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# OAVS TGT

## Previous Year Paper
### (Maths) 11 Mar, 2017
### Shift 1

| Roll No: | |
|---|---|
| Participants Name: | |
| Test Center Name: | |
| Test Date: | 11/03/2017 |
| Test Time: | 9:00 AM - 12:30 PM |

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Section : **Language Proficiency Test - General English**

**Q.1** "What a delicious dish!"

Choose the alternative, which changes the above exclamatory sentence into assertive sentence.

**Ans**
- ✗ 1. It will be a delicious dish.
- ✗ 2. Is it a delicious dish?
- ✔ 3. It is a delicious dish.
- ✗ 4. What is a delicious dish?

> Question ID : **473941420**
> Status : **Answered**
> Chosen Option : **4**

**Q.2** Which of the following is the least important while training the students in public speaking and debate?

**Ans**
- ✗ 1. Use language effectively and creatively
- ✗ 2. Stress, Intonation and Modulation of voice
- ✗ 3. The concept of the topic
- ✔ 4. Control of emotions and expressions

> Question ID : **473941415**
> Status : **Answered**
> Chosen Option : **3**

**Q.3** Shakespeare's has written his sonnets in _____ lines.

**Ans**
- ✔ 1. 14
- ✗ 2. 12
- ✗ 3. 10
- ✗ 4. 16

> Question ID : **473941409**
> Status : **Not Attempted**
> Chosen Option : **--**

**Q.4** Rearrange the following four sentences, (A, B, C and D) into a meaningful paragraph then choose the alternative of the correct sequence.

A) This beautiful lady is actually a witch who has enraptured and bewitched a knight with her beauty.
B) La Belle Dame Sans Merci is the title of a very popular Ballad, written by John Keats.
C) She has already snared a number of knights, princes and young warriors like him.
D) It means The Beautiful Lady without Merci.

The proper sequence should be:

**Ans**
- ✗ 1. DABC
- ✗ 2. CADB
- ✗ 3. BCAD
- ✔ 4. BDAC

> Question ID : **473941421**
> Status : **Answered**
> Chosen Option : **4**

**Q.5** Choose the alternative, which has grammatically correct sentence.

**Ans**
- ✔ 1.
  No sooner had she finished one project than she started working on the next.
- ✗ 2.
  No sooner had she finished one project than she will start working on the next.

> Question ID : **473941423**
> Status : **Answered**
> Chosen Option : **3**

✗ 3.
No sooner had she finish one project than she started working on the next.

✗ 4.
No sooner had she finished one project then she started working on the next.

---

**Q.6** Choose the correct alternative that completes the following dialogue:

Arjun: Excuse me, sir. I see you have a room for rent. Is the room available
Banu: ____(i)_____ Are you interested in renting the room?
Arjun: Yes, but I'd like to take a look at it first.
Banu: Certainly, _____(ii)_____

**Ans** ✗ 1.
(i) I'll tell you another day (ii) You are invited to my house.

✔ 2. (i) It is; (ii) Please come this way.

✗ 3. (i) I'm not sure (ii) Please come this way.

✗ 4.
(i) I'm sorry, it's been taken (ii) Ask your friend to come.

---

**Q.7** Iambic pentameter is a commonly used term English poetry and drama. The term 'iamb' is:

**Ans** ✗ 1. Rhyme of each line in poem

✗ 2. Imagery used in the poem

✔ 3.
a metrical unit with unstressed-stressed syllables

✗ 4.
the combination vowel and consonant syllables

---

**Q.8** Complete the sentence:

"Which of the following _____ as urban legend?"

**Ans** ✗ 1. cannot classifying

✗ 2. cannot classify

✗ 3. cannot be classify

✔ 4. cannot be classified

---

**Q.9** "She has written perfectly wrong answers."

This sentence is an example of a/an:

**Ans** ✔ 1. Oxymoron

✗ 2. Personification

✗ 3. Hyperbole

✗ 4. Alliteration

---

**Q.10** According to Bloom's Taxonomy, intellectual capability is related to:

**Ans** ✗ 1. Affective domain

✔ 2. Cognitive domain

✗ 3. All of the given options

✗ 4. Psychomotor domain

---

**Q.11**

She said to me, "Are you coming with us?"

Choose the alternative, which expresses the above active voice sentence in passive voice.

Ans ✔ 1. She asked me if I was going with them.

✗ 2. She asked me if I am going with them.

✗ 3. She asked me if I go with them.

✗ 4. She asked me if I were going with them.

**Q.12** In Poetry, Blank verse refers to:

Question ID : **473941411**
Status : **Not Attempted**
Chosen Option : **--**

Ans ✗ 1. Poetry with epic simile

✗ 2. Poetry with rhyme

✔ 3. Poetry without rhyme

✗ 4. Poetry with symbolism

**Q.13** "The principal hesitated to assign the duties to new coach as he was wet behind the ears."

Identify the meaning of the idiom: "wet behind the ears."

Question ID : **473941417**
Status : **Answered**
Chosen Option : **3**

Ans ✗ 1. Lethargic

✗ 2. Not very clever

✔ 3. Inexperienced

✗ 4. Wet in the rain

**Q.14** Giving home work is important because:

Question ID : **473941414**
Status : **Answered**
Chosen Option : **2**

Ans ✗ 1. it keeps the students entertained

✔ 2. it develops the habit of self-study

✗ 3. it keeps the students busy at home

✗ 4.
Homework encourages students to waste time at home

**Comprehension:**

Read the following passage and answer the question given below.

Persuasion is the art of convincing someone to agree with your point of view. According to the ancient Greek philosopher Aristotle, there are three basic tools of persuasion: ethos, pathos, and logos. Ethos is a speaker's way of convincing the audience that she is a credible source. An audience will consider a speaker credible if she seems trustworthy, reliable, and sincere. This can be done in many ways. For example, a speaker can develop ethos by explaining how much experience or education she has in the field. After all, you would be more likely to listen to advice about how to take care of your teeth from a dentist than a firefighter. A speaker can also create ethos by convincing the audience that she is a good person who has their best interests at heart. If an audience cannot trust you, you will not be able to persuade them. Pathos is a speaker's way of connecting with an audience's emotions. For example, a speaker who is trying to convince an audience to vote for him might say that he alone can save the country from a terrible war. These words are intended to fill the audience with fear, thus making them want to vote for him. Similarly, a charity organization that helps animals might show an audience pictures of injured dogs and cats. These images are intended to fill the viewers with pity. If the audience feels bad for the animals, they will be more likely to donate money. Logos is the use of facts, information, statistics, or other evidence to make your argument more convincing. An audience will be more likely to believe you if you have data to back up your claims. For example, a commercial for soap might tell you that laboratory tests have shown that their soap kills all 7,000,000 of the bacteria living on your hands right now. This piece of information might make you more likely to buy their brand of soap. Presenting this evidence is much more convincing than simply saying "our soap is the best!" Use of logos can also increase a speaker's ethos; the more facts a speaker includes in his argument, the more likely you are to think that he is educated and trustworthy. Although ethos, pathos, and logos all have their strengths, they are often most effective when they are used together. Indeed, most speakers use a combination of ethos, pathos, and logos to persuade their audiences. The next time you listen to a speech, watch a commercial, or listen to a friend try to convince you to lend him some money, be on the lookout for these ancient Greek tools of persuasion.

**SubQuestion No : 15**

An opposition party leader said, "Under the present government, there has been an increase of 12% in unemployment. I am sure, this will increase by another 10% in next 1 year. When we were in power, we brought 24 new companies and created more than 8450 new jobs. Please trust me, if we are elected again, we will bring 100 more companies to the state and bring the unemployment rate to 0%." Which form of persuasion is the politician using here?

I.   pathos
II.  logos
III. ethos

Ans
✓ 1. I, II and III
✗ 2. II and III only
✗ 3. I only
✗ 4. I and II only

**Comprehension:**

Read the following passage and answer the question given below.

Persuasion is the art of convincing someone to agree with your point of view. According to the ancient Greek philosopher Aristotle, there are three basic tools of persuasion: ethos, pathos, and logos. Ethos is a speaker's way of convincing the audience that she is a credible source. An audience will consider a speaker credible if she seems trustworthy, reliable, and sincere. This can be done in many ways. For example, a speaker can develop ethos by explaining how much experience or education she has in the field. After all, you would be more likely to listen to advice about how to take care of your teeth from a dentist than a firefighter. A speaker can also create ethos by convincing the audience that she is a good person who has their best interests at heart. If an audience cannot trust you, you will not be able to persuade them. Pathos is a speaker's way of connecting with an audience's emotions. For example, a speaker who is trying to convince an audience to vote for him might say that he alone can save the country from a terrible war. These words are intended to fill the audience with fear, thus making them want to vote for him. Similarly, a charity organization that helps animals might show an audience pictures of injured dogs and cats. These images are intended to fill the viewers with pity. If the audience feels bad for the animals, they will be more likely to donate money. Logos is the use of facts, information, statistics, or other evidence to make your argument more convincing. An audience will be more likely to believe you if you have data to back up your claims. For example, a commercial for soap might tell you that laboratory tests have shown that their soap kills all 7,000,000 of the bacteria living on your hands right now. This piece of information might make you more likely to buy their brand of soap. Presenting this evidence is much more convincing than simply saying "our soap is the best!" Use of logos can also increase a speaker's ethos; the more facts a speaker includes in his argument, the more likely you are to think that he is educated and trustworthy. Although ethos, pathos, and logos all have their strengths, they are often most effective when they are used together. Indeed, most speakers use a combination of ethos, pathos, and logos to persuade their audiences. The next time you listen to a speech, watch a commercial, or listen to a friend try to convince you to lend him some money, be on the lookout for these ancient Greek tools of persuasion.

**SubQuestion No : 16**

According to the passage, the most effective of persuasion is:

Ans  ✔ 1.  a combination of ethos, pathos, and logos

✗ 2.

ethos, because you cannot persuade an audience that does not trust you

✗ 3.

pathos, because human beings are most easily persuaded by emotion

✗ 4.

logos, because it can also be used to build ethos

**Comprehension:**

Read the following passage and answer the question given below.

Persuasion is the art of convincing someone to agree with your point of view. According to the ancient Greek philosopher Aristotle, there are three basic tools of persuasion: ethos, pathos, and logos. Ethos is a speaker's way of convincing the audience that she is a credible source. An audience will consider a speaker credible if she seems trustworthy, reliable, and sincere. This can be done in many ways. For example, a speaker can develop ethos by explaining how much experience or education she has in the field. After all, you would be more likely to listen to advice about how to take care of your teeth from a dentist than a firefighter. A speaker can also create ethos by convincing the audience that she is a good person who has their best interests at heart. If an audience cannot trust you, you will not be able to persuade them. Pathos is a speaker's way of connecting with an audience's emotions. For example, a speaker who is trying to convince an audience to vote for him might say that he alone can save the country from a terrible war. These words are intended to fill the audience with fear, thus making them want to vote for him. Similarly, a charity organization that helps animals might show an audience pictures of injured dogs and cats. These images are intended to fill the viewers with pity. If the audience feels bad for the animals, they will be more likely to donate money. Logos is the use of facts, information, statistics, or other evidence to make your argument more convincing. An audience will be more likely to believe you if you have data to back up your claims. For example, a commercial for soap might tell you that laboratory tests have shown that their soap kills all 7,000,000 of the bacteria living on your hands right now. This piece of information might make you more likely to buy their brand of soap. Presenting this evidence is much more convincing than simply saying "our soap is the best!" Use of logos can also increase a speaker's ethos; the more facts a speaker includes in his argument, the more likely you are to think that he is educated and trustworthy. Although ethos, pathos, and logos all have their strengths, they are often most effective when they are used together. Indeed, most speakers use a combination of ethos, pathos, and logos to persuade their audiences. The next time you listen to a speech, watch a commercial, or listen to a friend try to convince you to lend him some money, be on the lookout for these ancient Greek tools of persuasion.

SubQuestion No : 17

Q.17

Passage says that the use of logos can also increase a speaker's ethos. This is because:

Ans  ✗ 1.

it would be difficult to persuade audience who are too frightened or too sad

✗ 2.

an audience are easily convinced by emotions but not facts

✗ 3.

a speaker can use misleading or false information

✔ 4.

an audience trusts a speaker who uses evidence to support his argument

**Comprehension:**

Read the following passage and answer the question given below.

Persuasion is the art of convincing someone to agree with your point of view. According to the ancient Greek philosopher Aristotle, there are three basic tools of persuasion: ethos, pathos, and logos. Ethos is a speaker's way of convincing the audience that she is a credible source. An audience will consider a speaker credible if she seems trustworthy, reliable, and sincere. This can be done in many ways. For example, a speaker can develop ethos by explaining how much experience or education she has in the field. After all, you would be more likely to listen to advice about how to take care of your teeth from a dentist than a firefighter. A speaker can also create ethos by convincing the audience that she is a good person who has their best interests at heart. If an audience cannot trust you, you will not be able to persuade them. Pathos is a speaker's way of connecting with an audience's emotions. For example, a speaker who is trying to convince an audience to vote for him might say that he alone can save the country from a terrible war. These words are intended to fill the audience with fear, thus making them want to vote for him. Similarly, a charity organization that helps animals might show an audience pictures of injured dogs and cats. These images are intended to fill the viewers with pity. If the audience feels bad for the animals, they will be more likely to donate money. Logos is the use of facts, information, statistics, or other evidence to make your argument more convincing. An audience will be more likely to believe you if you have data to back up your claims. For example, a commercial for soap might tell you that laboratory tests have shown that their soap kills all 7,000,000 of the bacteria living on your hands right now. This piece of information might make you more likely to buy their brand of soap. Presenting this evidence is much more convincing than simply saying "our soap is the best!" Use of logos can also increase a speaker's ethos; the more facts a speaker includes in his argument, the more likely you are to think that he is educated and trustworthy. Although ethos, pathos, and logos all have their strengths, they are often most effective when they are used together. Indeed, most speakers use a combination of ethos, pathos, and logos to persuade their audiences. The next time you listen to a speech, watch a commercial, or listen to a friend try to convince you to lend him some money, be on the lookout for these ancient Greek tools of persuasion.

**SubQuestion No : 18**

Q.1
8   Which of the following is NOT a synonym of the word "credible", used in the passage?

Question ID : 473941404

Ans

✔ 1. additional

✘ 2. dependable

✘ 3. trustworthy

✘ 4. reliable

**Comprehension:**

**Comprehension:**

Read the following passage and answer the question given below.

Persuasion is the art of convincing someone to agree with your point of view. According to the ancient Greek philosopher Aristotle, there are three basic tools of persuasion: ethos, pathos, and logos. Ethos is a speaker's way of convincing the audience that she is a credible source. An audience will consider a speaker credible if she seems trustworthy, reliable, and sincere. This can be done in many ways. For example, a speaker can develop ethos by explaining how much experience or education she has in the field. After all, you would be more likely to listen to advice about how to take care of your teeth from a dentist than a firefighter. A speaker can also create ethos by convincing the audience that she is a good person who has their best interests at heart. If an audience cannot trust you, you will not be able to persuade them. Pathos is a speaker's way of connecting with an audience's emotions. For example, a speaker who is trying to convince an audience to vote for him might say that he alone can save the country from a terrible war. These words are intended to fill the audience with fear, thus making them want to vote for him. Similarly, a charity organization that helps animals might show an audience pictures of injured dogs and cats. These images are intended to fill the viewers with pity. If the audience feels bad for the animals, they will be more likely to donate money. Logos is the use of facts, information, statistics, or other evidence to make your argument more convincing. An audience will be more likely to believe you if you have data to back up your claims. For example, a commercial for soap might tell you that laboratory tests have shown that their soap kills all 7,000,000 of the bacteria living on your hands right now. This piece of information might make you more likely to buy their brand of soap. Presenting this evidence is much more convincing than simply saying "our soap is the best!" Use of logos can also increase a speaker's ethos; the more facts a speaker includes in his argument, the more likely you are to think that he is educated and trustworthy. Although ethos, pathos, and logos all have their strengths, they are often most effective when they are used together. Indeed, most speakers use a combination of ethos, pathos, and logos to persuade their audiences. The next time you listen to a speech, watch a commercial, or listen to a friend try to convince you to lend him some money, be on the lookout for these ancient Greek tools of persuasion.

**SubQuestion No : 19**

Q.1
9

Whenever her child refuses to eat food, Radhika tells, "Raji, you should eat now or else I will take you to the doctor and he will give you an injection." What form of persuasion is Radhika using here?

Ans ✗ 1. ethos

✗ 2. logos

✗ 3. a combination of ethos, pathos, and logos

✔ 4. pathos

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**Q.20** In which of the following plays, Shakespeare makes fun of the Puritans?

Ans ✗ 1. Henry IV, Part I

✗ 2. Hamlet

✗ 3. The Tempest

✔ 4. Twelfth Night

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Section : **Language Proficiency Test -Odia**

**Q.1** ନିମ୍ନ ଲିଖିତ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଶବ୍ଦ ବାଛି ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର।
ଚାଷ ଭାରତର _____ ମୂଳ।

Ans ✗ 1. ଆଦାୟ

✔ 2. ବଣିଜ

✗ 3. ସମ୍ପତ୍ତି

✗ 4. ବେପାର

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**Q.2** 'ଛ' ମାଣ ଆଠଗୁଣ୍ଠ ଏହାର ଲେଖକ କିଏ?

Ans ✗ 1. ଶଙ୍କାଧର

✗ 2. ସୁରେନ୍ଦ୍ର ମହାନ୍ତି

✗ 3. ଗୋଦାବରୀଶ

✔ 4. ଫକିରମୋହନ

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**Q.3** କେଉଁଠି ଠିକ୍?

Ans ✗ 1. ଧରିତ୍ରି

✗ 2. ଧରାତ୍ରି

✔ 3. ଧରିତ୍ରୀ

✗ 4. ଧରାତ୍ରୀ

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**Q.4** ସନାତନ–ପ୍ରକୃତି ପ୍ରତ୍ୟୟ ଲେଖ?

Ans ✗ 1. ସ + ନାତନ

✔ 2. ସଦା + ତନ

✗ 3. ସନାତ + ସନ

✗ 4. ସନା + ତେ

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**Q.5**

ସେ ଭାତ ଖାଇବାକୁ ଯାଉଛି । ଏଠାରେ ଖାଇବାକୁ କି ପ୍ରକାର ପଦ?

**Ans**
✗ 1. ସମାପିକା କ୍ରିୟା
✓ 2. କ୍ରିୟା ବାଚକ ବିଶେଷ୍ୟ
✗ 3. ଶଢ଼କ କ୍ରିୟା
✗ 4. ଅସମାପିକା କ୍ରିୟା

Status : **Answered**
Chosen Option : **4**

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**Q.6** ଜ୍ଞାନପୀଠ ପୁରସ୍କାର କିଏ ପାଇଛନ୍ତି?

**Ans**
✗ 1. ରାଧାନାଥ ରାୟ
✗ 2. କାହ୍ନୁଚରଣ ମହାନ୍ତି
✗ 3. ମଧୁସୂଦନ ରାଓ
✓ 4. ଗୋପୀନାଥ ମହାନ୍ତି

Question ID : **473941435**
Status : **Answered**
Chosen Option : **4**

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**Q.7** ଓଡ଼ିଆ ସାହିତ୍ୟର ଆଧୁନିକ ଯୁଗର ପ୍ରବର୍ତ୍ତକ କାହାକୁ କୁହାଯାଏ?

**Ans**
✓ 1. ରାଧାନାଥ
✗ 2. ମଧୁସୂଦନ
✗ 3. ଗଙ୍ଗାଧର
✗ 4. ସୁରେନ୍ଦ୍ର ମହାନ୍ତି

Question ID : **473941427**
Status : **Not Attempted**
Chosen Option : **--**

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**Q.8** କେଉଁ କାବ୍ୟଟି ଗଙ୍ଗାଧରଙ୍କ ଶ୍ରେଷ୍ଠ କାବ୍ୟ?

**Ans**
✗ 1. ଉତ୍କଳ ଲକ୍ଷ୍ମୀ
✗ 2. କୀଚକବଧ
✗ 3. ପ୍ରଣୟବଲ୍ଲରୀ
✓ 4. ତପସ୍ୱିନୀ

Question ID : **473941442**
Status : **Answered**
Chosen Option : **4**

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**Q.9** ବନ୍ଧୁ + ଅ = ବାନ୍ଧବ 'ଅ' ପ୍ରତ୍ୟୟଟି କେଉଁ ଅର୍ଥରେ ହୋଇଛି?

**Ans**
✗ 1. ନିବାସ ଅର୍ଥରେ
✗ 2. ଅପତ୍ୟ ଅର୍ଥରେ
✓ 3. ସ୍ୱାର୍ଥରେ
✗ 4. ବିକାର ଅର୍ଥରେ

Question ID : **473941428**
Status : **Answered**
Chosen Option : **3**

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**Q.10** ଭୌଗଳିକ ଏହାର ପ୍ରକୃତିଟି କଣ?

**Ans**
✓ 1. ଭୁଗୋଳ
✗ 2. ଭୁଗଳ
✗ 3. ଭୌଗଳ
✗ 4. ଭୁଗୋଳ

Question ID : **473941430**
Status : **Answered**
Chosen Option : **1**

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**Q.11** କେଉଁ ଉପନ୍ୟାସଟି ଗୋପୀନାଥ ମହାନ୍ତିଙ୍କର ନୁହେଁ?

**Ans**
✗ 1. ଅମୃତର ସନ୍ତାନ
✗ 2. ମାଟି ମଟାଳ
✗ 3. ପରଜା
✓ 4. ଅଦେଖା ହାତ

Question ID : **473941431**
Status : **Answered**
Chosen Option : **4**

**Q.12** ଖେଳ + ଆଳି = ଖେଳାଳି 'ଆଳି' ପ୍ରତ୍ୟୟ କେଉଁ ଅର୍ଥରେ ହେଇଛି ?

Ans
- ❌ 1. ସମୃଦ୍ଧ ଅର୍ଥରେ
- ❌ 2. କ୍ଷୁଦ୍ର ଅର୍ଥରେ
- ✅ 3. ଅଭ୍ୟାସ ଅର୍ଥରେ
- ❌ 4. ବୃଦ୍ଧି ଅର୍ଥରେ

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**Q.13** ରାମାୟଣ ଗଦ୍ୟଟି ଶିକ୍ଷାଦାନ ଦେବାର ଉଦ୍ଦେଶ୍ୟ କଣ ?

Ans
- ✅ 1. ମଧୁସୂଦନଙ୍କ ଗଦ୍ୟଶୈଳୀ ସହିତ ପିଲାଙ୍କୁ ପରିଚିତ କରାଇବା
- ❌ 2. ରାମଚନ୍ଦ୍ରଙ୍କ ଶାସନର ଦୋଷ ଦେଖିବା
- ❌ 3. ରାମାୟଣ ବିଷୟରେ ପିଲାଙ୍କୁ ଜଣାଇବା
- ❌ 4. ରାମ ରାଜ୍ୟ ସମ୍ପର୍କରେ ଧାରଣା ଦେବା

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**Q.14** ପ୍ରଣୟ ବଲ୍ଲରୀର ବିଷୟବସ୍ତୁ କେଉଁ ସଂସ୍କୃତ କାବ୍ୟରୁ ଆଧାରିତ ?

Ans
- ❌ 1. ରଘୁବଂଶ
- ✅ 2. ଅଭିଜ୍ଞାନ ଶକୁନ୍ତଳମ୍
- ❌ 3. କୁମାର ସମ୍ଭବମ୍
- ❌ 4. ମେଘଦୂତ

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**Q.15** କେଉଁ କାବ୍ୟଟି ରାଧାନାଥଙ୍କ ରଚନା ନୁହେଁ ?

Ans
- ❌ 1. ଚିଲିକା
- ✅ 2. ପ୍ରଣୟବଲ୍ଲରୀ
- ❌ 3. କେଦାର ଗୌରୀ
- ❌ 4. ଚନ୍ଦ୍ରଭାଗା

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**Q.16** ପ୍ରତ୍ୟୟ ଯୋଗରେ ଦୁଇଟି ବର୍ଣ୍ଣ ମଧ୍ୟରେ ଅନ୍ୟଏକ ବର୍ଣ୍ଣ ଆସିଲେ କଣ କହନ୍ତି ?

Ans
- ✅ 1. ଆଗମ
- ❌ 2. ଗୁଣ
- ❌ 3. ଆଦେଶ
- ❌ 4. ଲୋପ

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**Q.17** ମହୀମଣ୍ଡଳ ଗୀତା ଗ୍ରନ୍ଥର ରଚୟିତା କିଏ ?

Ans
- ✅ 1. ଅରକ୍ଷିତ ଦାସ
- ❌ 2. ଅଚ୍ୟୁତାନନ୍ଦ ଦାସ
- ❌ 3. ଜଗନ୍ନାଥ ଦାସ
- ❌ 4. ଯଶୋବନ୍ତ ଦାସ

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**Q.18** ସଞ୍ଜ ଏଥିରେ ଥିବା 'ଞ୍ଜ' ଅକ୍ଷରରେ କେଉଁ କେଉଁ ବର୍ଣ୍ଣ ମିଶିଛି ?

Ans
- ❌ 1. ନ + ଜ
- ❌ 2. ଙ୍ + ନ
- ❌ 3. ଞ୍ + ଜ

✔ 4. ଲ୍ + କ

**Q.19** ସୁଯୋଗକୁ ଅପେକ୍ଷା କରିବା ଏହି ଅର୍ଥଟି କେଉଁ ରୂଢ଼ିର ?

Ans
✘ 1. ଉବରଖେଳିବା
✘ 2. ଓଦ ଧରାଇବା
✘ 3. ଓର ଦେଖିବା
✔ 4. ଓର ଉଣ୍ଡିବା

**Q.20** କାହାକୁ ପୁଷମାସ କାହାର ସର୍ବନାଶ ? ଏହା କେଉଁ ଅର୍ଥରେ ପ୍ରକାଶ କରେ ?

Ans
✔ 1. ଜଣକର ଲାଭ ବେଳେ ଅନ୍ୟ ଜଣକର କ୍ଷତି
✘ 2. ଏକା ମାଘରେ ଶୀତ ଯାଏନି
✘ 3. ପୁଷ ମାସରେ ଶୀତ ବଢ଼େ
✘ 4. ଶୀତ ଯୋଗୁଁ ସର୍ବନାଶ ହୁଏ

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Section : **Current Affairs**

**Q.1** Which one of the following is no more a fundamental right in the Indian Constitution?

Ans
✘ 1. Right against exploitation
✘ 2. Right to freedom of religion
✔ 3. Right to private property
✘ 4. Right to equality

**Q.2** What is the total number of articles as originally adopted in the Indian Constitution?

Ans
✘ 1. 595
✔ 2. 395
✘ 3. 295
✘ 4. 495

**Q.3** Which place in India produces world's highest average rainfall?

Ans
✘ 1. Imphal
✘ 2. Kohima
✔ 3. Mawsynram
✘ 4. Shillong

**Q.4** With which bank was ING Vysya bank merged into, in the year 2014?

Ans
✘ 1. Yes Bank
✔ 2. Kotak Mahindra Bank
✘ 3. Axis Bank
✘ 4. HDFC Bank

**Q.5** What is the administrative capital of Dadra and Nagar Haveli?

Ans
✘ 1. Port Blair
✘ 2. Porvorim
✔ 3. Silvasa

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✗ 4. Mumbai

**Q.6** Where is Netaji Subhas Chandra Bose International Airport located in India?

Ans
✗ 1. Goa
✓ 2. Kolkata
✗ 3. Mumbai
✗ 4. Patna

Question ID : **473941456**
Status : **Answered**
Chosen Option : **4**

**Q.7** By which Amendment Act of Indian constitution was the eleventh fundamental duty added?

Ans
✓ 1. 86$^{th}$ Amendment act
✗ 2. 66$^{th}$ Amendment act
✗ 3. 55$^{th}$ Amendment act
✗ 4. 56$^{th}$ Amendment act

Question ID : **473941449**
Status : **Answered**
Chosen Option : **1**

**Q.8** In which year, the first amendment act of Indian Constitution passed?

Ans
✗ 1. 1949
✓ 2. 1951
✗ 3. 1956
✗ 4. 1959

Question ID : **473941451**
Status : **Answered**
Chosen Option : **2**

**Q.9** Who played the role of Mohammad Azharuddin in the movie titled "Azhar"?

Ans
✓ 1. Emraan Hashmi
✗ 2. Sushant Rajput
✗ 3. Siddharth Roy Kapoor
✗ 4. Nawazuddin Siddiqui

Question ID : **473941469**
Status : **Answered**
Chosen Option : **1**

**Q.10** How many medals did India win at the Rio Olympics 2016?

Ans
✗ 1. 3
✗ 2. 1
✗ 3. 4
✓ 4. 2

Question ID : **473941464**
Status : **Answered**
Chosen Option : **4**

**Q.11** During which Five Year Plan, Green Revolution was started in India?

Ans
✗ 1. 3$^{rd}$ Five Year Plan
✗ 2. 6$^{th}$ Five Year Plan
✗ 3. 5$^{th}$ Five Year Plan
✓ 4. 4$^{th}$ Five Year Plan

Question ID : **473941461**
Status : **Answered**
Chosen Option : **3**

**Q.12** Who is the present Union Finance Minister of India?

Ans
✗ 1. Uma Bharti
✓ 2. Arun Jaitley
✗ 3. Sushma Swaraj
✗ 4. Nitin Gadkari

Question ID : **473941470**
Status : **Answered**
Chosen Option : **2**

**Q.13** The White Revolution in India refers to:

Ans

Question ID : **473941460**
Status : **Answered**

✔ 1. Enhanced production of milk     Chosen Option : **1**

✘ 2. Enhanced production of oil seeds

✘ 3. Enhanced production of fishes

✘ 4. Enhanced production of fertilizers

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**Q.14** Who founded the famous city of Fatehpur Sikri?

Ans

✘ 1. Babur

✘ 2. Alauddin Khilji

✔ 3. Akbar

✘ 4. Bairam Khan

Question ID : **473941445**

Status : **Answered**

Chosen Option : **1**

---

**Q.15** Which country's president was the chief guest for 2016 republic day celebrations of India?

Ans

✘ 1. Srilanka

✔ 2. France

✘ 3. Kenya

✘ 4. South Africa

Question ID : **473941471**

Status : **Answered**

Chosen Option : **2**

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**Q.16** Which article of Indian Constitution makes Right to Education for children up to age of 14, a Fundamental Right?

Ans

✘ 1. Article 51 A

✘ 2. Article 31A

✘ 3. Article 41 A

✔ 4. Article 21A

Question ID : **473941453**

Status : **Answered**

Chosen Option : **4**

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**Q.17** Whom did Babur defeat in the First Battle of Panipat?

Ans

✘ 1. Sher Shah

✔ 2. Ibrahim Lodhi

✘ 3. Hasan Khan

✘ 4. Tipu Sultan

Question ID : **473941446**

Status : **Answered**

Chosen Option : **2**

---

**Q.18** Where is India's largest port located?

Ans

✘ 1. Visakhapatnam

✘ 2. Kolkata

✔ 3. Navi Mumbai

✘ 4. Kandla

Question ID : **473941455**

Status : **Answered**

Chosen Option : **1**

---

**Q.19** Which former Prime Minister of India served as the Governor of Reserve Bank of India?

Ans

✘ 1. I.K. Gujral

✘ 2. V.P. Singh

✘ 3. Deve Gowda

✔ 4. Manmohan Singh

Question ID : **473941459**

Status : **Answered**

Chosen Option : **4**

---

**Q.20** Who was the Governor General of India during the First War of Independence (1857)?

Ans

✘ 1. Lord Curzon

✘ 2. Lord Mountbatten

✔ 3. Lord Canning

Question ID : **473941444**

Status : **Answered**

Chosen Option : **3**

✗ 4. Lord Dalhousie

**Q.21** Which ruler of Gupta dynasty is known as 'Indian Napoleon'?

Ans
✗ 1. Ashoka

✗ 2. Sri Gupta

✗ 3. Harshavardhana

✓ 4. Samudragupta

Question ID : **473941447**

Status : **Answered**

Chosen Option : **4**

**Q.22** Who is the Chief selector in the Board of Control for Cricket in India (BCCI) as in January 2017?

Ans
✗ 1. Anil Kumble

✓ 2. M.S.K. Prasad

✗ 3. Sunil Gavaskar

✗ 4. Ravi Shastri

Question ID : **473941465**

Status : **Answered**

Chosen Option : **1**

**Q.23** Which country hosted the Men's Hockey World Cup 2014?

Ans
✗ 1. South Korea

✓ 2. Netherlands

✗ 3. South Africa

✗ 4. England

Question ID : **473941472**

Status : **Answered**

Chosen Option : **1**

**Q.24** Where is Hirakud Multipurpose project located in India?

Ans
✗ 1. Maharashtra

✗ 2. Madhya Pradesh

✗ 3. Karnataka

✓ 4. Odisha

Question ID : **473941457**

Status : **Answered**

Chosen Option : **4**

**Q.25** Who was the first Union Finance minister of Independent India?

Ans
✗ 1. Krishnamachari

✗ 2. John Mathai

✓ 3. R. K. Shanmukham Chetty

✗ 4. C. D. Deshmukh

Question ID : **473941462**

Status : **Answered**

Chosen Option : **1**

**Q.26** Which Governor General of India abolished titles and pensions?

Ans
✗ 1. Lord Curzon

✓ 2. Lord Dalhousie

✗ 3. Lord Lytton

✗ 4. Lord Canning

Question ID : **473941448**

Status : **Answered**

Chosen Option : **3**

**Q.27** Who is the present Chief Minister of Delhi?

Ans
✓ 1. Arvind Kejriwal

✗ 2. Sheila Dixit

✗ 3. Madan Lal Khurana

✗ 4. Sushma Swaraj

Question ID : **473941468**

Status : **Answered**

Chosen Option : **1**

**Q.28** Who won the finals of Women's singles badminton at Rio Olympics 2016?

Ans

Question ID : **473941467**

Status : **Answered**

✗ 1. P.V. Sindhu

✗ 2. Wang Yihan

✗ 3. Nozomi Okuhara

✔ 4. Carolina Marin

**Q.29** NITI Aayog replaced which one of the following in 2015?

**Ans**

✗ 1. NABARD

✗ 2. Election Commission

✗ 3. EXIM Bank

✔ 4. Planning Commission

Question ID : **473941463**
Status : **Answered**
Chosen Option : **4**

**Q.30** What is the new capital of the state of Andhra Pradesh?

**Ans**

✗ 1. Tirupati

✔ 2. Amaravati

✗ 3. Visakhapatnam

✗ 4. Ongole

Question ID : **473941473**
Status : **Answered**
Chosen Option : **2**

Section : **Reasoning**

**Q.1** In a certain code HYDERABAD is written as IZCDSBAZE, how can COMPUTERS be written in that code language?

**Ans**

✗ 1. DPNQVUDSR

✔ 2. DPLOVUDQT

✗ 3. DPNQSRDVU

✗ 4. DPLODQTVU

Question ID : **473941482**
Status : **Answered**
Chosen Option : **2**

**Q.2** Read the following information carefully and answer the question given below.

   i)     P Q R S T U V W are sitting in a row facing SOUTH.
   ii)    P is fourth to the right of T.
   iii)   W is fourth to the left of S.
   iv)   R and U, who are not at the ends, are neighbors of Q and T Respectively.
   v)   W is next to the left of P and P is the neighbor of Q.

Who are sitting at the ends?

**Ans**

✔ 1. T and S

✗ 2. U and R

✗ 3. V and Q

✗ 4. U and S

Question ID : **473941502**
Status : **Answered**
Chosen Option : **1**

**Q.3** At cinema hall, on a ticket counter there are 15 persons in a queue. If every second person in the queue is a male and also at the starting and at the end there is a male, then the total number of females in the queue is:
NOTE: No two mens are together

**Ans**

✗ 1. 6

✗ 2. 9

✗ 3. 8

✔ 4. 7

Question ID : **473941493**
Status : **Answered**
Chosen Option : **3**

**Q.4**

Question ID : **473941487**
Status : **Answered**
Chosen Option : **2**

In these questions a group of digits is given followed by four combinations of letters and symbols numbered 1), 2), 3), 4). Digits are to be coded as per the scheme and conditions given below. You have to find out which of the four combinations correctly represents the group of digits. Serial number of that combination is your answer.

| Digit | 5 | 1 | 2 | 8 | 6 | 3 | 9 | 0 | 4 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|
| Letter/ symbol | H | $ | T | A | U | % | # | F | R | @ |

Conditions:
i) If first digit is odd and the last digit is even their codes are to be interchanged.
ii) If the first as well as the last digit is even both are to be coded as #.
iii) If the first digit is even and the last digit is odd both are to be coded as the code for the last digit.
iv) If first digit as well as the last digit is odd, nothing to be changed.

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**Ans**
✗ 1. URAF#U
✔ 2. URAF#%
✗ 3. %RAF#U
✗ 4. %@RAU%

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**Q.5** Read the following information carefully and answer the question given below.

i) P Q R S T U V W are sitting in a row facing SOUTH.
ii) P is fourth to the right of T.
iii) W is fourth to the left of S.
iv) R and U, who are not at the ends, are neighbors of Q and T Respectively.
v) W is next to the left of P and P is the neighbor of Q.

Who is the neighbor /s of S?

Question ID : 473941501
Status : **Answered**
Chosen Option : **3**

**Ans**
✗ 1. V alone is the neighbor of S
✗ 2. Q and R are the neighbors of S
✔ 3. R alone is the neighbor of S
✗ 4. W alone is the neighbor of S

---

**Q.6** Following question is based on the letters/numbers/symbols arrangement.

A 8 B 6 # 7 H U % 3 $ F V R 2 1 @ * 4 1 Q E ! 9 L 5

What should come in place of ? in the following series based on the above arrangement?

B#H %$V 2@4 ?

Question ID : 473941477
Status : **Answered**
Chosen Option : **4**

**Ans**
✗ 1. 1E!
✗ 2. QE!
✗ 3. 9L5
✔ 4. Q!L

---

**Q.7** In these questions a group of digits is given followed by four combinations of letters and symbols numbered 1), 2), 3), 4). Digits are to be coded as per the scheme and conditions given below. You have to find out which of the four combinations correctly represents the group of digits. Serial number of that combination is your answer.

| Digit | 5 | 1 | 2 | 8 | 6 | 3 | 9 | 0 | 4 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|
| Letter/ symbol | H | $ | T | A | U | % | # | F | R | @ |

Conditions:
i) If first digit is odd and the last digit is even their codes are to be interchanged.
ii) If the first as well as the last digit is even both are to be coded as #.
iii) If the first digit is even and the last digit is odd both are to be coded as the code for the last digit.
iv) If first digit as well as the last digit is odd, nothing to be changed.

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Question ID : 473941485
Status : **Answered**
Chosen Option : **2**

**Ans**
✗ 1. U#@ARH
✔ 2. H#@ARH
✗ 3. H#@ARU
✗ 4. U#@ARU

---

**Q.8** Find the odd one from the given options which is different from others.

Question ID : 473941481
Status : **Answered**
Chosen Option : **4**

**Ans**
✗ 1. ABEFG
✗ 2. MNORU
✗ 3. IJOPR

✔ 4. DEFGH

**Q.9** Read the following information carefully and answer the question given below.

i) P Q R S T U V W are sitting in a row facing SOUTH.
ii) P is fourth to the right of T.
iii) W is fourth to the left of S.
iv) R and U, who are not at the ends, are neighbors of Q and T respectively.
v) W is next to the left of P and P is the neighbor of Q.

What is the position of U?

Ans ✔ 1. Next to the right of T

✘ 2. Next to the right of V

✘ 3. Second to the right of P

✘ 4. Third to the right of W

**Q.10** Pointing to a man in the photograph, Rashmi said , "The only son of his grandfather is my husband". How is Rashmi related to that man?

Ans ✔ 1. Mother

✘ 2. Grand daughter

✘ 3. Aunt

✘ 4. Sister

**Q.11** If '×' means '−' , '−' means '+', '+' means '÷', '÷' means '×', then find the value of:
$(15 \times 9 + 6 - 7) + 4 \div 14$

Ans ✘ 1. 60

✔ 2. 28

✘ 3. 58

✘ 4. 30

**Q.12** If in a certain code language JUG is written as 38, then how will GST is written in that language?

Ans ✘ 1. 40

✘ 2. 25

✘ 3. 64

✔ 4. 46

**Q.13** What comes in place of question mark (?) in the following number series?
5, 51, 511, 5111, ?

Ans ✔ 1. 51111

✘ 2. 50000

✘ 3. 53333

✘ 4. 52222

**Q.14** If 6$^{th}$ may, 2014 is Tuesday, what day of the week was on 2$^{nd}$ June, 2014?

Ans ✔ 1. Monday

✘ 2. Wednesday

✘ 3. Tuesday

✘ 4. Sunday

**Q.15** In the following question, arrange the given words in meaningful sequence and choose the correct sequence from the given alternatives.
1. Telangana  2. Universe  3. India  4. World  5. Charminar

Ans ✘ 1. 2, 4, 3, 5, 1

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✗ 2. 2,4,5,1,3

✗ 3. 5, 3, 1, 2, 4

✔ 4. 5, 1, 3, 4, 2

---

**Q.16** Find out the relationship between the first two words and choose the missing word from the given alternatives which bears the same relationship as the first two bear.

Amitabh Bachchan : Films :: Rajdeep Sardesai : ?

**Ans**
✗ 1. Dance

✔ 2. Media

✗ 3. Business

✗ 4. Cricket

---

**Q.17** Following question is based on the letters/numbers/symbols arrangement.

A 8 B 6 # 7 H U % 3 $ F V R 2 1 @ * 4 1 Q E ! 9 L 5

Which of the following is seventh to the right of fifteenth from the right end?

**Ans**
✗ 1. 1

✗ 2. *

✗ 3. Q

✔ 4. 4

---

**Q.18** Find out the relationship between the first two words and choose the missing word from the given alternatives which bears the same relationship as the first two bear.

Substitute : Replace :: Dearth : ?

**Ans**
✗ 1. Abundance

✗ 2. Destroy

✔ 3. Scarcity

✗ 4. Rumour

---

**Q.19** Find the letter in place of question mark (?) in the series given below.

A, E, I, M, Q, ?

**Ans**
✔ 1. U

✗ 2. T

✗ 3. V

✗ 4. W

---

**Q.20** Find the missing number from the given alternatives.

| 1 | 4 | 7 |
|---|---|---|
| 2 | 5 | 8 |
| 7 | 6 | 1 |
| 2 | 183 | ? |

**Ans**
✗ 1. 12

✗ 2. 366

✔ 3. 854

✗ 4. 754

---

**Q.21**

In these questions a group of digits is given followed by four combinations of letters and symbols numbered 1), 2), 3), 4). Digits are to be coded as per the scheme and conditions given below. You have to find out which of the four combinations correctly represents the group of digits. Serial number of that combination is your answer.

| Digit | 5 | 1 | 2 | 8 | 6 | 3 | 9 | 0 | 4 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|
| Letter/ symbol | H | $ | T | A | U | % | # | F | R | @ |

Conditions:
i)   If first digit is odd and the last digit is even their codes are to be interchanged.
ii)  If the first as well as the last digit is even both are to be coded as #.
iii) If the first digit is even and the last digit is odd both are to be coded as the code for the last digit.
iv)  If first digit as well as the last digit is odd, nothing to be changed.

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Ans  ✗ 1. R@$H%U

✗ 2. U@$H%U

✗ 3. R@$H%R

✔ 4. #@$H%#

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**Q.22** Read the following information carefully and answer the question given below.

i)   P Q R S T U V W are sitting in a row facing SOUTH.
ii)  P is fourth to the right of T.
iii) W is fourth to the left of S.
iv)  R and U, who are not at the ends, are neighbors of Q and T Respectively.
v)   W is next to the left of P and P is the neighbor of Q.

What is the position of P?

Ans  ✗ 1.  Third to the right of W

✗ 2.  Fourth to the left of S

✗ 3.  Second to the right of T

✔ 4.  Third to the right of U

---

**Q.23** In these questions a group of digits is given followed by four combinations of letters and symbols numbered 1), 2), 3), 4). Digits are to be coded as per the scheme and conditions given below. You have to find out which of the four combinations correctly represents the group of digits. Serial number of that combination is your answer.

| Digit | 5 | 1 | 2 | 8 | 6 | 3 | 9 | 0 | 4 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|
| Letter/ symbol | H | $ | T | A | U | % | # | F | R | @ |

Conditions:
i)   If first digit is odd and the last digit is even their codes are to be interchanged.
ii)  If the first as well as the last digit is even both are to be coded as #.
iii) If the first digit is even and the last digit is odd both are to be coded as the code for the last digit.
iv)  If first digit as well as the last digit is odd, nothing to be changed.

590247

Ans  ✗ 1.  H#FTRH

✗ 2.  @#FTR@

✔ 3.  H#FTR@

✗ 4.  @#FTRH

---

**Q.24** Kumar started walking towards East. He turned left and again taken left. Finally, he once again turned left. Find the direction in which he is walking now?

Ans  ✗ 1.  North

✗ 2.  West

✗ 3.  East

✔ 4.  South

---

**Q.25** Read the following information carefully and answer the question given below.

i)   P Q R S T U V W are sitting in a row facing SOUTH.
ii)  P is fourth to the right of T.
iii) W is fourth to the left of S.
iv)  R and U, who are not at the ends, are neighbors of Q and T Respectively.
v)   W is next to the left of P and P is the neighbor of Q.

Which of the following statements is not true?

Ans  ✔ 1.  S is next to the left of R

  ✗ 2. Q is next to the Right of P

  ✗ 3. T is at left End

  ✗ 4. V is the neighbor of U and W

---

**Q.26** Find the odd one from the given options which is different from others.

Ans

  ✗ 1. 290

  ✗ 2. 470

  ✗ 3. 380

  ✔ 4. 450

Question ID : **473941480**

Status : **Answered**

Chosen Option : **4**

---

**Q.27** Following question is based on the letters/numbers/symbols arrangement.

A 8 B 6 # 7 H U % 3 $ F V R 2 1 @ * 4 1 Q E ! 9 L 5

How many such symbols are there in the above arrangement, each of which is immediately preceded by a vowel and also immediately followed by a number?

Ans

  ✔ 1. Two

  ✗ 2. None

  ✗ 3. One

  ✗ 4. Three

Question ID : **473941476**

Status : **Answered**

Chosen Option : **1**

---

**Q.28** In these questions a group of digits is given followed by four combinations of letters and symbols numbered 1), 2), 3), 4). Digits are to be coded as per the scheme and conditions given below. You have to find out which of the four combinations correctly represents the group of digits. Serial number of that combination is your answer.

| Digit | 5 | 1 | 2 | 8 | 6 | 3 | 9 | 0 | 4 | 7 |
|---|---|---|---|---|---|---|---|---|---|---|
| Letter/ symbol | H | $ | T | A | U | % | # | F | R | @ |

Conditions:
i) If first digit is odd and the last digit is even their codes are to be interchanged.
ii) If the first as well as the last digit is even both are to be coded as #.
iii) If the first digit is even and the last digit is odd both are to be coded as the code for the last digit.
iv) If first digit as well as the last digit is odd, nothing to be changed.

374862

Ans

  ✔ 1. T@RAU%

  ✗ 2. %@RAU%

  ✗ 3. *@RAU*

  ✗ 4. %@RAUT

Question ID : **473941488**

Status : **Answered**

Chosen Option : **1**

---

**Q.29** What is the angle traced by hour hand in 25 minutes?

Ans

  ✗ 1. 25°

  ✗ 2. 10.5°

  ✗ 3. 12°

  ✔ 4. 12.5°

Question ID : **473941496**

Status : **Answered**

Chosen Option : **2**

---

**Q.30** Following question is based on the letters/numbers/symbols arrangement.

A 8 B 6 # 7 H U % 3 $ F V R 2 1 @ * 4 1 Q E ! 9 L 5

If all the symbols are dropped from the above arrangement which of the following will be eighth from the left end?

Ans

  ✔ 1. 3

  ✗ 2. V

  ✗ 3. U

  ✗ 4. F

Question ID : **473941475**

Status : **Answered**

Chosen Option : **1**

---

Section : **Subject Content & Methodology**

**Q.1** If $\begin{vmatrix} x & x \\ 1 & x \end{vmatrix} = \begin{vmatrix} 3 & 4 \\ 1 & 2 \end{vmatrix}$ the value of x is.

Ans

  ✗ 1. 1, −2

Question ID : **473941510**

Status : **Answered**

Chosen Option : **2**

✅ 2. −1, 2
❌ 3. 1, 2
❌ 4. −1, −2

**Q.2** Two cards are drawn from a pack of cards one after the other. Find the probability that the first card is king and the second card is queen, if the first card is not replaced.

**Ans**
✅ 1. 4/663
❌ 2. 1/13
❌ 3. 1/169
❌ 4. 4/51

Question ID : **473941517**
Status : **Answered**
Chosen Option : **2**

**Q.3** Find the values of $\lambda$ so that the equations $x^2 - \lambda x - 21 = 0$ and $x^2 - 3\lambda x + 35 = 0$ may have one common root.

**Ans**
❌ 1. 4, 3
❌ 2. 4, −2
❌ 3. 3, −2
✅ 4. 4, −4

Question ID : **473941545**
Status : **Answered**
Chosen Option : **1**

**Q.4** One of the following is NOT a strategy for involving all the students in the learning process.

**Ans**
❌ 1. Ask them to listen to the teacher
❌ 2. Ask them to talk to each other
✅ 3. Ask them to read the text
❌ 4.
Ask them to bring the learning material for experiment

Question ID : **473941601**
Status : **Answered**
Chosen Option : **1**

**Q.5** Sum of the natural numbers up to 'n', $1 + 2 + 3 + \ldots\ldots + n =$ _____.

**Ans**
❌ 1. (n+1)/2
❌ 2. n(n−1)/2
✅ 3. n(n+1)/2
❌ 4. (n−1)/2

Question ID : **473941506**
Status : **Answered**
Chosen Option : **3**

**Q.6** $\dfrac{a^{3n}}{a^{n/2}} = ?$

**Ans**
✅ 1. $a^{5n/2}$
❌ 2. $n^{-5a/2}$
❌ 3. $n^{5a/2}$
❌ 4. $a^{-5n/2}$

Question ID : **473941571**
Status : **Answered**
Chosen Option : **1**

**Q.7** One of the important tools for ongoing assessment is:

**Ans**
❌ 1. Making anecdotes
❌ 2. Assessing portfolio
✅ 3. Observing performance
❌ 4. Classroom questioning

Question ID : **473941598**
Status : **Answered**
Chosen Option : **4**

**Q.8** If $a_n = c_n a_{n-1}$ and $a_2 = 1$, where c is constant. The value of $a_0$ is:

**Ans**

Question ID : **473941575**
Status : **Not Attempted**

❌ 1. $\dfrac{c_1}{c_2}$

✅ 2. $\dfrac{1}{c_1 c_2}$

❌ 3. $\dfrac{c_2}{c_1}$

❌ 4. $0$

**Q.9** The fear and sense of failure among many students of mathematics is due to:

**Ans**

❌ 1. The nature of subject

❌ 2. The nature of teacher

✅ 3. The nature of classroom

❌ 4. The nature of students

Question ID : **473941596**

Status : **Answered**

Chosen Option : **2**

**Q.10** If A and B are mutually exclusive events with $P(B) \neq 1$, then $P(A/\bar{B}) = ?$

**Ans**

❌ 1. $\dfrac{1}{P(B)}$

❌ 2. $\dfrac{P(A)}{P(B)}$

❌ 3. $\dfrac{1}{1-P(B)}$

✅ 4. $\dfrac{P(A)}{1-P(B)}$

Question ID : **473941529**

Status : **Answered**

Chosen Option : **4**

**Q.11** A sphere of radius 3 cm has a volume of:

**Ans**

❌ 1. $12\pi \text{ cm}^2$

✅ 2. $36\pi \text{ cm}^2$

❌ 3. $48\pi \text{ cm}^2$

❌ 4. $24\pi \text{ cm}^2$

Question ID : **473941567**

Status : **Answered**

Chosen Option : **2**

**Q.12** Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 30°and 45° respectively. If the lighthouse is 100 m high. What is the distance between the two ships?

**Ans**

❌ 1. 173 m

❌ 2. 100 m

✅ 3. 273 m

❌ 4. 373 m

Question ID : **473941527**

Status : **Answered**

Chosen Option : **1**

**Q.13** The zone of proximal development in constructivist theory was proposed by:

**Ans**

✅ 1. Vygotsky

❌ 2. Howard Gardner

❌ 3. Jean Piaget

❌ 4. Benjamin Blooms

Question ID : **473941587**

Status : **Answered**

Chosen Option : **1**

**Q.14** In the arithmetic progression 16, 32, 40, 52, 64 which number is written wrong?

**Ans**

✅ 1. 32

❌ 2. 64

❌ 3. 52

❌ 4. 40

Question ID : **473941546**

Status : **Answered**

Chosen Option : **4**

**Q.15** The instructional model proposed by "The Biological Science Curriculum Study (BSCS), a team led by Principal Investigator Roger Bybee", for constructivism is:

Ans
- ✗ 1. PPP approach
- ✗ 2. Multiple Intelligence approach
- ✔ 3. 5Es approach
- ✗ 4. The ICON approach

Question ID : 473941588
Status : **Answered**
Chosen Option : **4**

---

**Q.16** Area of triangle according to Heron's formula is:

Ans
- ✗ 1. $\sqrt{s(s+a)(s+b)(s+c)}$
- ✗ 2. $\sqrt{(s+a)(s+b)(s+c)}$
- ✔ 3. $\sqrt{s(s-a)(s-b)(s-c)}$
- ✗ 4. $\sqrt{(s-a)(s-b)(s-c)}$

Question ID : 473941566
Status : **Answered**
Chosen Option : **3**

---

**Q.17** Which of the following is false?

Ans
- ✗ 1. $sin^2\theta + cos^2\theta = 1$
- ✗ 2. $1 + cot^2\theta = cosec^2\theta$
- ✗ 3. $sec^2\theta - tan^2\theta = 1$
- ✔ 4. $sec^2\theta + 1 = tan^2\theta$

Question ID : 473941516
Status : **Answered**
Chosen Option : **4**

---

**Q.18** The point on the x-axis which is equidistant from (2, −5) and (−2, 9) is:

Ans
- ✗ 1. (2, 0)
- ✔ 2. (7, 0)
- ✗ 3. (9, 0)
- ✗ 4. (0, 2)

Question ID : 473941561
Status : **Answered**
Chosen Option : **4**

---

**Q.19** Most appropriate example for local and community resources while teaching the volume in the topic "Mensuration" is:

Ans
- ✗ 1. Pillows and Bed sheets
- ✔ 2. Water tanks and Cylinders
- ✗ 3. Cricket score
- ✗ 4. Computers and Phones

Question ID : 473941600
Status : **Answered**
Chosen Option : **2**

---

**Q.20** If $A = \begin{bmatrix} 1 & 1 & -2 \\ 2 & 1 & -3 \\ 5 & 4 & -9 \end{bmatrix}$, find $|A|$.

Ans
- ✗ 1. 3
- ✗ 2. 1
- ✔ 3. 0
- ✗ 4. 2

Question ID : 473941509
Status : **Answered**
Chosen Option : **3**

---

**Q.21** According to Chebyshev's Inequality, which of following is true?

Ans
- ✗ 1. $Pr(|X-\mu| \le k\sigma) = 1/k^2$
- ✗ 2. $Pr(|X-\mu| \ge k\sigma) \ge 1/k^2$
- ✔ 3. $Pr(|X-\mu| \ge k\sigma) \le 1/k^2$

Question ID : 473941553
Status : **Not Attempted**
Chosen Option : **--**

✗ 4. $\Pr(|X-\mu| \geq k\sigma) = 1/k^2$

**Q.22** A cumulative frequency graph is a:

Ans
✗ 1. Bar graph
✔ 2. Curve
✗ 3. Straight line
✗ 4. Parabola

**Q.23** Area of the triangle formed by the points (0, 0), (3, 0) and (0, 4) is:

Ans
✔ 1. 6 sq. units
✗ 2. 4 sq. units
✗ 3. 3 sq. units
✗ 4. 2 sq. units

**Q.24** The degree of the polynomial obtained by the product $(x^2 + 4x + 3)(2x^2 - 9x + 7)$ is:

Ans
✗ 1. 1
✔ 2. 4
✗ 3. 3
✗ 4. 2

**Q.25** A parallelogram is divided into two equal right angle triangles and a rectangle. If the hypotenuse of the triangles is equal to 5 cm and the length of rectangle is equal to 6 cm, find the area of parallelogram.

Ans
✔ 1. 30 cm$^2$
✗ 2. 60 cm$^2$
✗ 3. 40 cm$^2$
✗ 4. 20 cm$^2$

**Q.26** Find the discriminant of $6x^2 + 5x + 7 = 0$.

Ans
✗ 1. 143
✔ 2. −143
✗ 3. −137
✗ 4. 137

**Q.27** Which of the following is the relation between arithmetic mean, geometric mean and harmonic mean?

Ans
✗ 1. $GM = AM \times HM$
✔ 2. $GM^2 = AM \times HM$
✗ 3. $AM^2 = GM \times HM$
✗ 4. $HM^2 = AM \times GM$

**Q.28** $|A \cap B| + |B - A| = $ _____.

Ans
✔ 1. B
✗ 2. A
✗ 3. AUB
✗ 4. Ø

**Q.29** Find the angle between x-axis and the line joining (3, −1) and (4, −2).

**Ans**
- ✗ 1. 45°
- ✗ 2. 270°
- ✗ 3. 90°
- ✔ 4. 135°

**Q.30** What is the most important feature of a constructivist classroom?

**Ans**
- ✗ 1. Teacher asks questions
- ✗ 2. Teacher explains the concept
- ✔ 3. Teacher facilitates conceptual understanding
- ✗ 4. Teacher gives lecture

**Q.31** Which of the following is a rational number?

**Ans**
- ✔ 1. 1.5
- ✗ 2. $\pi$
- ✗ 3. 2.31515…
- ✗ 4. $\sqrt{2}$

**Q.32** If y = 2x + 5 is the best fit for 8 pairs of values(x, y) by the method of least squares and $\sum y = 120$, then $\sum x = $ _____.

**Ans**
- ✗ 1. 30
- ✔ 2. 40
- ✗ 3. 45
- ✗ 4. 35

**Q.33** If $\lambda$ is an eigen value of a matrix A then the eigen value of $A^{-1}$ is:

**Ans**
- ✔ 1. $1/\lambda$
- ✗ 2. $-\lambda$
- ✗ 3. $\lambda$
- ✗ 4. $\lambda^2$

**Q.34**

| Age | Frequency |
|---|---|
| 18 | 12 |
| 19 | 5 |
| 20 | 3 |
| 21 | 9 |
| 22 | 1 |
| 23 | 8 |
| 24 | 12 |
| 25 | 12 |
| 26 | 5 |
| 27 | 3 |
| Total | 71 |

For the given data set what is the mode?

**Ans**
- ✗ 1. 19, 26 are modes
- ✗ 2. No mode
- ✗ 3. 20, 27 are modes

✔ 4. 18, 24, 25 are modes

**Q.35** While converting 1386 into prime factors, how many prime numbers are used?

Ans
- ✔ 1. 4
- ✘ 2. 2
- ✘ 3. 3
- ✘ 4. 1

**Q.36** The point (6, 0) divides the line joining (5, −2) and (9, 6) in the ratio:
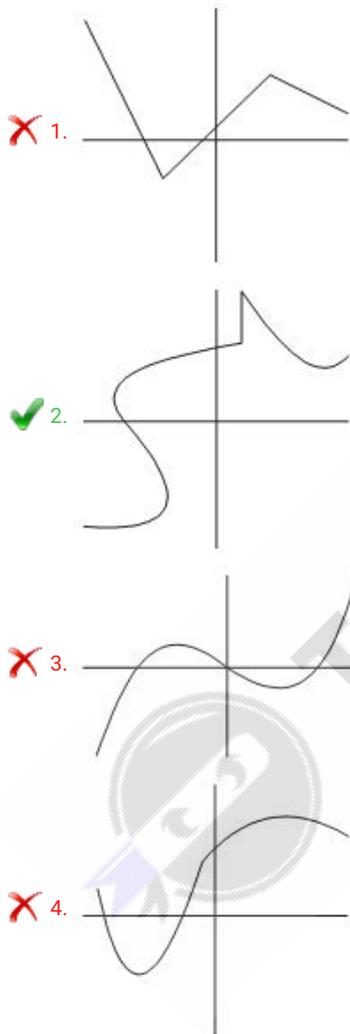
Ans
- ✔ 1. 1 : 3
- ✘ 2. 2 : 3
- ✘ 3. 3 : 2
- ✘ 4. 1 : 2

**Q.37** Which of the following graphs does not represent a function?

Ans

✘ 1.



✔ 2.



✘ 3.



✘ 4.

**Q.38** $\int_0^1 \frac{1}{1+x}\, dx = ?$

Ans
- ✘ 1. $\frac{1}{2}\log 2$
- ✘ 2. $\log 3$
- ✔ 3. $\log 2$
- ✘ 4. 1

**Q.39** $\dfrac{(6x-7)}{4} + \dfrac{(3x-5)}{7} = \dfrac{(5x+78)}{28}$, find the value of $x$?

Ans
- ✗ 1. 6
- ✓ 2. 3
- ✗ 3. 5
- ✗ 4. 4

---

**Q.40** The sides of a right angled triangle are in ratio 3 : 4 : 5 and 'θ' is adjacent to the smallest side then find the ratio of sin θ : cos θ : tan θ.

Ans
- ✗ 1. $4 : 3 : 5$
- ✗ 2. $1 : 2 : 3$
- ✗ 3. $3 : 4 : 5$
- ✓ 4. $12 : 9 : 20$

---

**Q.41**
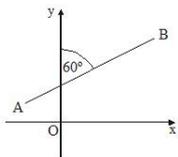


A line makes an angle 60° with the y-axis as shown in the figure, which of the following is false?

Ans
- ✗ 1. The slope of the line is positive
- ✗ 2. The line makes an angle 30° with the x-axis
- ✗ 3. The line passes through both x-axis and y-axis
- ✓ 4. The slope of the line is negative

---

**Q.42** The area of a triangle in which the perpendicular distance from a vertex to its opposite side is 4 cm and the length of that side is 6 cm will be:

Ans
- ✗ 1. 24 cm
- ✓ 2. $12 \text{ cm}^2$
- ✗ 3. $24 \text{ cm}^2$
- ✗ 4. 12 cm

---

**Q.43** The arc length of a sector is 4 cm, find the area of the sector if radius is 5 cm:

Ans
- ✗ 1. $25 \text{ cm}^2$
- ✓ 2. $10 \text{ cm}^2$
- ✗ 3. $40 \text{ cm}^2$
- ✗ 4. $20 \text{ cm}^2$

---

**Q.44** We use intervals to represent data in which of the following?

Ans
- ✗ 1. Ungrouped data
- ✗ 2. Histograms
- ✗ 3. Raw data
- ✓ 4. Grouped data

---

**Q.45** In a triangle ABC, ∠BAC and ∠BCA are complementary, then the largest side of the triangle is:

Ans
- ✗ 1. 10 cm
- ✗ 2. BC
- ✓ 3. AC

✗ 4. AB

---

**Q.46**
$$\frac{(\tan 64° \times \sin 72°)}{(\cos 18° \times \cot 26°)}$$

Ans ✗ 1. $\tan^2 64°$

✗ 2. 2

✗ 3. $\sin^2 72°$

✓ 4. 1

Question ID : **473941526**

Status : **Answered**

Chosen Option : **4**

---

**Q.47** Students do this in a mathematics laboratory:

Ans ✗ 1. Learn and explore mathematical concepts

✓ 2. Perform experiments

✗ 3. Make notes from the board

✗ 4. Conduct quiz

Question ID : **473941593**

Status : **Answered**

Chosen Option : **1**

---

**Q.48** The lines $x - 2y = 0$ and $3x + 4y = 20$ meet at:

Ans ✗ 1. (2, 4)

✓ 2. (4, 2)

✗ 3. (4, 3)

✗ 4. (3, 4)

Question ID : **473941541**

Status : **Answered**

Chosen Option : **2**

---

**Q.49** Let $x_1, x_2$ be the means of two samples of size $n_1, n_2$, then the mean X of combined sample of size $n_1 + n_2$ is:

Ans ✗ 1. $X = \dfrac{(n_1 x_1 \times n_2 x_2)}{n_1 \times n_2}$

✗ 2. $X = \dfrac{(n_1 x_1 + n_2 x_2)}{n_1 - n_2}$

✗ 3. $X = n_1 x_1 + n_2 x_2$

✓ 4. $X = \dfrac{(n_1 x_1 \times n_2 x_2)}{n_1 + n_2}$

Question ID : **473941582**

Status : **Answered**

Chosen Option : **4**

---

**Q.50** $|x| < 2$ is equivalent to:

Ans ✗ 1. $x < 2$

✗ 2. $x > 2$

✗ 3. $x \leq 2$

✓ 4. $-2 < x < 2$

Question ID : **473941551**

Status : **Answered**

Chosen Option : **4**

---

**Q.51** The sum of divisors of the number 432 is:

Ans ✗ 1. 121

✗ 2. 195

✗ 3. 72

✓ 4. 1240

Question ID : **473941507**

Status : **Answered**

Chosen Option : **2**

---

**Q.52** Which of the following is **NOT** a remedy for dealing with misconceptions about "equal sign" in word problems?

Ans ✗ 1.

Modeling the correct use of equal sign while writing on the board

✗ 2.

Question ID : **473941589**

Status : **Answered**

Chosen Option : **2**

Replacing the word "equal to" with synonyms such as "is the same as"

✔ 3.
Reading it aloud to highlight the case of the two being "equal"

✗ 4.
Highlighting and elaborating the logical connection while writing the case study

---

**Q.53** Which of the following statements is true about problem solving?

Ans

✗ 1.
Problem solving does not emphasize on basic skills or understanding of the problem

✔ 2.
Problem solving requires us to combine skills and concepts in order to deal with specific mathematical situations

✗ 3.
Problem solving emphasizes more on understanding the situation

✗ 4.
Problem solving requires only application of skills and knowledge

Question ID : 473941586
Status : **Answered**
Chosen Option : **2**

---

**Q.54** In order to encourage the development of meaning and understanding a teacher should believe that:

Ans

✗ 1. Learners learn by listening actively

✗ 2. Learners listen to the teacher carefully

✗ 3. Learners passively receive information

✔ 4. Learners actively construct knowledge

Question ID : 473941603
Status : **Answered**
Chosen Option : **4**

---

**Q.55** One real root of the equation $x^3 + x - 5 = 0$ lies in the interval.

Ans

✔ 1. $(1, 2)$

✗ 2. $(-3, -2)$

✗ 3. $(3, 4)$

✗ 4. $(2, 3)$

Question ID : 473941512
Status : **Answered**
Chosen Option : **1**

---

**Q.56** The most important stage in problem solving:

Ans

✗ 1. Calculation

✔ 2. Understanding the problem

✗ 3. Application of formula

✗ 4. Reading aloud the problem

Question ID : 473941602
Status : **Answered**
Chosen Option : **2**

---

**Q.57** If $x - b$ is a factor of F(x), then which of the following is TRUE?

Ans

✔ 1. $F(b) = 0$

✗ 2. $F(0) = b$

✗ 3. $F(b) = 1$

✗ 4. $F(1) = b$

Question ID : 473941511
Status : **Answered**
Chosen Option : **1**

---

**Q.58** Derivative of tan $(2x + 3)$ is:

Ans

✔ 1. $2\sec^2 (2x + 3)$

✗ 2. $2\sec^2 (3)$

✗ 3. $3\sec^2 (2x + 3)$

✗ 4. $2\sec^2 (2x)$

Question ID : 473941555
Status : **Answered**
Chosen Option : **1**

**Q.59** Two lines with slopes $m_1$ and $m_2$ are perpendicular then, which of the following is true?

Ans

✗ 1. $m_1 \times m_2 = 0$

✗ 2. $m_1 = m_2$

✗ 3. $\dfrac{m_1}{m_2} = -1$

✔ 4. $m_1 \times m_2 = -1$

**Q.60** A box contains cards numbered from 1 to 17. If one card is drawn at random from the box, find the probability that it bears a prime number.

Ans

✔ 1. 7/17

✗ 2. 9/17

✗ 3. 2/17

✗ 4. 11/17

**Q.61** Which of the following lies between −2 and −3 on the number line?

Ans

✗ 1. $-\sqrt{3}$

✗ 2. $-11/3$

✗ 3. $-4.5$

✔ 4. $-\sqrt{6}$

**Q.62** $3x^2 + 11x + k = 0$ is an equation with reciprocal roots, what is the value of $k$?

Ans

✗ 1. 1

✗ 2. 2

✗ 3. 4

✔ 4. 3

**Q.63** In an arithmetic progression the first term is 34 and the last term is 124. If there are 31 numbers in the progression then the common difference is:

Ans

✔ 1. 3

✗ 2. 12

✗ 3. 8

✗ 4. 19

**Q.64** If α, β are the roots of the equation $4x^2 - 5x + 3 = 0$, then find $\alpha^2\beta + \alpha\beta^2$?

Ans

✔ 1. 15/16

✗ 2. −15/16

✗ 3. −13/16

✗ 4. 13/16

**Q.65** A bag contains 5 red balls, 8 white balls, 4 green balls and 7 black balls, if one ball is drawn at random, find the probability that it is black.

Ans

✔ 1. 7/24

✗ 2. 7/17

✗ 3. 8/24

✗ 4. 5/24

**Q.66** If $A^2 = A$ then the matrix A is:

Ans

✗ 1. Symmetric

✔ 2. Idempotent

✗ 3. Singular

✗ 4. Skew Symmetric

**Q.67** The line passing through (–3, 1) and (2, 1) lies in which of these quadrants?

Ans ✗ 1. 3 and 4

✗ 2. 2 and 3

✗ 3. 1 and 4

✔ 4. 1 and 2

Question ID : **473941562**

Status : **Answered**

Chosen Option : **4**

**Q.68** $(5, -2)$, $(6, 4)$ and $(7, -2)$ are the vertices of:

Ans ✗ 1. Right angled triangle

✗ 2. Scalene triangle

✔ 3. Isosceles triangle

✗ 4. Equilateral triangle

Question ID : **473941557**

Status : **Answered**

Chosen Option : **3**

**Q.69** What are the roots of equation $x^3 - 5x^2 - 2x + 24 = 0$ ?

Ans ✗ 1. 3, 3, 4

✔ 2. –2, 3, 4

✗ 3. 2, –3, 4

✗ 4. 2, 2, 4

Question ID : **473941520**

Status : **Answered**

Chosen Option : **1**

**Q.70** The sum of the eigen values of a matrix is the sum of:

Ans ✗ 1. All the elements of the matrix

✔ 2. Elements in the principle diagonal

✗ 3. Elements in the first row

✗ 4. Elements in the last column

Question ID : **473941508**

Status : **Answered**

Chosen Option : **2**

**Q.71** Let A & B be two events with P(A) = 1/2, P(B) = 1/3 and P(A∩B) = 1/4, then P(A/B) =_____.

Ans ✗ 1. 3/8

✗ 2. 4/7

✗ 3. 7/12

✔ 4. 3/4

Question ID : **473941514**

Status : **Answered**

Chosen Option : **3**

**Q.72** In a survey conducted on 250 persons it was found that 180 drink tea and 70 drink coffee and 50 take both tea and coffee. How many drink neither?

Ans ✗ 1. 200

✗ 2. 60

✔ 3. 50

✗ 4. 110

Question ID : **473941556**

Status : **Answered**

Chosen Option : **3**

**Q.73** Rationalize the denominator for –7/(6+√2):

Ans ✗ 1. 49/34

✗ 2. 34/(7√2 + 42)

✗ 3. (7√2 + 42)/34

✔ 4. (7√2 – 42)/34

Question ID : **473941525**

Status : **Answered**

Chosen Option : **4**

**Q.74** Which of the following is not an advantage of discovery method?

Ans

✗ 1. The student develops an interest in what is he is learning

✗ 2. The student understands what he learns and is thus better able to remember it and to use it in other situations

✔ 3. The student always verbalizes the problem

✗ 4. The student learns a way of going about learning on his own

Question ID : **473941584**
Status : **Answered**
Chosen Option : **3**

---

**Q.75** A teacher needs to conduct quiz:

Ans

✗ 1. During the lesson

✗ 2. Only before the lesson begins

✗ 3. Only after teaching the topics

✔ 4. Depending on the situation

Question ID : **473941590**
Status : **Answered**
Chosen Option : **4**

---

**Q.76** a, b, c are three sides of a triangle then which of the following is true?

Ans

✗ 1. $a + b = c$

✗ 2. $a + b \leq c$

✔ 3. $a + b > c$

✗ 4. $a + b \geq c$

Question ID : **473941574**
Status : **Answered**
Chosen Option : **4**

---

**Q.77** Roots of the equation $x^2 - 9x + 6 = 0$ are:

Ans

✗ 1. 3, 2

✗ 2. $\dfrac{6 \pm \sqrt{69}}{2}$

✔ 3. $\dfrac{9 \pm \sqrt{57}}{2}$

✗ 4. 9, 6

Question ID : **473941531**
Status : **Answered**
Chosen Option : **3**

---

**Q.78** The fundamentals to knowing and doing mathematics:

Ans

✗ 1. Thinking logically

✗ 2. Proof and Proving

✔ 3. Analysis and Reasoning

✗ 4. Knowing formulas

Question ID : **473941585**
Status : **Answered**
Chosen Option : **1**

---

**Q.79** Measuring the weights of ingredients will develop the skill of:

Ans

✗ 1. Cooking

✗ 2. Calculating

✗ 3. Measurement

✔ 4. Analyzing

Question ID : **473941595**
Status : **Answered**
Chosen Option : **2**

---

**Q.80** End of the term examination is called:

Ans

✗ 1. Board examination

✔ 2. Summative assessment

Question ID : **473941599**
Status : **Answered**
Chosen Option : **2**

**Q.81** 10 students of class x took part in mathematics quiz. If number of girls who took part in quiz is 4 more than the number of boys, how many girls and boys took part in the quiz?

**Ans**

✗ 1. 6 girls, 4 boys

✗ 2. 7 boys, 3 girls

✗ 3. 6 boys, 4 girls

✔ 4. 7 girls, 3 boys

Question ID : **473941540**

Status : **Answered**

Chosen Option : **4**

---

**Q.82** Find the remainder for $f(x) = 3x^2 - 5x^3 + 57$ when divided by $(x + 2)$

**Ans**

✗ 1. 3

✔ 2. 1

✗ 3. 2

✗ 4. 0

Question ID : **473941532**

Status : **Answered**

Chosen Option : **1**

---

**Q.83** To compare the cost of different items in a menu, students need to be:

**Ans**

✔ 1. Taken to a nearby hotel

✗ 2. Taken to different hotels

✗ 3. Taken to a math lab

✗ 4. Taken outside the classroom

Question ID : **473941594**

Status : **Answered**

Chosen Option : **2**

---

**Q.84** According to Cauchy-Schwarz, if $x^2 + y^2 + z^2 = 1$, then what is the maximum value of $x + 2y + 3z = 0$?

**Ans**

✗ 1. $\sqrt{25}$

✗ 2. $\sqrt{10}$

✔ 3. $\sqrt{14}$

✗ 4. $\sqrt{20}$

Question ID : **473941552**

Status : **Answered**

Chosen Option : **3**

---

**Q.85** Who can participate in mathematics club activities?

**Ans**

✗ 1. Only from classes 4 to 8

✔ 2. All classes from 1 to 10

✗ 3. Only from classes 3 to 5

✗ 4. Only from classes 4 to 10

Question ID : **473941591**

Status : **Answered**

Chosen Option : **2**

---

**Q.86** Frustum of cone can be determined using:

**Ans**

✗ 1. $V = \frac{\pi h}{3}(R^2 + rR - r^2)$

✗ 2. $V = \frac{4\pi h}{3}(R^2 + rR + r^2)$

✗ 3. $V = \frac{\pi h}{2}(R^2 + rR + r^2)$

✔ 4. $V = \frac{\pi h}{3}(R^2 + rR + r^2)$

Question ID : **473941568**

Status : **Answered**

Chosen Option : **1**

---

**Q.87** If 'a' and 'b' are any two whole numbers then $(-a)^3 \times (-b)^3$ will be:

**Ans**

✔ 1. $(ab)^3$

Question ID : **473941524**

Status : **Answered**

Chosen Option : **1**

✘ 2. 0

✘ 3. May be '0' or '(ab)³' or '– (ab)³'

✘ 4. –(ab)³

**Q.88** According to Greatest Integer Function, [–2.3] = _____.

Ans

✘ 1. 2.3

✘ 2. –2

✔ 3. –3

✘ 4. 3

Question ID : **473941523**

Status : **Not Attempted**

Chosen Option : --

**Q.89** If each term of an arithmetic progression is multiplied or divided by the same non-zero constant, the resulting sequence will be in:

Ans

✘ 1. Geometric progression

✔ 2. Arithmetic progression

✘ 3. All terms become equal

✘ 4. Harmonic progression

Question ID : **473941549**

Status : **Answered**

Chosen Option : **1**

**Q.90** The distance between points (3, 4) and (–1, 4) is:

Ans

✘ 1. 3

✔ 2. 4

✘ 3. 10

✘ 4. 6

Question ID : **473941563**

Status : **Answered**

Chosen Option : **2**

**Q.91** According to lehmus steiner theorem which of the following is true?

Ans

✘ 1.
Every triangle with two angle bisectors of equal lengths is acute angled

✔ 2.
Every triangle with two angle bisectors of equal lengths is isosceles

✘ 3.
Every triangle with two angle bisectors of equal lengths is equilateral

✘ 4.
Every triangle with two angle bisectors of equal lengths is right angled

Question ID : **473941560**

Status : **Not Attempted**

Chosen Option : --

**Q.92** If A and B are two finest sets, then AU(B∩C) =?

Ans

✘ 1. (AUB)∩C

✔ 2. (AUB)∩(AUC)

✘ 3. (A∩B)∩C

✘ 4. (A∩B)U(A∩C)

Question ID : **473941554**

Status : **Answered**

Chosen Option : **2**

**Q.93** One real root of the equation $x^3 + x - 2 = 0$ is:

Ans

✔ 1. 1

✘ 2. –2

✘ 3. –1

✘ 4. 2

Question ID : **473941518**

Status : **Answered**

Chosen Option : **1**

**Q.94** Use of graphing calculator is:

Ans

✔ 1. An advanced compulsory tool

Question ID : **473941597**

Status : **Answered**

✗ 2. A advanced non-compulsory tool

✗ 3. A non-advanced compulsory tool

✗ 4. A non-advanced non-compulsory tool

---

**Q.95** The sum of n terms of an arithmetic progression is 364 and the sum of (n – 1) terms is 340 then the $n^{th}$ term of the progression is:

Ans
✗ 1. 42

✗ 2. 36

✗ 3. 40

✓ 4. 24

---

**Q.96** If 3x + 2y = 6, 6x + 4y = 12 are two linear equations, then which of the following is true?

Ans
✗ 1.

The pair of equations have only one solution

✗ 2. The pair of equations have finite solution

✓ 3. The pair of equations have infinite solution

✗ 4. The pair of equations have no solution

---

**Q.97** The values of $x$ by solving the trinomial $2x^2 + 9x - 5$ are:

Ans
✗ 1. −1/5, 2

✗ 2. −1/2, 5

✗ 3. 1/5, 2

✓ 4. 1/2, −5

---

**Q.98** Consider three points a, b, c on a circle, points a and b make an angle 40° at c, then what is the angle made by a and b at the center?

Ans
✓ 1. 80°

✗ 2. 40°

✗ 3. 60°

✗ 4. 100°

---

**Q.99** If two lines are parallel then how many solutions are there?

Ans
✓ 1. No solution

✗ 2. Finite solutions

✗ 3. Infinite solutions

✗ 4. One solution

---

**Q.100** Identify the roots of the equation $x^2 - 4x + 6 = 0$.

Ans
✗ 1. ±2

✗ 2. $-2 \pm i\sqrt{2}$

✓ 3. $2 \pm i\sqrt{2}$

✗ 4. $2 \pm \sqrt{2}$