nisha	Mumbai
Thursday						
Friday					Moni	
Saturday			Moni			
Sunday	Moni	Patna		Patna		Patna

Moni does not go to Patna and Surat so case-1 is eliminated. The one who goes to Surat go just before Neena and just after Teena. Two women go between Leela and Aisha who does not go to Patna and Surat. So case-3 is eliminated. The one who go to Pune goes just before Preet. Teena does not go to Jaipur and Delhi. Neena does not go to Jaipur and Nainital means Aisha goes to Jaipur, Teena go to Nainital and Neena go to Delhi. So the final arrangement is:

Days	Women	Places
Monday	Aisha	Jaipur
Tuesday	Nisha	Mumbai
Wednesday	Teena	Nainital
Thursday	Leela	Surat
Friday	Neena	Delhi
Saturday	Moni	Pune
Sunday	Preet	Patna

Q.70 Study the following information carefully and answer the questions given below:

Seven women go to party on seven different days of the week starting from Monday to Sunday. They go to different places i.e, Jaipur, Mumbai, Surat, Pune, Patna, Nainital and Delhi but not necessarily in the same order. Nisha goes to Mumbai but goes before Thursday. Number of women going to party before Nisha is same as that going after Moni. Moni does not go to Patna and Surat. The one who go to Patna go to party on the last day. Two women goes between Leela and Aisha who does not go to Patna and Surat. The one who goes to Surat go just before Neena and just after Teena. The one who go to Pune goes just before Preet. Teena does not go to Jaipur and Delhi. Neena does not go to Jaipur and Nainital.

Which of the following is not true regarding Leela?

        1. Leela go to party on Thursday

        2. Neena go to party just after Leela

        3. Two women go to party between Leela and Preet.

        4. Leela goes before the one who go to Pune.

        5. All are true

Ans -5

Solution:
From the given statements, Nisha goes to Mumbai but goes before Thursday. Number of women going to party before Nisha is same as that going after Moni. The one who go to Patna go to party on the last day. So we have three possible cases:

Days	Case-1		Case-2		Case-3	
	Women	Places	Women	Places	Women	Places
Monday	Nisha	Mumbai				
Tuesday			Nisha	Mumbai		
Wednesday					Nisha	Mumbai
Thursday						
Friday					Moni	
Saturday			Moni			
Sunday	Moni	Patna		Patna		Patna

Moni does not go to Patna and Surat so case-1 is eliminated. The one who goes to Surat go just before Neena and just after Teena. Two women go between Leela and Aisha who does not go to Patna and Surat. So case-3 is eliminated. The one who go to Pune goes just before Preet. Teena does not go to Jaipur and Delhi. Neena does not go to Jaipur and Nainital means Aisha goes to Jaipur, Teena go to Nainital and Neena go to Delhi. So the final arrangement is:

Days	Women	Places
Monday	Aisha	Jaipur
Tuesday	Nisha	Mumbai
Wednesday	Teena	Nainital
Thursday	Leela	Surat
Friday	Neena	Delhi
Saturday	Moni	Pune
Sunday	Preet	Patna

Q.71 Study the following information carefully and answer the questions given below

In a certain code language:
"singing is nice hobby" is coded as "u&5 k*17 p*3 j&23"
"songs good for mind" is coded as "u&17 i*2 h&16 o*2"
"melody creates positive attitude" is coded as "o*23 e&17 r*3 c*3"
"hobby can never regain" is coded as "j&23 e&12 p&16 t*12"

What is the code for "creates"?

1. o*23

2. e&17

3. r*3

4. c*3

5. None of these

Ans -2

Solution:

+2 letter of the first letter of the word.

|

hobby   j&23 ——— -2 of the place value of the last letter of the word

|

if odd number of letters then &
if even number of letters then *

Q.72 Study the following information carefully and answer the questions given below

In a certain code language:
"singing is nice hobby" is coded as "u&5 k*17 p*3 j&23"
"songs good for mind" is coded as "u&17 i*2 h&16 o*2"
"melody creates positive attitude" is coded as "o*23 e&17 r*3 c*3"
"hobby can never regain" is coded as "j&23 e&12 p&16 t*12"

What is the code for "ultimate"?

1. w*4

2. u*4

3. u&3

4. w*3

5. w&3

Ans -4

Solution:

+2 letter of the first letter
of the word.
|
hobby   j&23——— -2 of the place value of the
                        last letter of the word
|
if odd number of letters
then &
if even number of letters
then *
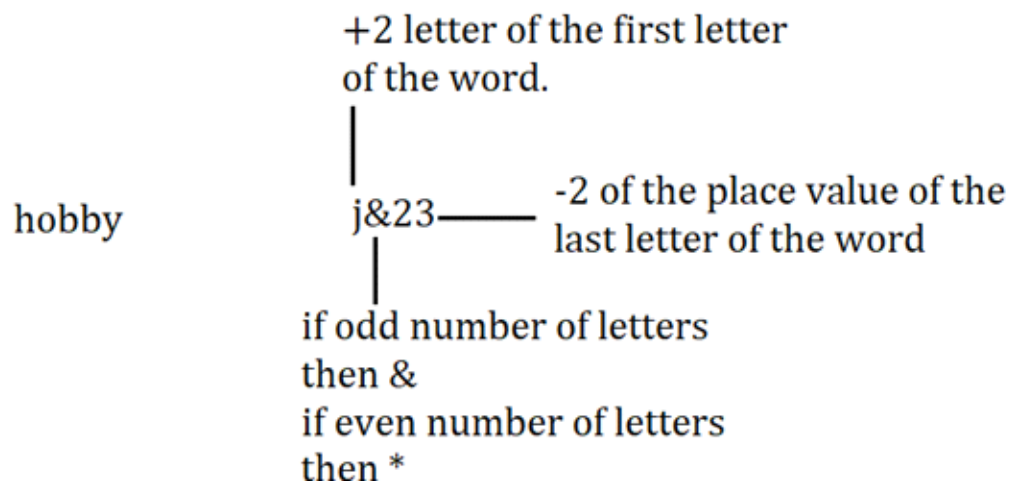
Q.73 Study the following information carefully and answer the questions given below

In a certain code language:
"singing is nice hobby" is coded as "u&5 k*17 p*3 j&23"
"songs good for mind" is coded as "u&17 i*2 h&16 o*2"
"melody creates positive attitude" is coded as "o*23 e&17 r*3 c*3"
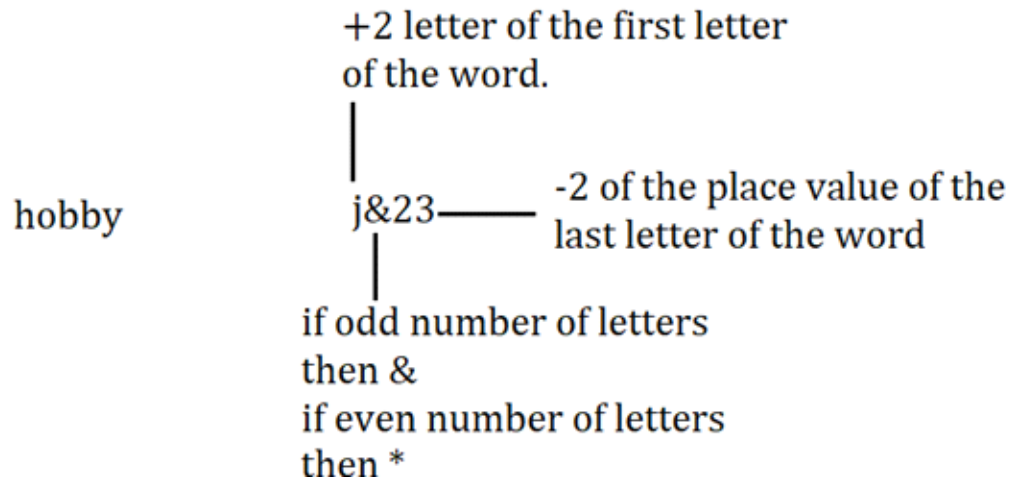"hobby can never regain" is coded as "j&23 e&12 p&16 t*12"

What is code for "health wealth" ?

          1. j&6 y*6

          2. j*6 y&6

          3. j&6 y&6

4. j*6 y*6

5. None of these

Ans -4

Solution:

+2 letter of the first letter
of the word.

hobby   j&23—— -2 of the place value of the
                        last letter of the word

if odd number of letters
then &
if even number of letters
then *
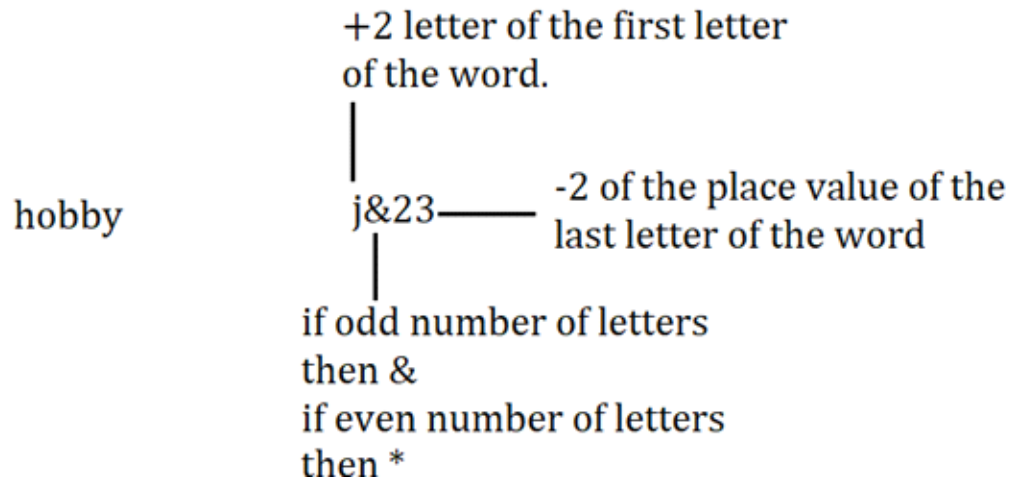
Q.74 Study the following information carefully and answer the questions given below

In a certain code language:
"singing is nice hobby" is coded as "u&5 k*17 p*3 j&23"
"songs good for mind" is coded as "u&17 i*2 h&16 o*2"
"melody creates positive attitude" is coded as "o*23 e&17 r*3 c*3"
"hobby can never regain" is coded as "j&23 e&12 p&16 t*12"

"j*5" is the code for which of the following?

1. hurricane

2. july

3. humble

4. jumping

5. hiring

Ans -5

Solution:

+2 letter of the first letter
of the word.

|

hobby   j&23——— -2 of the place value of the
last letter of the word

|

if odd number of letters
then &
if even number of letters
then *

Q.75 Study the following information carefully and answer the questions given below

In a certain code language:
"singing is nice hobby" is coded as "u&5 k*17 p*3 j&23"
"songs good for mind" is coded as "u&17 i*2 h&16 o*2"
"melody creates positive attitude" is coded as "o*23 e&17 r*3 c*3"
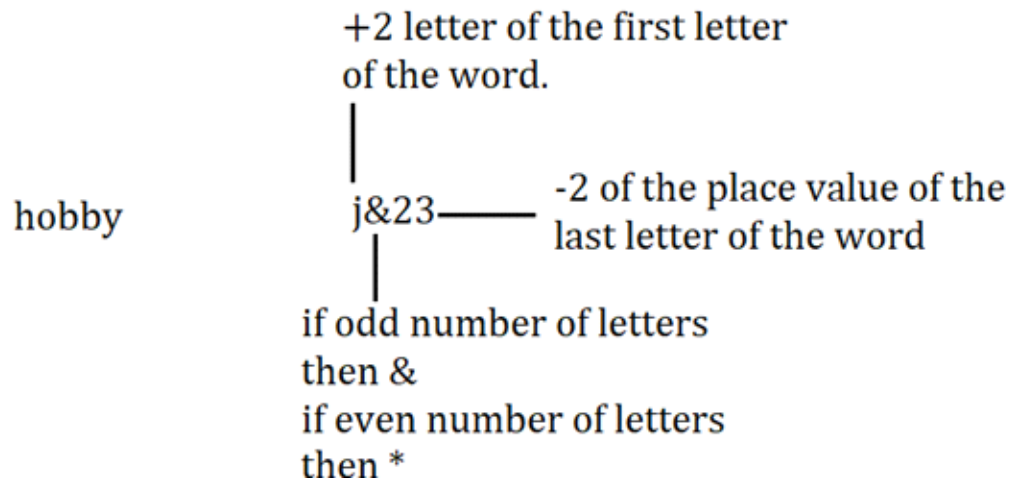"hobby can never regain" is coded as "j&23 e&12 p&16 t*12"

Which of the following correctly matches with the code?

1. melody-e&17

2. singing-k*17

3. mind-o&2

4. never-p&16

5. positive-r*4

Ans -4

Solution:

hobby

j&23

+2 letter of the first letter of the word.

-2 of the place value of the last letter of the word

if odd number of letters then &
if even number of letters then *

Q.76 Study the following information carefully and answer the questions given below.

Eight persons sit around a square table such that four of them sit at the corner of the table and four of them sit at the middle of the table. The one who sits at the corner of the table faces towards the centre

and the one who sits at the middle faces outside the centre. They all like different colors. A sits at one of the corners of the table. The one who likes yellow sits second to the left of A. Only two persons sit between the one who like yellow and R. The one who likes Blue and the one who like orange faces each other. C sits second to the right of D. D is an immediate neighbor of R. C does not like yellow and blue. Q sits third to the right of D. Q does not like green. The one who like green is an immediate neighbor of B. S likes red. S sits second to the left of P. The one who likes grey sits second to the right of the one who likes white. R does not like violet. A doesn't like orange.

Who among the following person likes blue color?

      1. A

      2. B

      3. P

      4. C

      5. None of these

Ans -1

Solution:
Study the following information carefully and answer the questions given below.
Sol. From the given statement, A sits at one of the corners of the table. The one who likes yellow sits second to the left of A. Only two persons sit between the one who like yellow and R. C sits second to the right of D. D is an immediate neighbor of R. C does not like yellow and blue. Q sits third to the right of D. So we have two possible cases:

case-1

case-2

The one who likes Blue and the one who like orange faces each other. S likes red. S sits second to the left of P. hence case-2 is eliminated. The one who like green is an immediate neighbor of B. Q does not like green. The one who likes grey sits second to the right of the one who likes white. R does not like violet. A doesn't like orange. Hence final arrangement is:

Q.77 Study the following information carefully and answer the questions given below.

Eight persons sit around a square table such that four of them sit at the corner of the table and four of them sit at the middle of the table. The one who sits at the corner of the table faces towards the centre and the one who sits at the middle faces outside the centre. They all like different colors. A sits at one of the corners of the table. The one who likes yellow sits second to the left of A. Only two persons sit between the one who like yellow and R. The one who likes Blue and the one who like orange faces each other. C sits second to the right of D. D is an immediate neighbor of R. C does not like yellow and blue. Q sits third to the right of D. Q does not like green. The one who like green is an immediate neighbor of B. S likes red. S sits second to the left of P. The one who likes grey sits second to the right of the one who

likes white. R does not like violet. A doesn't like orange.
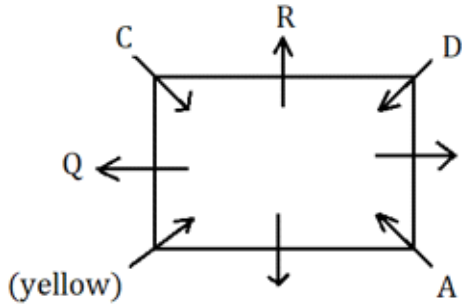
Four of the following five are alike in a certain way and hence form a group, which of the following does not belong to the group?

      1. P-yellow

      2. R-violet

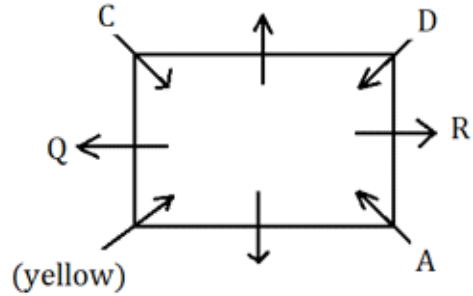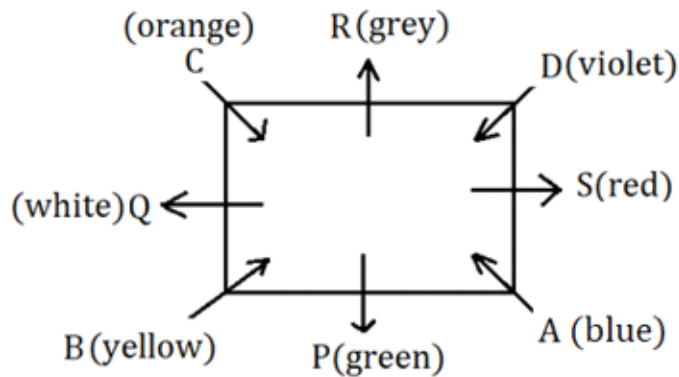   3. C-blue

      4. A-red

      5. D-grey

Ans -3

Solution:
Study the following information carefully and answer the questions given below.
Sol. From the given statement, A sits at one of the corners of the table. The one who likes yellow sits second to the left of A. Only two persons sit between the one who like yellow and R. C sits second to the right of D. D is an immediate neighbor of R. C does not like yellow and blue. Q sits third to the right of D. So we have two possible cases:

case-1

case-2

The one who likes Blue and the one who like orange faces each other. S likes red. S sits second to the left of P. hence case-2 is eliminated. The one who like green is an immediate neighbor of B. Q does not like green. The one who likes grey sits second to the right of the one who likes white. R does not like violet.

A doesn't like orange. Hence final arrangement is:

```
(orange)        R(grey)
   C                          D(violet)
        ↘      ↑       ↙
  ┌──────────────────────┐
  │                      │
(white)Q ←─      ─→ S(red)
  │                      │
        ↗      ↓       ↘
  └──────────────────────┘
 B(yellow)    P(green)     A (blue)
```

Q.78 Study the following information carefully and answer the questions given below.

Eight persons sit around a square table such that four of them sit at the corner of the table and four of them sit at the middle of the table. The one who sits at the corner of the table faces towards the centre and the one who sits at the middle faces outside the centre. They all like different colors. A sits at one of the corners of the table. The one who likes yellow sits second to the left of A. Only two persons sit between the one who like yellow and R. The one who likes Blue and the one who like orange faces each other. C sits second to the right of D. D is an immediate neighbor of R. C does not like yellow and blue. Q sits third to the right of D. Q does not like green. The one who like green is an immediate neighbor of B. S likes red. S sits second to the left of P. The one who likes grey sits second to the right of the one who likes white. R does not like violet. A doesn't like orange.

Who among the following person sits second to the right of the one who likes orange?

    1. D

    2. The one who likes white

    3. P

4. B

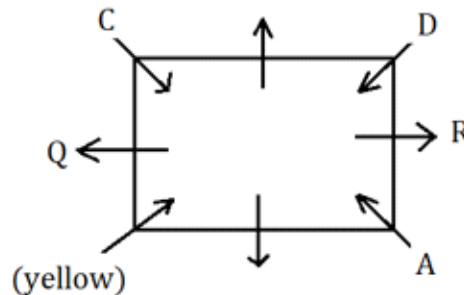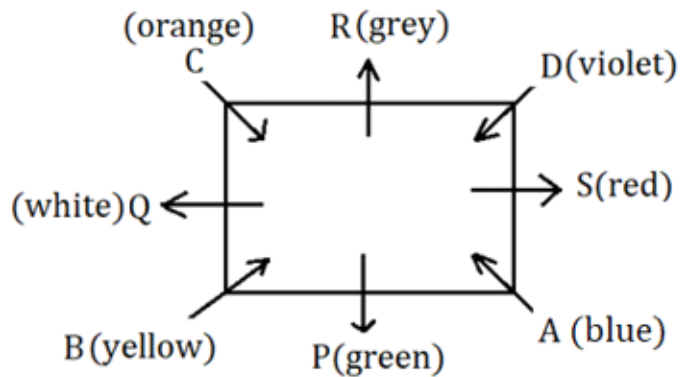5. The one who likes grey

Ans -4

Solution:
Study the following information carefully and answer the questions given below.
Sol. From the given statement, A sits at one of the corners of the table. The one who likes yellow sits second to the left of A. Only two persons sit between the one who like yellow and R. C sits second to the right of D. D is an immediate neighbor of R. C does not like yellow and blue. Q sits third to the right of D. So we have two possible cases:

case-1

case-2

The one who likes Blue and the one who like orange faces each other. S likes red. S sits second to the left of P. hence case-2 is eliminated. The one who like green is an immediate neighbor of B. Q does not like green. The one who likes grey sits second to the right of the one who likes white. R does not like violet. A doesn't like orange. Hence final arrangement is:

Q.79 Study the following information carefully and answer the questions given below.

Eight persons sit around a square table such that four of them sit at the corner of the table and four of them sit at the middle of the table. The one who sits at the corner of the table faces towards the centre and the one who sits at the middle faces outside the centre. They all like different colors. A sits at one of the corners of the table. The one who likes yellow sits second to the left of A. Only two persons sit between the one who like yellow and R. The one who likes Blue and the one who like orange faces each other. C sits second to the right of D. D is an immediate neighbor of R. C does not like yellow and blue. Q sits third to the right of D. Q does not like green. The one who like green is an immediate neighbor of B. S likes red. S sits second to the left of P. The one who likes grey sits second to the right of the one who likes white. R does not like violet. A doesn't like orange.

Who among the following person faces D?

      1. The one who has yellow
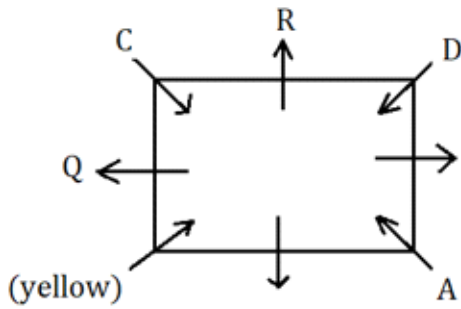
      2. B

      3. A

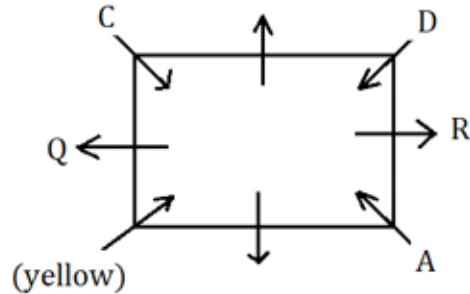   4. Both (a) and(b)

      5. Both (a) and (c)

Ans -4

Solution:
Study the following information carefully and answer the questions given below.
Sol. From the given statement, A sits at one of the corners of the table. The one who likes yellow sits second to the left of A. Only two persons sit between the one who like yellow and R. C sits second to the right of D. D is an immediate neighbor of R. C does not like yellow and blue. Q sits third to the right of D. So we have two possible cases:
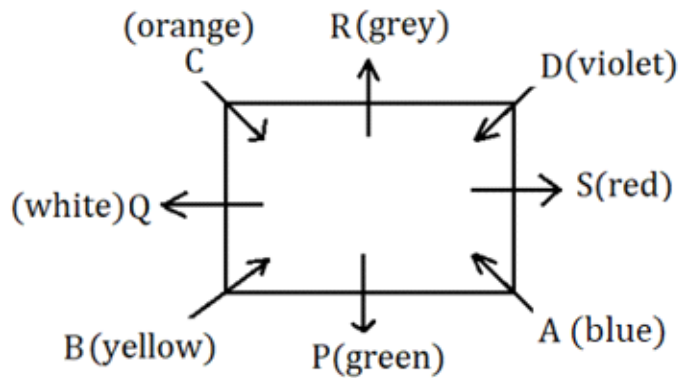
case-1

case-2

The one who likes Blue and the one who like orange faces each other. S likes red. S sits second to the left of P. hence case-2 is eliminated. The one who like green is an immediate neighbor of B. Q does not like green. The one who likes grey sits second to the right of the one who likes white. R does not like violet. A doesn't like orange. Hence final arrangement is:

Q.80 Study the following information carefully and answer the questions given below.

Eight persons sit around a square table such that four of them sit at the corner of the table and four of them sit at the middle of the table. The one who sits at the corner of the table faces towards the centre and the one who sits at the middle faces outside the centre. They all like different colors. A sits at one of the corners of the table. The one who likes yellow sits second to the left of A. Only two persons sit between the one who like yellow and R. The one who likes Blue and the one who like orange faces each other. C sits second to the right of D. D is an immediate neighbor of R. C does not like yellow and blue. Q

sits third to the right of D. Q does not like green. The one who like green is an immediate neighbor of B. S likes red. S sits second to the left of P. The one who likes grey sits second to the right of the one who likes white. R does not like violet. A doesn't like orange.
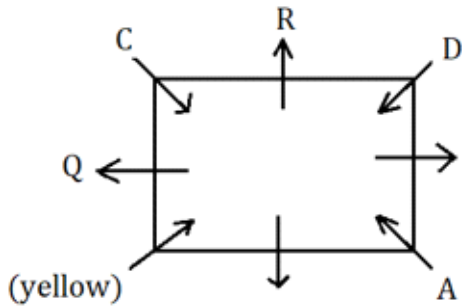
Which of the following is not true regarding R?

      1. R faces outside the centre

      2. C sits immediate left of R

      3. P sits opposite to R

      4. R likes grey
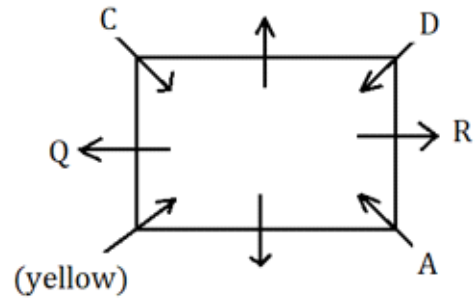
      5. All are true

Ans -5

Solution:
Study the following information carefully and answer the questions given below.
Sol. From the given statement, A sits at one of the corners of the table. The one who likes yellow sits second to the left of A. Only two persons sit between the one who like yellow and R. C sits second to the right of D. D is an immediate neighbor of R. C does not like yellow and blue. Q sits third to the right of D. So we have two possible cases:
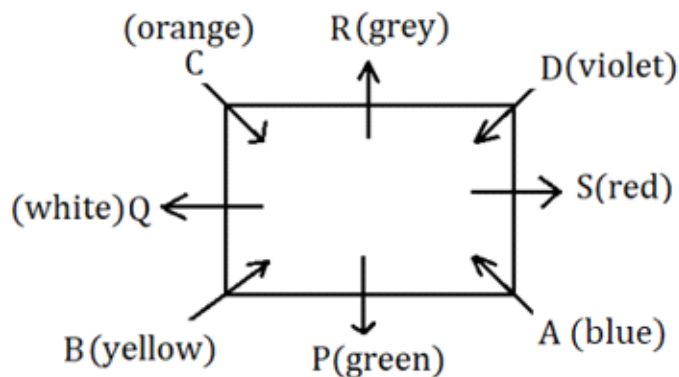

case-1

case-2

The one who likes Blue and the one who like orange faces each other. S likes red. S sits second to the left of P. hence case-2 is eliminated. The one who like green is an immediate neighbor of B. Q does not like

green. The one who likes grey sits second to the right of the one who likes white. R does not like violet. A doesn't like orange. Hence final arrangement is:

Q.81 In each of the questions below. Some statements are given followed by conclusions/group of conclusions. You have to assume all the statements to be true even if they seem to be at variance from the commonly known facts and then decide which of the given conclusions logically follow from the information given in the statements:

Statement:
Only a few treasure is hunt.
All hunt is garden.
Only garden is mess.
Conclusions
I. Some hunt can be mess.
II. All garden can be treasure.

1. If only conclusion I follows.

2. If only conclusion II follows.

3. If either conclusion I or II follows.

4. If neither conclusion I nor II follows.

5. If both conclusions I and II follow.

Ans -4

Solution:
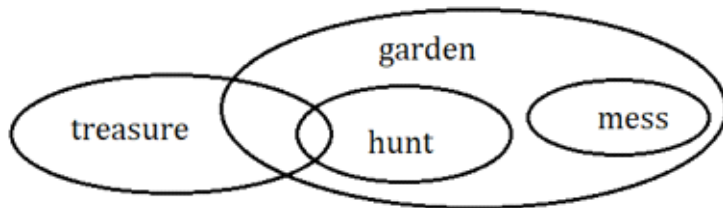
Q.82 In each of the questions below. Some statements are given followed by conclusions/group of conclusions. You have to assume all the statements to be true even if they seem to be at variance from the commonly known facts and then decide which of the given conclusions logically follow from the information given in the statements:

Statement:
Only father is brother.
Some father is mother.
Some mother is son.
Conclusions:
I. Some son is father
II. No son is father.

1. If only conclusion I follows.

2. If only conclusion II follows.

3. If either conclusion I or II follows.

4. If neither conclusion I nor II follows.

5. If both conclusions I and II follow.

Ans -3

Solution:
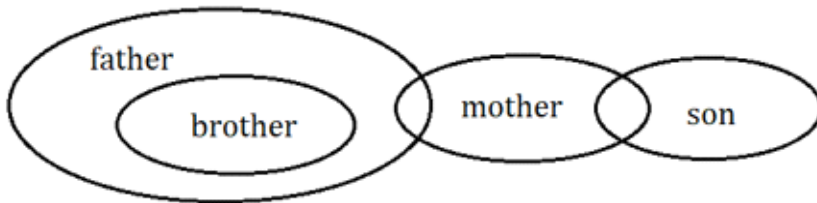
Q.83 In each of the questions below. Some statements are given followed by conclusions/group of conclusions. You have to assume all the statements to be true even if they seem to be at variance from the commonly known facts and then decide which of the given conclusions logically follow from the information given in the statements:

Statements:
Only a few ginger is garlic.
Only a few garden is ginger.
Some grass is ginger.
Conclusions:
I. Some ginger is not garden.
II. Some grass is garlic.

1. If only conclusion I follows.

2. If only conclusion II follows.

3. If either conclusion I or II follows.

4. If neither conclusion I nor II follows.

5. If both conclusions I and II follow.

Ans -4

Solution:
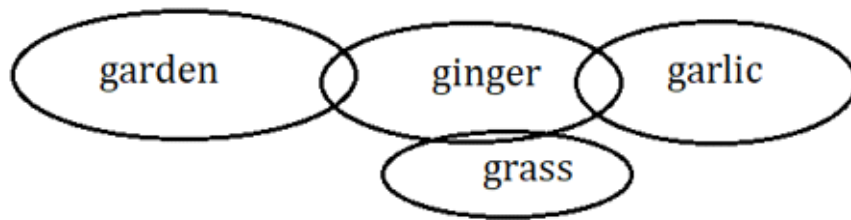
Q.84 Study the following information carefully and answer the questions given below:

Ten boxes are placed one above another. Only four boxes are kept above Y. Only two boxes are kept between Y and A. Only one box is kept between A and B. E is kept immediately above V and immediately below X. Only two boxes are kept between X and Z which is kept above Y. C is kept above W and below D. Box D does not kept below Y.

Which of the following box is kept at second position from the topmost position?

1. W

2. D

3. A

4. C

5. None of these

Ans -3

Solution:
It is given that; Only four boxes are kept above Y. Only two boxes are kept between Y and A. Here we have two possible cases. Only one box is kept between A and B. Here we have one more possible case:

Case-1	Case-2	Case-2a
Boxes	Boxes	Boxes
A		
B		
Y	Y	Y
		B
	A	A
	B	

E is kept immediately above V and immediately below X. Only two boxes are kept between X and Z which is kept above Y. C is kept above W and below D. Box D does not kept below Y. Here case2 and case2a get ruled out. So, final arrangement will be.

Boxes
D
A
Z
B
Y
X
E
V
C
W

Q.85 Study the following information carefully and answer the questions given below:

Ten boxes are placed one above another. Only four boxes are kept above Y. Only two boxes are kept between Y and A. Only one box is kept between A and B. E is kept immediately above V and immediately below X. Only two boxes are kept between X and Z which is kept above Y. C is kept above W and below D. Box D does not kept below Y.

How many boxes are kept between D and the one which is kept immediately below Y?

1. One

2. None

3. Three

4. Two

5. More than three

Ans -5

Solution:
It is given that; Only four boxes are kept above Y. Only two boxes are kept between Y and A. Here we have two possible cases. Only one box is kept between A and B. Here we have one more possible case:

Case-1	Case-2	Case-2a
Boxes	Boxes	Boxes
A		
B		
Y	Y	Y
		B
	A	A
	B	

E is kept immediately above V and immediately below X. Only two boxes are kept between X and Z which is kept above Y. C is kept above W and below D. Box D does not kept below Y. Here case2 and case2a get ruled out. So, final arrangement will be.

Boxes
D
A
Z
B
Y
X
E
V
C
W

Q.86 Study the following information carefully and answer the questions given below:

Ten boxes are placed one above another. Only four boxes are kept above Y. Only two boxes are kept between Y and A. Only one box is kept between A and B. E is kept immediately above V and immediately below X. Only two boxes are kept between X and Z which is kept above Y. C is kept above W and below D. Box D does not kept below Y.

Which of the following pair of boxes is kept immediately above and immediately below C respectively?

    1. X, E

    2. W, V

    3. V, W

    4. Y,W

    5. None of these

Ans -3

Solution:
It is given that; Only four boxes are kept above Y. Only two boxes are kept between Y and A. Here we have two possible cases. Only one box is kept between A and B. Here we have one more possible case:

Case-1	Case-2	Case-2a
Boxes	Boxes	Boxes
A		
B		
Y	Y	Y
		B
	A	A
	B	

E is kept immediately above V and immediately below X. Only two boxes are kept between X and Z which is kept above Y. C is kept above W and below D. Box D does not kept below Y. Here case2 and case2a get ruled out. So, final arrangement will be.

Boxes
D
A
Z
B
Y
X
E
V
C
W

Q.87 Study the following information carefully and answer the questions given below:

Ten boxes are placed one above another. Only four boxes are kept above Y. Only two boxes are kept between Y and A. Only one box is kept between A and B. E is kept immediately above V and immediately

below X. Only two boxes are kept between X and Z which is kept above Y. C is kept above W and below D. Box D does not kept below Y.

Four of the following five are alike in a certain way and hence form a group which of the following does not belong to the group?

1. D-Z

2. B-E

3. X-V

4. Y-E

5. A-B

Ans -2

Solution:
It is given that; Only four boxes are kept above Y. Only two boxes are kept between Y and A. Here we have two possible cases. Only one box is kept between A and B. Here we have one more possible case:

Case-1	Case-2	Case-2a
Boxes	Boxes	Boxes
A		
B		
Y	Y	Y
		B
	A	A
	B	

E is kept immediately above V and immediately below X. Only two boxes are kept between X and Z

which is kept above Y. C is kept above W and below D. Box D does not kept below Y. Here case2 and case2a get ruled out. So, final arrangement will be.

Boxes
D
A
Z
B
Y
X
E
V
C
W

Q.88 Study the following information carefully and answer the questions given below:

Ten boxes are placed one above another. Only four boxes are kept above Y. Only two boxes are kept between Y and A. Only one box is kept between A and B. E is kept immediately above V and immediately below X. Only two boxes are kept between X and Z which is kept above Y. C is kept above W and below D. Box D does not kept below Y.

If A is related to Y, X is related to C then in the same manner B is related to____?

        1. E

        2. Z

        3. D

        4. W

5. V

Ans -1

Solution:
It is given that; Only four boxes are kept above Y. Only two boxes are kept between Y and A. Here we have two possible cases. Only one box is kept between A and B. Here we have one more possible case:

Case-1	Case-2	Case-2a
Boxes	Boxes	Boxes
A		
B		
Y	Y	Y
		B
	A	A
	B	

E is kept immediately above V and immediately below X. Only two boxes are kept between X and Z which is kept above Y. C is kept above W and below D. Box D does not kept below Y. Here case2 and case2a get ruled out. So, final arrangement will be.

Boxes
D
A
Z
B
Y
X
E
V
C
W

Q.89 In these questions, relationship between different elements is show in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

Statements:
$A > M \geq L < K; Y = T \leq L; D > P$
Conclusions:
I. $A > L$
II. $K = Y$

1. If only conclusion II follows.

2. If only conclusion I follows.

3. If either conclusion I or II follows.

4. If neither conclusion I nor II follows.

5. If both conclusions I and II follow.

Ans -2

Solution:
I. $A > L$ (True)
II. $K = Y$ (False)

Q.90 In these questions, relationship between different elements is show in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

Statements:
$R > W \le Q < P \le L; W > H \ge V = C$
Conclusions:
I. $Q > C$
II. $W < L$

1. If only conclusion II follows.

2. If only conclusion I follows.

3. If either conclusion I or II follows.

4. If both conclusions I and II follow.

5. If neither conclusion I nor II follows.

Ans -4

Solution:
I. $Q > C$ (True)
II. $W < L$ (True)

Q.91 In these questions, relationship between different elements is show in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

Statements:
$D \geq F = K \leq L \leq Q = U \geq S > A$

Conclusions:
I. $F > Q$
II. $L < U$

1. If only conclusion II follows.

2. If neither conclusion I nor II follows.

3. If either conclusion I or II follows.

4. If both conclusions I and II follow.

5. If only conclusion I follows.

Ans -2

Solution:
I. $F > Q$ (False)
II. $L < U$ (False)

Q.92 Each of the questions below consists of a question and two statements marked I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

Among six friends A, B, C, D, E and F, who gets the lowest marks?

I. A and D get less marks than B, E and F but none of them gets lowest marks.
II. A gets less marks than D but more marks than C.

1. If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

2. If the data in statements I alone are not sufficient to answer the question, while the data in statement II alone are sufficient to answer the question

3. If the data either in statement I or in statement II alone are sufficient to answer the question

4. If the data even in both the statements I and II together are not sufficient to answer the question.

5. If the data in both statements I and II together are needed to answer the question.

Ans -1

Solution: From I it is clear that C gets the lowest marks.
B/E/F > B/E/F > B/E/F > A/D > A/D > C

Q.93 Each of the questions below consists of a question and two statements marked I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

On which date in March, Rohan celebrates his marriage anniversary when 1st March is Monday (Week start from Monday to Sunday)?

I. Rohan's wife correctly remember that their anniversary is in Third week of March .
II. Rohan's brother correctly remember that his anniversary is on last day of third week of March.

1. If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

2. If the data in statements I alone are not sufficient to answer the question, while the data in statement II alone are sufficient to answer the question

3. If the data either in statement I or in statement II alone are sufficient to answer the question

4. If the data even in both the statements I and II together are not sufficient to answer the question.

5. If the data in both statements I and II together are needed to answer the question.

Ans -2

Solution: From II it is clear that Rohan's marriage anniversary is on 21st March.

Q.94 Each of the questions below consists of a question and two statements marked I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

How is 'never' written in a code language?

I. 'just never hurt' is written as 'mi ke wr' in that code language.
II. 'bird hurt just animal' is written as 'mi pb gh wr' in that code language.

1. If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

2. If the data in statements I alone are not sufficient to answer the question, while the data in statement II alone are sufficient to answer the question

3. If the data either in statement I or in statement II alone are sufficient to answer the question

4. If the data even in both the statements I and II together are not sufficient to answer the question.

5. If the data in both statements I and II together are needed to answer the question.

Ans -5

Solution: From I and II it is clear that 'never' will coded as 'ke

Q.95 Five members in a family have different heights. There is only one couple in the family. The oldest persons of the family is the tallest one. C who is a female is shorter than her husband and taller than her daughter D. E is the brother of D. B is the father of D. B is second tallest person in the family. A who is the father-in-law of C is 70cm tall. Height of the shortest member is 65cm. D is 2cm taller than the shortest member. Find out the height of B if height of B is average of the height of A and D?

1. 69cm

2. 69.5cm

3. 67cm

4. 68.5cm

5. None of these

Ans -4

Q.96 Study the following information carefully and answer the questions given below:

There are eight persons i.e. A, B, C, D, E, F, G and H living in an eight-floor building but not neccessarily in the same order. Ground floor is numbered as 1, just above the floor is numbered as 2 and so on until the top most floor is numbered as 8. All of them like different colours viz. red, blue, green, yellow, pink, orange, white and black . All the information is not necessarily in the same order.
At least five persons live above the floor in which G lives. There are two persons live between the persons who like yellow and blue, who lives just above of G's floor. H likes white and lives just below the floor who likes yellow. C lives just below the floor of the one who likes orange, who lives just below of A's floor. There is more than one floor gap between A and H. F lives just above the floor of the one who likes black and lives on an odd numbered floor. The number of floor gap between E and B is same as between B and D, who likes pink. A does not like green.

Who among the following likes green?

1. E

2. C

3. B

4. F

5. None of these

Ans -3

Solution:
From the given statements, At least five persons live above the floor in which G lives. Here, we get three possibilities i.e. Case 1, Case 2 and Case 3. There are two persons live between the persons who like yellow and blue, who lives just above of G's floor. H likes white and lives just below of the floor who likes yellow.

	Case1		Case 2		Case 3	
Floors	Persons	Colours	Persons	Colours	Persons	Colours
8						
7		yellow				
6	H	white		yellow		
5			H	white		Yellow
4		blue			H	White
3	G			blue		
2			G			Blue
1					G	

From the given statements, C lives just below floor of the one who likes orange, who lives just below of A's floor. There is more than one floor gap between A and H. Now Case 1 is ruled out and one more possibility added i.e. Case 3a.

	Case 2		Case 3		Case 3a	
Floors	Persons	Colours	Persons	Colours	Persons	Colours
8	A		A			
7		orange		orange	A	
6	C	yellow	C			orange
5	H	white		Yellow	C	Yellow
4			H	White	H	White
3		Blue				
2	G			Blue		Blue
1			G		G	

From the given statements, F lives just above the floor of the one who likes black and lives on an odd numbered floor. Here Case 3a is ruled out now.

	Case 2		Case 3	
Floors	Persons	Colours	Persons	Colours
8	A		A	
7		orange	F	orange
6	C	yellow	C	Black
5	H	white		yellow
4			H	White
3	F	Blue		
2	G	Black		Blue
1			G	

From the given statements, the number of floor gap between E and B is same as between B and D, who likes pink. Here Case 3 is ruled out now. A does not like green.
So, the final arrangement is such as –

Floors	Persons	Colours
8	A	Red
7	E	Orange
6	C	Yellow
5	H	white
4	B	green
3	F	blue
2	G	black
1	D	pink

Q.97 Study the following information carefully and answer the questions given below:

There are eight persons i.e. A, B, C, D, E, F, G and H living in an eight-floor building but not neccessarily in the same order. Ground floor is numbered as 1, just above the floor is numbered as 2 and so on until the top most floor is numbered as 8. All of them like different colours viz. red, blue, green, yellow, pink, orange, white and black . All the information is not necessarily in the same order.
At least five persons live above the floor in which G lives. There are two persons live between the persons who like yellow and blue, who lives just above of G's floor. H likes white and lives just below the floor who likes yellow. C lives just below the floor of the one who likes orange, who lives just below of A's floor. There is more than one floor gap between A and H. F lives just above the floor of the one who likes black and lives on an odd numbered floor. The number of floor gap between E and B is same as between B and D, who likes pink. A does not like green.

How many persons are living between F and C, as per the given information?

1. None

2. One

3. Three

4. Four

5. None of these

Ans -5

Solution:
From the given statements, At least five persons live above the floor in which G lives. Here, we get three possibilities i.e. Case 1, Case 2 and Case 3. There are two persons live between the persons who like yellow and blue, who lives just above of G's floor. H likes white and lives just below of the floor who likes yellow.

Floors	Case1 Persons	Case1 Colours	Case 2 Persons	Case 2 Colours	Case 3 Persons	Case 3 Colours
8						
7		yellow				
6	H	white		yellow		
5			H	white		Yellow
4		blue			H	White
3	G			blue		
2			G			Blue
1					G	

From the given statements, C lives just below floor of the one who likes orange, who lives just below of A's floor. There is more than one floor gap between A and H. Now Case 1 is ruled out and one more possibility added i.e. Case 3a.

Floors	Case 2 Persons	Case 2 Colours	Case 3 Persons	Case 3 Colours	Case 3a Persons	Case 3a Colours
8	A		A			
7		orange		orange	A	
6	C	yellow	C			orange
5	H	white		Yellow	C	Yellow
4			H	White	H	White
3		Blue				
2	G			Blue		Blue
1			G		G	

From the given statements, F lives just above the floor of the one who likes black and lives on an odd numbered floor. Here Case 3a is ruled out now.

Floors	Case 2 Persons	Case 2 Colours	Case 3 Persons	Case 3 Colours
8	A		A	
7		orange	F	orange
6	C	yellow	C	Black
5	H	white		yellow
4			H	White
3	F	Blue		
2	G	Black		Blue
1			G	

From the given statements, the number of floor gap between E and B is same as between B and D, who

likes pink. Here Case 3 is ruled out now. A does not like green.
So, the final arrangement is such as –

Floors	Persons	Colours
8	A	Red
7	E	Orange
6	C	Yellow
5	H	white
4	B	green
3	F	blue
2	G	black
1	D	pink

Q.98 Study the following information carefully and answer the questions given below:

There are eight persons i.e. A, B, C, D, E, F, G and H living in an eight-floor building but not neccessarily in the same order. Ground floor is numbered as 1, just above the floor is numbered as 2 and so on until the top most floor is numbered as 8. All of them like different colours viz. red, blue, green, yellow, pink, orange, white and black . All the information is not necessarily in the same order.
At least five persons live above the floor in which G lives. There are two persons live between the persons who like yellow and blue, who lives just above of G's floor. H likes white and lives just below the floor who likes yellow. C lives just below the floor of the one who likes orange, who lives just below of A's floor. There is more than one floor gap between A and H. F lives just above the floor of the one who likes black and lives on an odd numbered floor. The number of floor gap between E and B is same as between B and D, who likes pink. A does not like green.

Who among the following person lives on 6th floor?

        1. A

        2. C

        3. H

4. B

5. G

Ans -2

Solution:
From the given statements, At least five persons live above the floor in which G lives. Here, we get three possibilities i.e. Case 1, Case 2 and Case 3. There are two persons live between the persons who like yellow and blue, who lives just above of G's floor. H likes white and lives just below of the floor who likes yellow.

	Case1		Case 2		Case 3	
Floors	Persons	Colours	Persons	Colours	Persons	Colours
8						
7		yellow				
6	H	white		yellow		
5			H	white		Yellow
4		blue			H	White
3	G			blue		
2			G			Blue
1					G	

From the given statements, C lives just below floor of the one who likes orange, who lives just below of A's floor. There is more than one floor gap between A and H. Now Case 1 is ruled out and one more possibility added i.e. Case 3a.

	Case 2		Case 3		Case 3a	
Floors	Persons	Colours	Persons	Colours	Persons	Colours
8	A		A			
7		orange		orange	A	
6	C	yellow	C			orange
5	H	white		Yellow	C	Yellow
4			H	White	H	White
3		Blue				
2	G			Blue		Blue
1			G		G	

From the given statements, F lives just above the floor of the one who likes black and lives on an odd numbered floor. Here Case 3a is ruled out now.

Floors	Case 2 Persons	Case 2 Colours	Case 3 Persons	Case 3 Colours
8	A		A	
7		orange	F	orange
6	C	yellow	C	Black
5	H	white		yellow
4			H	White
3	F	Blue		
2	G	Black		Blue
1			G	

From the given statements, the number of floor gap between E and B is same as between B and D, who likes pink. Here Case 3 is ruled out now. A does not like green.

So, the final arrangement is such as –

Floors	Persons	Colours
8	A	Red
7	E	Orange
6	C	Yellow
5	H	white
4	B	green
3	F	blue
2	G	black
1	D	pink

Q.99 Study the following information carefully and answer the questions given below:

There are eight persons i.e. A, B, C, D, E, F, G and H living in an eight-floor building but not neccessarily in the same order. Ground floor is numbered as 1, just above the floor is numbered as 2 and so on until the top most floor is numbered as 8. All of them like different colours viz. red, blue, green, yellow, pink, orange, white and black . All the information is not necessarily in the same order.
At least five persons live above the floor in which G lives. There are two persons live between the persons who like yellow and blue, who lives just above of G's floor. H likes white and lives just below the floor who likes yellow. C lives just below the floor of the one who likes orange, who lives just below of A's floor. There is more than one floor gap between A and H. F lives just above the floor of the one who likes black and lives on an odd numbered floor. The number of floor gap between E and B is same as between B and D, who likes pink. A does not like green.

Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?

1. A

2. C

3. B

4. G

5. E

Ans -5

Solution:
From the given statements, At least five persons live above the floor in which G lives. Here, we get three possibilities i.e. Case 1, Case 2 and Case 3. There are two persons live between the persons who like yellow and blue, who lives just above of G's floor. H likes white and lives just below of the floor who likes yellow.

Floors	Case1 Persons	Case1 Colours	Case 2 Persons	Case 2 Colours	Case 3 Persons	Case 3 Colours
8						
7		yellow				
6	H	white		yellow		
5			H	white		Yellow
4		blue			H	White
3	G			blue		
2			G			Blue
1					G	

From the given statements, C lives just below floor of the one who likes orange, who lives just below of A's floor. There is more than one floor gap between A and H. Now Case 1 is ruled out and one more possibility added i.e. Case 3a.

| | Case 2 | | Case 3 | | Case 3a | |
Floors	Persons	Colours	Persons	Colours	Persons	Colours
8	A		A			
7		orange		orange	A	
6	C	yellow	C			orange
5	H	white		Yellow	C	Yellow
4			H	White	H	White
3		Blue				
2	G			Blue		Blue
1			G		G	

From the given statements, F lives just above the floor of the one who likes black and lives on an odd numbered floor. Here Case 3a is ruled out now.

| | Case 2 | | Case 3 | |
Floors	Persons	Colours	Persons	Colours
8	A		A	
7		orange	F	orange
6	C	yellow	C	Black
5	H	white		yellow
4			H	White
3	F	Blue		
2	G	Black		Blue
1			G	

From the given statements, the number of floor gap between E and B is same as between B and D, who likes pink. Here Case 3 is ruled out now. A does not like green.

So, the final arrangement is such as –

Floors	Persons	Colours
8	A	Red
7	E	Orange
6	C	Yellow
5	H	white
4	B	green
3	F	blue
2	G	black
1	D	pink

Q.100 Study the following information carefully and answer the questions given below:

There are eight persons i.e. A, B, C, D, E, F, G and H living in an eight-floor building but not neccessarily in the same order. Ground floor is numbered as 1, just above the floor is numbered as 2 and so on until the top most floor is numbered as 8. All of them like different colours viz. red, blue, green, yellow, pink, orange, white and black . All the information is not necessarily in the same order.

At least five persons live above the floor in which G lives. There are two persons live between the persons who like yellow and blue, who lives just above of G's floor. H likes white and lives just below the floor who likes yellow. C lives just below the floor of the one who likes orange, who lives just below of A's floor. There is more than one floor gap between A and H. F lives just above the floor of the one who likes black and lives on an odd numbered floor. The number of floor gap between E and B is same as between B and D, who likes pink. A does not like green.

Who among the following person lives just above the floor in which H lives?

        1. A

        2. C

        3. F

        4. G

        5. None of these

Ans -2

Solution:
From the given statements, At least five persons live above the floor in which G lives. Here, we get three possibilities i.e. Case 1, Case 2 and Case 3. There are two persons live between the persons who like yellow and blue, who lives just above of G's floor. H likes white and lives just below of the floor who likes yellow.

	Case 1		Case 2		Case 3	
Floors	Persons	Colours	Persons	Colours	Persons	Colours
8						
7		yellow				
6	H	white		yellow		
5			H	white		Yellow
4		blue			H	White
3	G			blue		
2			G			Blue
1					G	

From the given statements, C lives just below floor of the one who likes orange, who lives just below of A's floor. There is more than one floor gap between A and H. Now Case 1 is ruled out and one more possibility added i.e. Case 3a.

	Case 2		Case 3		Case 3a	
Floors	Persons	Colours	Persons	Colours	Persons	Colours
8	A		A			
7		orange		orange	A	
6	C	yellow	C			orange
5	H	white		Yellow	C	Yellow
4			H	White	H	White
3		Blue				
2	G			Blue		Blue
1			G		G	

From the given statements, F lives just above the floor of the one who likes black and lives on an odd numbered floor. Here Case 3a is ruled out now.

	Case 2		Case 3	
Floors	Persons	Colours	Persons	Colours
8	A		A	
7		orange	F	orange
6	C	yellow	C	Black
5	H	white		yellow
4			H	White
3	F	Blue		
2	G	Black		Blue
1			G	

From the given statements, the number of floor gap between E and B is same as between B and D, who likes pink. Here Case 3 is ruled out now. A does not like green.

So, the final arrangement is such as –

Floors	Persons	Colours
8	A	Red
7	E	Orange
6	C	Yellow
5	H	white
4	B	green
3	F	blue
2	G	black
1	D	pink