

OAVS TGT

**Previous Year Paper
(Mathematics)**

19 May, 2023 Shift 1



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Participant ID	
Participant Name	
Test Center Name	
Test Date	19/05/2023
Test Time	9:00 AM - 12:20 PM
Subject	TGT Mathematics

Section : Language Proficiency Test-General English

Q.1 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
The Opposition Leader's / politely address bewildered / all the members / of the Upper House.

Ans ☒ 1. politely address bewildered
 ☐ 2. of the Upper House
 ☐ 3. The Opposition Leader's
 ☐ 4. all the members

Question ID : 630680226466
Option 1 ID : 630680878572
Option 2 ID : 630680878574
Option 3 ID : 630680878571
Option 4 ID : 630680878573
Status : Answered
Chosen Option : 1

Q.2 Select the option that expresses the given sentence in active voice.
Financial assistance is being sought by many people from the government.

Ans ☒ 1. Many people are seeking financial assistance from the government.
 ☐ 2. Many people have been seeking financial assistance from the government.
 ☐ 3. Many people were seeking financial assistance from the government.
 ☐ 4. Many people have sought financial assistance from the government.

Question ID : 630680226472
Option 1 ID : 630680878595
Option 2 ID : 630680878598
Option 3 ID : 630680878597
Option 4 ID : 630680878596
Status : Answered
Chosen Option : 1

Q.3 Select the option that expresses the given sentence in direct speech.
The police officer warned the thief not to move.

- Ans
- ☒ 1. The police officer said to the thief, "You are not allowed to move."
 - ☒ 2. The police officer told the thief, " Beware of moving!"
 - ☒ 3. The police officer asked the thief, "You don't move!"
 - ☒ 4. The police officer said to the thief, "Don't move!"

Question ID : 630680226470
Option 1 ID : 630680878587
Option 2 ID : 630680878589
Option 3 ID : 630680878590
Option 4 ID : 630680878588
Status : Answered
Chosen Option : 4

Q.4 Select the most appropriate synonym of the word given in brackets to fill in the blank.
It is difficult to consider these people _____ (friendly) although they appear to be so.

- Ans
- ☒ 1. reclusive
 - ☒ 2. convivial
 - ☒ 3. standoffish
 - ☒ 4. taciturn

Question ID : 630680226455
Option 1 ID : 630680878527
Option 2 ID : 630680878530
Option 3 ID : 630680878528
Option 4 ID : 630680878529
Status : Not Answered
Chosen Option : --

Q.5 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
Shantanu and his / friends are visiting / India to meet you / and I this April itself.

- Ans
- ☒ 1. Shantanu and his
 - ☒ 2. and I this April itself
 - ☒ 3. India to meet you
 - ☒ 4. friends are visiting

Question ID : 630680226467
Option 1 ID : 630680878575
Option 2 ID : 630680878578
Option 3 ID : 630680878577
Option 4 ID : 630680878576
Status : Answered
Chosen Option : 2

Q.6 Select the correctly spelt word to fill in the blank.
He was given just two _____ pieces of toast for breakfast.

- Ans
- ☒ 1. minescale
 - ☒ 2. minescale
 - ☒ 3. minuscule
 - ☒ 4. minuscale

Question ID : 630680226459
Option 1 ID : 630680878543
Option 2 ID : 630680878546
Option 3 ID : 630680878544
Option 4 ID : 630680878545
Status : Not Answered
Chosen Option : --

Q.7 Select the correctly spelt word to fill in the blank.
Pipelines are usually inspected externally from _____.

- Ans
- ☒ 1. submercibles
 - ☒ 2. submarcibles
 - ☒ 3. submersibles
 - ☒ 4. sabmercibles

Question ID : 630680226458
Option 1 ID : 630680878540
Option 2 ID : 630680878542
Option 3 ID : 630680878539
Option 4 ID : 630680878541
Status : Answered
Chosen Option : 3

Q.8 Select the most appropriate option to fill in the blanks.

ZaitAit Malek's focus right now is the start of this 27-kilometer run through mountains high above the southern Spanish coast. "Two, one." When the signal sounds, the 'sky runners' _____ away and quickly disappear. Some 120 elite runners from across Spain are _____ for a trophy and a prize (Rupees 1,05,780 for the winner).

- Ans
- ☒ 1. brisk, moving
 - ☒ 2. look, trying
 - ☒ 3. move, working
 - ☒ 4. pound, competing

Question ID : 630680226462
Option 1 ID : 630680878558
Option 2 ID : 630680878556
Option 3 ID : 630680878555
Option 4 ID : 630680878557
Status : Answered
Chosen Option : 1

Q.9 Select the most appropriate option to fill in the blanks.

The past is back in the headlines with a vengeance. In Egypt, a new _____ was discovered in the Great Pyramid. It is about 9 metres, and its _____ is unknown.

- Ans ☒ 1. chamber, function
 ☐ 2. object, colour
 ☐ 3. church, explorer
 ☐ 4. aspect, purpose

Question ID : 630680226460
Option 1 ID : 630680878547
Option 2 ID : 630680878548
Option 3 ID : 630680878549
Option 4 ID : 630680878550
Status : Answered
Chosen Option : 2

Q.10 Select the option that expresses the given sentence in reported speech.
Rohit said, "Rajesh, will you go out with me tomorrow?"

- Ans ☐ 1. Rohit asked Rajesh if he will go out with him the day before.
 ☐ 2. Rohit asked Rajesh whether he will be going out with him the next day.
 ☒ 3. Rohit asked Rajesh if he would go out with him the next day.
 ☐ 4. Rohit asked Rajesh if he would go out with me the next day.

Question ID : 630680226469
Option 1 ID : 630680878584
Option 2 ID : 630680878586
Option 3 ID : 630680878583
Option 4 ID : 630680878585
Status : Answered
Chosen Option : 3

Q.11 Select the option that can be used as a one-word substitute for the underlined group of words.
The king of Denmark is fond of wearing an ornamented belt over his shoulder to support the sword.

- Ans ☐ 1. coverlet
 ☐ 2. garland
 ☐ 3. hauberk
 ☒ 4. baldric

Question ID : 630680226463
Option 1 ID : 630680878560
Option 2 ID : 630680878559
Option 3 ID : 630680878562
Option 4 ID : 630680878561
Status : Not Answered
Chosen Option : --

Q.12 Select the option that expresses the given sentence in passive voice.
The man in blue reminded her to be present for the meeting on time.

- Ans ☒ 1. She was reminded to be present for the meeting on time by the man in blue.
- ☐ 2. She reminded to be present for the meeting on time by the man in blue.
- ☐ 3. She is reminded to attend the meeting by the man in blue.
- ☐ 4. She had been reminded to be present for the meeting on time by the man in blue.

Question ID : 630680226471
Option 1 ID : 630680878593
Option 2 ID : 630680878592
Option 3 ID : 630680878591
Option 4 ID : 630680878594
Status : Answered
Chosen Option : 1

Q.13 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
The topic of research / that I have chosen / has been quite an / interested one to work upon.

- Ans ☐ 1. has been quite an
- ☒ 2. interested one to work upon
- ☐ 3. The topic of research
- ☐ 4. that I have chosen

Question ID : 630680226468
Option 1 ID : 630680878581
Option 2 ID : 630680878582
Option 3 ID : 630680878579
Option 4 ID : 630680878580
Status : Answered
Chosen Option : 2

Q.14 Select the most appropriate ANTONYM of the word given in brackets to fill in the blank.
John's _____ (frugality) has been a cause of concern for his parents.

- Ans ☐ 1. fearlessness
- ☐ 2. fruitfulness
- ☒ 3. extravagancy
- ☐ 4. parsimony

Question ID : 630680226453
Option 1 ID : 630680878519
Option 2 ID : 630680878521
Option 3 ID : 630680878520
Option 4 ID : 630680878522
Status : Answered
Chosen Option : 3

Q.15 Select the most appropriate option to fill in the blanks.

Effective altruism is an intellectual and charitable movement that aspires to find the best ways to help others. People dedicated to it _____ evidence and rational arguments to _____ what they can do to make the most progress toward solving the world's most pressing problems.

- Ans ☒ 1. rely on, identify
- ☐ 2. decide about, develop
- ☐ 3. think of, work on
- ☐ 4. ask for, think

Question ID : 630680226461
Option 1 ID : 630680878554
Option 2 ID : 630680878551
Option 3 ID : 630680878552
Option 4 ID : 630680878553
Status : Answered
Chosen Option : 3

Q.16 Select the most appropriate meaning of the given phrase.
Get the show on the road

- Ans ☐ 1. To showcase the new road
- ☐ 2. To get a road cleaned
- ☐ 3. To plan a show for someone
- ☒ 4. To put a plan into action

Question ID : 630680226457
Option 1 ID : 630680878535
Option 2 ID : 630680878536
Option 3 ID : 630680878538
Option 4 ID : 630680878537
Status : Answered
Chosen Option : 4

Q.17 Select the most appropriate meaning of the given idiom.
Play (merry) hell with

- Ans ☐ 1. To play merrily in hell
- ☐ 2. To ruin a good place
- ☒ 3. To disturb greatly
- ☐ 4. To distract someone

Question ID : 630680226456
Option 1 ID : 630680878531
Option 2 ID : 630680878533
Option 3 ID : 630680878534
Option 4 ID : 630680878532
Status : Not Answered
Chosen Option : --

Q.18 Select the option that can be used as a substitute for the underlined group of words.
Many people nowadays are found fooling around and wasting their time in meaningless things.

- Ans
- ☒ 1. betraying others
 - ☒ 2. spending immensely
 - ☒ 3. lollygagging
 - ☒ 4. deceiving themselves

Question ID : 630680226464
Option 1 ID : 630680878566
Option 2 ID : 630680878564
Option 3 ID : 630680878563
Option 4 ID : 630680878565
Status : Answered
Chosen Option : 1

Q.19 The following sentence has been split into four segments. Identify the segment that contains a spelling error.
His nature of / being quiet / considerate is / his forte.

- Ans
- ☒ 1. His nature of
 - ☒ 2. being quiet
 - ☒ 3. considerate is
 - ☒ 4. his forte

Question ID : 630680226465
Option 1 ID : 630680878567
Option 2 ID : 630680878568
Option 3 ID : 630680878569
Option 4 ID : 630680878570
Status : Answered
Chosen Option : 3

Q.20 Select the most appropriate ANTONYM of the word given in brackets to fill in the blank.
Rohan's _____ (sobersided) remarks changed the entire course of the discussion.

- Ans
- ☒ 1. businesslike
 - ☒ 2. incompetent
 - ☒ 3. facetious
 - ☒ 4. solemn

Question ID : 630680226454
Option 1 ID : 630680878525
Option 2 ID : 630680878526
Option 3 ID : 630680878524
Option 4 ID : 630680878523
Status : Answered
Chosen Option : 1

Q.1 ବର୍ଷରେ ରାସା _____ କରୁଛି ।

- Ans
- ☒ 1. ଚକଚକ
 - ☒ 2. ପବ୍‌ପବ୍
 - ☒ 3. ପିବ୍‌ପିବ୍
 - ☒ 4. ଚପ୍‌ଚପ

Question ID : 630680226545
Option 1 ID : 630680878889
Option 2 ID : 630680878890
Option 3 ID : 630680878887
Option 4 ID : 630680878888
Status : Answered
Chosen Option : 2

Q.2 'ନିଜଲୋକ ଭଲ ନହେବା' ପାଇଁ କେଉଁ ପ୍ରବାଦଟି ଉପଯୁକ୍ତ?

- Ans
- ☒ 1. ଫଟାଦର୍ପଣରେ ଘୁଞ୍ଚି ଦେଖିବା
 - ☒ 2. ଆପଣାହାତ ପୋଡ଼ାକାଠ
 - ☒ 3. ଆପଣାହସ୍ତେ ଜିହ୍ଵା ଛେଦି
 - ☒ 4. ଆପଣା ସୁନା ଭେଣ୍ଟି

Question ID : 630680226549
Option 1 ID : 630680878906
Option 2 ID : 630680878905
Option 3 ID : 630680878904
Option 4 ID : 630680878903
Status : Answered
Chosen Option : 4

Q.3 ଚରିତ୍ର ନ ଥିଲେ _____ କି ପ୍ରୟୋଜନ ! - ନିମ୍ନମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଶବ୍ଦ ଯୋଗରେ ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର ।

- Ans
- ☒ 1. ଭ୍ରମଣରେ
 - ☒ 2. ବାସରେ
 - ☒ 3. ଜୀବନରେ
 - ☒ 4. ଖାଦ୍ୟରେ

Question ID : 630680226533
Option 1 ID : 630680878840
Option 2 ID : 630680878842
Option 3 ID : 630680878839
Option 4 ID : 630680878841
Status : Answered
Chosen Option : 3

Q.4 ଶୁଦ୍ଧ ଶବ୍ଦଟିକୁ ଚିହ୍ନଟ କର ।

- Ans
- ✗ 1. ଗୋଲୋକବିହାରୀ
 - ✗ 2. ଗୋଲୋକବିହାରି
 - ✗ 3. ଗୋଲକବିହାରୀ
 - ✓ 4. ଗୋଲୋକବିହାରୀ

Question ID : 630680226539
Option 1 ID : 630680878865
Option 2 ID : 630680878866
Option 3 ID : 630680878863
Option 4 ID : 630680878864
Status : Answered
Chosen Option : 4

Q.5 'କପାଳ ଫିଟିବା' ରୁଢ଼ିର ଅର୍ଥ କ'ଣ?

- Ans
- ✗ 1. ଆଶ୍ରା ପାଇବା
 - ✗ 2. ସର୍ବନାଶ ହେବା
 - ✗ 3. ଦୁର୍ଦ୍ଦିନ ଆସିବା
 - ✓ 4. ସୁଦିନ ଆସିବା

Question ID : 630680226547
Option 1 ID : 630680878898
Option 2 ID : 630680878897
Option 3 ID : 630680878896
Option 4 ID : 630680878895
Status : Answered
Chosen Option : 4

Q.6 ଲୀଳାବତୀ ଗୁଣରେ _____ ଥିଲେ ।

- Ans
- ✗ 1. ଗରୀୟସି
 - ✓ 2. ଗରୀୟସୀ
 - ✗ 3. ଗରିୟସୀ
 - ✗ 4. ଗରିୟସି

Question ID : 630680226540
Option 1 ID : 630680878868
Option 2 ID : 630680878870
Option 3 ID : 630680878869
Option 4 ID : 630680878867
Status : Answered
Chosen Option : 1

Q.7 'ବିହ୍ୱାହାରୀ'ର ବିପରୀତାର୍ଥ ବୋଧକ ଶବ୍ଦ ଚିହ୍ନଟ କର ।

- Ans
- ✗ 1. ଅମିତାହାରୀ
 - ✓ 2. ଅନ୍ଧାହାରୀ
 - ✗ 3. ଅତ୍ୟାହାରୀ
 - ✗ 4. ପ୍ରତ୍ୟାହାରୀ

Question ID : 630680226543
Option 1 ID : 630680878881
Option 2 ID : 630680878879
Option 3 ID : 630680878880
Option 4 ID : 630680878882
Status : Not Answered
Chosen Option : --

Q.8 ଯେଉଁ ବାକ୍ୟରେ ଗୋଟିଏ ପ୍ରଧାନବାକ୍ୟ ଓ ଏକ ବା ଏକାଧିକ ଅପ୍ରଧାନ ବାକ୍ୟ ଥାଆନ୍ତି ଏବଂ ଏଗୁଡ଼ିକ ପ୍ରଧାନ ବାକ୍ୟ ଉପରେ ଅର୍ଥବୋଧ ପାଇଁ ନିର୍ଭର କରୁଥାନ୍ତି- ତାକୁ କେଉଁ ବାକ୍ୟ କୁହାଯାଏ?

- Ans
- ☒ 1. ଯୌଗିକ
 - ☒ 2. ସରଳ
 - ☒ 3. ଜଟିଳ
 - ☒ 4. ମିଶ୍ର

Question ID : 630680226552
Option 1 ID : 630680878916
Option 2 ID : 630680878915
Option 3 ID : 630680878917
Option 4 ID : 630680878918
Status : Answered
Chosen Option : 4

Q.9 ଶୁଦ୍ଧବାକ୍ୟଟି ଚିହ୍ନାଇ ଦିଅ ।

- Ans
- ☒ 1. ଗୋଲକ ବିହାରୀ ଧଳ ଜଣେ ଭାଷାତତ୍ତ୍ୱବିତ୍ ଥିଲେ ।
 - ☒ 2. ଗୋଲକବିହାରୀ ଧଳ ଜଣେ ଭାଷାତତ୍ତ୍ୱବିତ୍ ଥିଲେ ।
 - ☒ 3. ଗୋଲକବିହାରୀ ଧଳ ଜଣେ ଭାଷାତତ୍ତ୍ୱବିତ୍ ଥିଲେ ।
 - ☒ 4. ଗୋଲୋକବିହାରୀ ଧଳ ଜଣେ ଭାଷାତତ୍ତ୍ୱବିତ୍ ଥିଲେ ।

Question ID : 630680226541
Option 1 ID : 630680878874
Option 2 ID : 630680878873
Option 3 ID : 630680878871
Option 4 ID : 630680878872
Status : Answered
Chosen Option : 4

Q.10 କର୍ତ୍ତୃବାଚ୍ୟର ବାକ୍ୟକୁ କର୍ମବାଚ୍ୟରେ ରୂପାନ୍ତରିତ କଲାବେଳେ ମୂଳ ବାକ୍ୟର କର୍ତ୍ତାଠାରେ କେଉଁ ବିଭକ୍ତି ହୋଇଥାଏ?

- Ans
- ☒ 1. ପ୍ରଥମା
 - ☒ 2. ଚତୁର୍ଥୀ ବା ପଞ୍ଚମୀ
 - ☒ 3. ଚତୁର୍ଥୀ
 - ☒ 4. ଦ୍ୱିତୀୟା ବା ତୃତୀୟା

Question ID : 630680226551
Option 1 ID : 630680878911
Option 2 ID : 630680878914
Option 3 ID : 630680878913
Option 4 ID : 630680878912
Status : Not Answered
Chosen Option : --

Q.11 _____ ଭକ୍ତଙ୍କୁ ଶୈବ କୁହାଯାଏ । - ନିମ୍ନମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଶବ୍ଦ ଯୋଗରେ ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର ।

- Ans
- ☒ 1. ପାର୍ବତୀଙ୍କର
 - ☒ 2. ଶୈବଙ୍କର
 - ☒ 3. ସହସ୍ରାକ୍ଷଙ୍କର
 - ☒ 4. ସୁରପତିଙ୍କର

Question ID : 630680226534
Option 1 ID : 630680878844
Option 2 ID : 630680878845
Option 3 ID : 630680878846
Option 4 ID : 630680878843
Status : Answered
Chosen Option : 2

Q.12 ସେ _____ ପାଣିରେ ଗୋଡ଼ ଦେବା ଲୋକ ବୁଝନ୍ତି । - ନିମ୍ନମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଶବ୍ଦ ଯୋଗରେ ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର ।

- Ans
- ☒ 1. ସ୍ଥିର
 - ☒ 2. ଭାସିଲା
 - ☒ 3. ହଲିଲା
 - ☒ 4. ବୋହିଲା

Question ID : 630680226537
Option 1 ID : 630680878856
Option 2 ID : 630680878857
Option 3 ID : 630680878855
Option 4 ID : 630680878858
Status : Answered
Chosen Option : 3

Q.13 'ସାକାର'ର ବିପରୀତାର୍ଥବୋଧକ ଶବ୍ଦ ଲେଖ ।

- Ans
- ☒ 1. ଆକାର
 - ☒ 2. ନିରାକାର
 - ☒ 3. ଆଶାକାର
 - ☒ 4. ବିକାର

Question ID : 630680226544
Option 1 ID : 630680878884
Option 2 ID : 630680878886
Option 3 ID : 630680878883
Option 4 ID : 630680878885
Status : Answered
Chosen Option : 2

Q.14 'ଆଖିରେ ନାଟିବା' ରୁଟି କେଉଁ ଅର୍ଥରେ ବ୍ୟବହୃତ ହୁଏ?

Ans ☒ 1. ଠାରିକାରି କହିବା

☒ 2. ଦେଖିପାରିବା

☒ 3. ଦେଖାଇ ହେବା

☒ 4. ନଜେପଡ଼ିବା

Question ID : 630680226546

Option 1 ID : 630680878892

Option 2 ID : 630680878893

Option 3 ID : 630680878891

Option 4 ID : 630680878894

Status : Answered

Chosen Option : 4

Q.15 ଗଙ୍ଗାକର ପ୍ରତିଶବ୍ଦ କେଉଁଟି ହୁଏ?

Ans ☒ 1. ସ୍ଵରାଧୁନୀ

☒ 2. ବିଷ୍ଣୁପଦୀ

☒ 3. ତ୍ରିପଥଗା

☒ 4. ନିମ୍ବଗା

Question ID : 630680226542

Option 1 ID : 630680878876

Option 2 ID : 630680878878

Option 3 ID : 630680878875

Option 4 ID : 630680878877

Status : Answered

Chosen Option : 4

Q.16 'ବିରାଡ଼ି ଛିଙ୍କିବା'ର ପ୍ରକୃତ ଅର୍ଥ କ'ଣ ?

Ans ☒ 1. ବୈଷ୍ଣବଘର ବିରାଡ଼ି

☒ 2. ଆମିଷ ଭକ୍ଷଣ କରୁନଥିବା ବିରାଡ଼ି

☒ 3. ବୈଷ୍ଣବ ପରି ବିରାଡ଼ି

☒ 4. ଅଶୁଭ ସଂକେତ

Question ID : 630680226538

Option 1 ID : 630680878859

Option 2 ID : 630680878862

Option 3 ID : 630680878861

Option 4 ID : 630680878860

Status : Answered

Chosen Option : 4

Q.17 'ଉପଚୟନ'ର ବିପରୀତାର୍ଥବୋଧକ ଶବ୍ଦଟି କ'ଣ ?

- Ans
- ☒ 1. ଅନୁଚୟନ
 - ☒ 2. ନିଚୟନ
 - ☒ 3. ଆପଚୟନ
 - ☒ 4. ଅନୁପଚୟନ

Question ID : 630680226536
Option 1 ID : 630680878851
Option 2 ID : 630680878852
Option 3 ID : 630680878853
Option 4 ID : 630680878854
Status : Answered
Chosen Option : 3

Q.18 'ଯତି ପଡ଼ିବା' ରୁଢ଼ିର ଅର୍ଥ କ'ଣ?

- Ans
- ☒ 1. ମୋଳ ଖାଇବା
 - ☒ 2. ଏକାଠି ରହିବା
 - ☒ 3. ମିତ ବସିବା
 - ☒ 4. ମିଳିତ ହେବା

Question ID : 630680226548
Option 1 ID : 630680878900
Option 2 ID : 630680878902
Option 3 ID : 630680878899
Option 4 ID : 630680878901
Status : Answered
Chosen Option : 1

Q.19 'ମେଘ'ର ସମାର୍ଥବୋଧକ ଶବ୍ଦଟି କ'ଣ ?

- Ans
- ☒ 1. ଆପଗା
 - ☒ 2. ଅଗୁଧ୍
 - ☒ 3. ମହାଧର
 - ☒ 4. ବଳାହଳ

Question ID : 630680226535
Option 1 ID : 630680878849
Option 2 ID : 630680878847
Option 3 ID : 630680878850
Option 4 ID : 630680878848
Status : Not Answered
Chosen Option : --

Q.20 'ପଞ୍ଜେପଲେ ଗମନ' ପ୍ରତିବଦଳରେ କେଉଁ ଶବ୍ଦ ବ୍ୟବହାର କରାଯାଇ ପାରେ?

- Ans
- ✓ 1. ଅନୁଗମନ
 - ✗ 2. ଅନୁସରଣ
 - ✗ 3. ଅନୁଧ୍ୟାନ
 - ✗ 4. ପଶ୍ଚାତ୍ତ୍ୟାଗ

Question ID : 630680226550
Option 1 ID : 630680878909
Option 2 ID : 630680878907
Option 3 ID : 630680878908
Option 4 ID : 630680878910
Status : Answered
Chosen Option : 1

Section : Current Affairs

Q.1 Prime Minister Narendra Modi inaugurated the _____ cultural festival at Talkatora Stadium in Delhi on 25th February 2023.

- Ans
- ✗ 1. Baisakhi
 - ✓ 2. Barisu Kannada Dim Dimava
 - ✗ 3. Hemis
 - ✗ 4. Thrissur Pooram

Question ID : 630680226501
Option 1 ID : 630680878713
Option 2 ID : 630680878712
Option 3 ID : 630680878714
Option 4 ID : 630680878711
Status : Answered
Chosen Option : 1

Q.2 The Reserve Bank of India's Monetary Policy Committee (MPC) recently announced the first bi-monthly monetary policy of FY2023-24 where the RBI Governor Shaktikanta Das revealed that the MPC has unanimously decided to keep the repo rate unchanged at _____%.

- Ans
- ✗ 1. 5.45
 - ✓ 2. 6.50
 - ✗ 3. 3.65
 - ✗ 4. 4.87

Question ID : 630680226486
Option 1 ID : 630680878654
Option 2 ID : 630680878653
Option 3 ID : 630680878651
Option 4 ID : 630680878652
Status : Answered
Chosen Option : 2

Q.3 2023 ISSF Shooting World Cup was held in Cairo. India's two players won gold. This is the first time India won gold in this competition. Name the two players.

- Ans
- ☒ 1. Ruturaj Singh and Gagan Narang
 - ☒ 2. Abhinav Bindra and Manu Bhaker
 - ☒ 3. Saurabh Chaudhary and Heena Sindhu
 - ☒ 4. Rudranksh Patil and R Narmada Nithin

Question ID : 630680226477
Option 1 ID : 630680878617
Option 2 ID : 630680878615
Option 3 ID : 630680878618
Option 4 ID : 630680878616
Status : Answered
Chosen Option : 4

Q.4 To reduce pollution in the Ganga river, the Namami Gange Executive Committee approved nine projects. These projects are to be implemented at a cost of ₹_____.

- Ans
- ☒ 1. 3,000 crore
 - ☒ 2. 1,200 crore
 - ☒ 3. 2,500 crore
 - ☒ 4. 3,200 crore

Question ID : 630680226489
Option 1 ID : 630680878666
Option 2 ID : 630680878664
Option 3 ID : 630680878665
Option 4 ID : 630680878663
Status : Answered
Chosen Option : 4

Q.5 Agricultural and Processed Food Export Development Authority (APEDA) is participating in the 28th edition of Gulfood 2023, which will be held in _____.

- Ans
- ☒ 1. United Arab Emirates
 - ☒ 2. China
 - ☒ 3. United Kingdom
 - ☒ 4. Japan

Question ID : 630680226492
Option 1 ID : 630680878676
Option 2 ID : 630680878678
Option 3 ID : 630680878677
Option 4 ID : 630680878675
Status : Answered
Chosen Option : 1

Q.6 India and _____ have made plans to strengthen cooperation in the fields of skill development and education through joint collaborations in April 2022.

- Ans
- ☐ 1. China
 - ☐ 2. the United Kingdom
 - ☐ 3. Australia
 - ☒ 4. the United States of America

Question ID : 630680226495
Option 1 ID : 630680878689
Option 2 ID : 630680878687
Option 3 ID : 630680878690
Option 4 ID : 630680878688
Status : Answered
Chosen Option : 3

Q.7 The Ministry of Culture announced in March 2023 that the Government of India will launch yearlong celebrations marking the _____ birth anniversary of the reformer Sevala Maharaj.

- Ans
- ☐ 1. 154th
 - ☐ 2. 312th
 - ☐ 3. 465th
 - ☒ 4. 284th

Question ID : 630680226499
Option 1 ID : 630680878703
Option 2 ID : 630680878705
Option 3 ID : 630680878706
Option 4 ID : 630680878704
Status : Not Answered
Chosen Option : --

Q.8 The Central Government has decided to set up language centres to prepare study material and courses for each of the _____ languages in the eighth schedule of the Constitution.

- Ans
- ☐ 1. 12
 - ☐ 2. 19
 - ☒ 3. 22
 - ☐ 4. 32

Question ID : 630680226480
Option 1 ID : 630680878629
Option 2 ID : 630680878630
Option 3 ID : 630680878628
Option 4 ID : 630680878627
Status : Answered
Chosen Option : 3

Q.9 The Government of India notified the National Geospatial Policy 2022 in December last year as replacements for the _____ to strengthen the location-centric industry to assist with information economy.

- Ans
- ✓ 1. National Map Policy, 2005
 - ✗ 2. National Women Policy, 2016
 - ✗ 3. National Health Policy, 2017
 - ✗ 4. National Education Policy, 2020

Question ID : 630680226485
Option 1 ID : 630680878650
Option 2 ID : 630680878649
Option 3 ID : 630680878648
Option 4 ID : 630680878647
Status : Answered
Chosen Option : 1

Q.10 The Chinese Government has decided to block the popular search engine _____ in the country, citing concerns about propaganda and censorship.

- Ans
- ✗ 1. Baidu
 - ✗ 2. AOL.com
 - ✓ 3. ChatGPT
 - ✗ 4. Ecosia

Question ID : 630680226473
Option 1 ID : 630680878599
Option 2 ID : 630680878602
Option 3 ID : 630680878600
Option 4 ID : 630680878601
Status : Answered
Chosen Option : 3

Q.11 Olympic medallist _____ has been unanimously chosen as chairman of the Indian Olympic Association's (IOA) Athletes Commission in November 2022.

- Ans
- ✗ 1. Achanta Sharath Kamal
 - ✗ 2. Tejaswin Shankar
 - ✓ 3. Mary Kom
 - ✗ 4. Manika Batra

Question ID : 630680226478
Option 1 ID : 630680878621
Option 2 ID : 630680878620
Option 3 ID : 630680878619
Option 4 ID : 630680878622
Status : Answered
Chosen Option : 3

Q.12 New members joined the UNSC on 3 January 2023.Which of the following is NOT one of them?

- Ans
- ☒ 1. Japan
 - ☒ 2. Chile
 - ☒ 3. Ecuador
 - ☒ 4. Malta

Question ID : 630680226475
Option 1 ID : 630680878608
Option 2 ID : 630680878609
Option 3 ID : 630680878607
Option 4 ID : 630680878610
Status : Answered
Chosen Option : 4

Q.13 The Ministry of Culture’s flagship initiative, _____, has completed its first year during this year 2022-23.

- Ans
- ☒ 1. ‘Dhara: An Ode to Indian Knowledge Systems’
 - ☒ 2. ‘Jaltarang: An Ode to Indian Knowledge Systems’
 - ☒ 3. ‘Swara: An Ode to Indian Knowledge Systems’
 - ☒ 4. ‘Ganga: An Ode to Indian Knowledge Systems’

Question ID : 630680226498
Option 1 ID : 630680878699
Option 2 ID : 630680878701
Option 3 ID : 630680878702
Option 4 ID : 630680878700
Status : Answered
Chosen Option : 2

Q.14 In the first-ever SDG Gender Index, which measures progress made in achieving gender commitments against internationally set targets, India was ranked _____ out of a total 129 countries.

- Ans
- ☒ 1. 121st
 - ☒ 2. 85th
 - ☒ 3. 95th
 - ☒ 4. 110th

Question ID : 630680226497
Option 1 ID : 630680878697
Option 2 ID : 630680878695
Option 3 ID : 630680878696
Option 4 ID : 630680878698
Status : Answered
Chosen Option : 1

Q.15 Sethrichem Sangtam, who helped triple the incomes of 1200 marginalised farmers in Eastern _____, was awarded the first Rohini Nayyar prize for outstanding contribution to rural development.

- Ans
- ☒ 1. Sikkim
 - ☒ 2. Nagaland
 - ☒ 3. Assam
 - ☒ 4. Orissa

Question ID : 630680226488
Option 1 ID : 630680878662
Option 2 ID : 630680878660
Option 3 ID : 630680878661
Option 4 ID : 630680878659
Status : Answered
Chosen Option : 2

Q.16 India's Central Board of Indirect Taxes and Customs (CBIC) celebrated International Customs Day on _____ 2023, where the theme for this year, as given by the World Customs Nurturing the Next Generation: Promoting a Culture of Knowledge-sharing and Professional Pride in Customs' Organisation (WCO), was '

- Ans
- ☒ 1. 15 Feb
 - ☒ 2. 27 Jan
 - ☒ 3. 31 Jan
 - ☒ 4. 12 Feb

Question ID : 630680226493
Option 1 ID : 630680878682
Option 2 ID : 630680878681
Option 3 ID : 630680878680
Option 4 ID : 630680878679
Status : Not Answered
Chosen Option : --

Q.17 The International Monetary Fund recently unveiled a Crypto Action plan to safeguard monetary sovereignty in the world, which will help countries to frame their crypto policies in a _____-point action plan.

- Ans
- ☒ 1. 5
 - ☒ 2. 18
 - ☒ 3. 12
 - ☒ 4. 9

Question ID : 630680226484
Option 1 ID : 630680878645
Option 2 ID : 630680878646
Option 3 ID : 630680878643
Option 4 ID : 630680878644
Status : Answered
Chosen Option : 1

Q.18 _____ defeated South Africa in T20 Women's World Cup 2023 at Newlands in Cape Town.

- Ans
- ☒ 1. Bangladesh
 - ☒ 2. New Zealand
 - ☒ 3. Australia
 - ☒ 4. Sri Lanka

Question ID : 630680226476
Option 1 ID : 630680878614
Option 2 ID : 630680878612
Option 3 ID : 630680878611
Option 4 ID : 630680878613
Status : Answered
Chosen Option : 3

Q.19 The Calcutta high court on 29th September 2022 declared the _____ Scheme of the West Bengal government is ultra vires to the National Food Security Act, 2013 and is legally void.

- Ans
- ☒ 1. Ayushman Bharat
 - ☒ 2. Unnat Jeevan
 - ☒ 3. Duare Ration
 - ☒ 4. Grameen Kaushalya

Question ID : 630680226482
Option 1 ID : 630680878636
Option 2 ID : 630680878638
Option 3 ID : 630680878637
Option 4 ID : 630680878635
Status : Answered
Chosen Option : 3

Q.20 Fossils of the oldest known insect and the world's first plant pollinators called _____ were discovered recently in Russia in March 2023.

- Ans
- ☒ 1. Marigold
 - ☒ 2. Tillyardembiids
 - ☒ 3. Nasturtium
 - ☒ 4. Calendula

Question ID : 630680226491
Option 1 ID : 630680878672
Option 2 ID : 630680878673
Option 3 ID : 630680878671
Option 4 ID : 630680878674
Status : Answered
Chosen Option : 2

Q.21 The Prime Minister released the 13th instalment amount of more than ₹16,800 crore to more than _____ beneficiary farmers under the PM-KISAN at Belagavi, Karnataka in February 2023.

- Ans ☒ 1. 7 crore
☒ 2. 8 crore
☒ 3. 6 crore
☒ 4. 1 crore

Question ID : 630680226481
Option 1 ID : 630680878634
Option 2 ID : 630680878631
Option 3 ID : 630680878633
Option 4 ID : 630680878632
Status : Answered
Chosen Option : 2

Q.22 For the next fiscal year 2023-24, the Union Budget has pegged disinvestment revenue at ₹ _____ crore.

- Ans ☒ 1. 45,000
☒ 2. 51,000
☒ 3. 35,000
☒ 4. 25,000

Question ID : 630680226487
Option 1 ID : 630680878658
Option 2 ID : 630680878655
Option 3 ID : 630680878656
Option 4 ID : 630680878657
Status : Answered
Chosen Option : 1

Q.23 Prime Minister Narendra Modi recently inaugurated the Shivamogga airport in the state of Karnataka in Feb 2023. The airport was built at a cost of around ₹ _____ crore.

- Ans ☒ 1. 220
☒ 2. 300
☒ 3. 450
☒ 4. 150

Question ID : 630680226474
Option 1 ID : 630680878603
Option 2 ID : 630680878605
Option 3 ID : 630680878604
Option 4 ID : 630680878606
Status : Answered
Chosen Option : 3

Q.24 A tripartite peace agreement was recently signed between the Centre, Assam Government and _____ tribal groups of Assam in the presence of Union Home Minister Amit Shah in New Delhi.

- Ans
- ☒ 1. ten
 - ☒ 2. seven
 - ☒ 3. nine
 - ☒ 4. eight

Question ID : 630680226483
Option 1 ID : 630680878642
Option 2 ID : 630680878639
Option 3 ID : 630680878640
Option 4 ID : 630680878641
Status : Answered
Chosen Option : 3

Q.25 The Gujarat Forest Department, BCSG (Bird Conservation Society of Gujarat) and the Adams Nature Retreat Resort together organised a two-day bird survey in _____ in February 2023.

- Ans
- ☒ 1. Rajkot
 - ☒ 2. Dholera
 - ☒ 3. Jamnagar
 - ☒ 4. Dharoi

Question ID : 630680226490
Option 1 ID : 630680878667
Option 2 ID : 630680878670
Option 3 ID : 630680878668
Option 4 ID : 630680878669
Status : Answered
Chosen Option : 3

Q.26 Legendary sprinter _____ became the first woman president of the Indian Olympic Association (IOA) in the sports body's 95-year-long history on 10 December 2022.

- Ans
- ☒ 1. PT Usha
 - ☒ 2. Dutee Chand
 - ☒ 3. Dhanalakshmi
 - ☒ 4. Hima Das

Question ID : 630680226479
Option 1 ID : 630680878624
Option 2 ID : 630680878623
Option 3 ID : 630680878625
Option 4 ID : 630680878626
Status : Answered
Chosen Option : 1

Q.27 The jets _____ crashed near Morena's Pahargarh area after taking off from Gwalior air base in January 2023.

- Ans
- ☒ 1. Sukhoi-30 and Mirage 2000
 - ☐ 2. MiG-29 and SU-30
 - ☐ 3. Sukhoi-40 and Mirage 20
 - ☐ 4. SU-20 and MiG-39

Question ID : 630680226502
Option 1 ID : 630680878716
Option 2 ID : 630680878715
Option 3 ID : 630680878718
Option 4 ID : 630680878717
Status : Answered
Chosen Option : 2

Q.28 The Archaeological Survey of India recently discovered a 1300-year-old Buddhist stupa at Khondalite stone mining site in _____ during a mining operation.

- Ans
- ☐ 1. Bihar
 - ☒ 2. Odisha
 - ☐ 3. Uttar Pradesh
 - ☐ 4. Assam

Question ID : 630680226500
Option 1 ID : 630680878707
Option 2 ID : 630680878708
Option 3 ID : 630680878709
Option 4 ID : 630680878710
Status : Answered
Chosen Option : 2

Q.29 The International Day of Innocent Children Victims of Aggression will be observed on _____ to acknowledge the pain suffered by children throughout the world who are the victims of physical, mental and emotional abuse.

- Ans
- ☐ 1. 4 August
 - ☐ 2. 4 September
 - ☐ 3. 4 July
 - ☒ 4. 4 June

Question ID : 630680226496
Option 1 ID : 630680878693
Option 2 ID : 630680878694
Option 3 ID : 630680878691
Option 4 ID : 630680878692
Status : Not Answered
Chosen Option : --

Q.30 Scientists have recently discovered a new form of corrosion known as the _____ corrosion. This type of corrosion is characterised by a wormhole-like _____ morphology that can serve as a mass-flow pathway.

- Ans
- ☒ 1. 3D wormhole; 3D
 - ☐ 2. 1D wormhole; 1D
 - ☐ 3. 4D wormhole; 4D
 - ☐ 4. 2D wormhole; 2D

Question ID : 630680226494
Option 1 ID : 630680878685
Option 2 ID : 630680878684
Option 3 ID : 630680878686
Option 4 ID : 630680878683
Status : Answered
Chosen Option : 4

Section : Reasoning

Q.1 A certain number of people are sitting in a row facing north. There are three persons sitting between K and L. M is sitting second from one of the extreme ends. Four persons are sitting between L and P. There are more than three persons between M and P. P is sitting fourth from the left end. K is not sitting third to the right of P. Only three persons are between K and M. O is sitting exactly between K and L. R is sitting second to the left of P. Only two persons are sitting between L and S.

How many persons are sitting in the row?

- Ans
- ☒ 1. 19
 - ☐ 2. 20
 - ☐ 3. 21
 - ☐ 4. 18

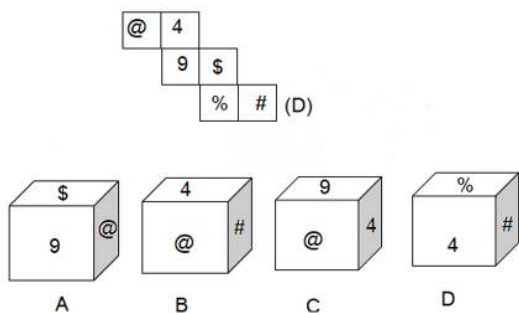
Question ID : 630680226509
Option 1 ID : 630680878746
Option 2 ID : 630680878743
Option 3 ID : 630680878745
Option 4 ID : 630680878744
Status : Not Answered
Chosen Option : --

Q.2 In a certain code language, 'QUICK' is coded as 'OSSWGKAEIM' and 'WORLD' is coded as 'UYMQPTJNBF'. How will 'SLICE' be coded in that language?

- Ans
- ☒ 1. SYWLQALPSC
 - ☐ 2. UWKMGRBAJK
 - ☐ 3. QUJNGKAECG
 - ☐ 4. CGAENKGIUQ

Question ID : 630680226517
Option 1 ID : 630680878775
Option 2 ID : 630680878778
Option 3 ID : 630680878776
Option 4 ID : 630680878777
Status : Answered
Chosen Option : 3

Q.3 Select the box/boxes that can be formed by folding the given sheet (Figure D) along the lines.



- Ans
- ☒ 1. Only A
 - ☒ 2. Only B and C
 - ☒ 3. Only C and D
 - ☒ 4. Only B

Question ID : 630680226529
Option 1 ID : 630680878823
Option 2 ID : 630680878824
Option 3 ID : 630680878825
Option 4 ID : 630680878826
Status : Answered
Chosen Option : 2

Q.4 Select the option that is related to the third term in the same way as the second term is related to the first term.

X784K : N324A :: T169V : ?

- Ans
- ☒ 1. J9L
 - ☒ 2. W49P
 - ☒ 3. F81R
 - ☒ 4. L23Y

Question ID : 630680226518
Option 1 ID : 630680878780
Option 2 ID : 630680878782
Option 3 ID : 630680878779
Option 4 ID : 630680878781
Status : Answered
Chosen Option : 1

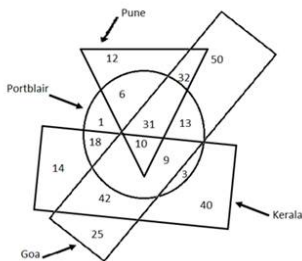
Q.5 Select the number pairs from among the given options that can replace the question marks (?) in the following series sequentially.

9, 4, 57, 16, 153, ?, 297, 76, ?, 124

- Ans**
- ☒ 1. 67, 386
 - ☒ 2. 40, 489
 - ☒ 3. 48, 654
 - ☒ 4. 53, 723

Question ID : 630680226531
Option 1 ID : 630680878831
Option 2 ID : 630680878832
Option 3 ID : 630680878834
Option 4 ID : 630680878833
Status : Not Answered
Chosen Option : --

Q.6 In the Venn diagram given below, different shapes represent different places where students of a college want to go for an educational trip. What is the ratio of students who like to go to Kerala, Port Blair and Goa and students who like to go Pune and Goa?



- Ans**
- ☒ 1. 9 : 32
 - ☒ 2. 8 : 67
 - ☒ 3. 11 : 76
 - ☒ 4. 9 : 48

Question ID : 630680226511
Option 1 ID : 630680878752
Option 2 ID : 630680878751
Option 3 ID : 630680878754
Option 4 ID : 630680878753
Status : Not Answered
Chosen Option : --

Q.7 In a row of girls, Shilpa is 14th from the left end, whereas Aarti is 10th from the right end. If Revati is sitting exactly between Shilpa and Aarti and holds the 15th rank from the right end, then find the rank of Revati from the left end?

- Ans**
- ☒ 1. 18
 - ☒ 2. 19
 - ☒ 3. 22
 - ☒ 4. 20

Question ID : 630680226506
Option 1 ID : 630680878734
Option 2 ID : 630680878732
Option 3 ID : 630680878733
Option 4 ID : 630680878731
Status : Answered
Chosen Option : 2

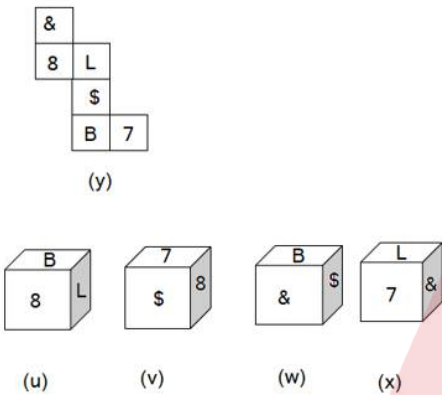
Q.8 Select the number from among the given options that can replace the question mark (?) in the following series.

3, 12, 156, ?

- Ans ☒ 1. 24492
☐ 2. 25697
☐ 3. 16240
☐ 4. 13453

Question ID : 630680226530
Option 1 ID : 630680878827
Option 2 ID : 630680878829
Option 3 ID : 630680878830
Option 4 ID : 630680878828
Status : Answered
Chosen Option : 1

Q.9 Select the box/boxes that can be formed by folding the given sheet (Figure Y) along the lines.



- Ans ☐ 1. Only v and w
☐ 2. Only w
☒ 3. Only x
☐ 4. Only u and x

Question ID : 630680226528
Option 1 ID : 630680878820
Option 2 ID : 630680878822
Option 3 ID : 630680878819
Option 4 ID : 630680878821
Status : Answered
Chosen Option : 3

Q.10 Select the term from among the given options that can replace the question mark (?) in the following series.

W324X, T361S, ?, N441I, K484D

- Ans
- ☒ 1. P484V
 - ☒ 2. I629R
 - ☒ 3. Q400N
 - ☒ 4. F534K

Question ID : 630680226513
Option 1 ID : 630680878762
Option 2 ID : 630680878759
Option 3 ID : 630680878760
Option 4 ID : 630680878761
Status : Answered
Chosen Option : 3

Q.11 Select the option that is related to the third term in the same way as the second term is related to the first term.

D196R : S169C :: J289W : ?

- Ans
- ☒ 1. N455Z
 - ☒ 2. Y256H
 - ☒ 3. P729E
 - ☒ 4. K629G

Question ID : 630680226519
Option 1 ID : 630680878784
Option 2 ID : 630680878785
Option 3 ID : 630680878786
Option 4 ID : 630680878783
Status : Answered
Chosen Option : 2

Q.12 Choose the correct water image of the given figure from the given four figures.

withdraw
M  N

- (1) MifNbram
- (2) MnlqNfM
- (3) Mifhqlam
- (4) MifNqlam

Ans ☒ 1. 3
☒ 2. 4
☒ 3. 1
☒ 4. 2

Question ID : 630680226527

Option 1 ID : 630680878816

Option 2 ID : 630680878817

Option 3 ID : 630680878818

Option 4 ID : 630680878815

Status : Answered

Chosen Option : 2

Q.13 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

Ans ☒ 1. IAC
☒ 2. BVK
☒ 3. GOB
☒ 4. FXD

Question ID : 630680226521

Option 1 ID : 630680878792

Option 2 ID : 630680878791

Option 3 ID : 630680878794

Option 4 ID : 630680878793

Status : Answered

Chosen Option : 1

Q.14 Eight persons, Rishi, Anita, Rima, Babita, Shivani, Charu, Gogi and Tarun, are living in an eight-storey building where the lowermost floor is numbered 1, the floor just above it is numbered as 2 and so on. Only one person lives on one floor. Only one person lives between the floors of Tarun and Rima, who lives on any floor below the floor of Charu. Shivani lives immediately above Gogi's floor. Tarun lives on the third floor. Only one person lives between the floors of Charu and Babita. Charu lives above Babita. Only two persons live between Tarun and Rishi's floors.

Who lives on the 5th floor?

- Ans**
- ☒ 1. Shivani
 - ☒ 2. Anita
 - ☒ 3. Gogi
 - ☒ 4. Rima

Question ID : 630680226508
Option 1 ID : 630680878741
Option 2 ID : 630680878742
Option 3 ID : 630680878739
Option 4 ID : 630680878740
Status : Not Answered
Chosen Option : --

Q.15 There are seven persons P, Q, R, S, T, U and V. Each of them has different heights. R is taller than only V. The number of persons shorter than Q is equal to the number of persons taller than S. Neither P nor T is the tallest. Who among the following is the tallest?

- Ans**
- ☒ 1. U
 - ☒ 2. R
 - ☒ 3. V
 - ☒ 4. Q

Question ID : 630680226512
Option 1 ID : 630680878755
Option 2 ID : 630680878757
Option 3 ID : 630680878758
Option 4 ID : 630680878756
Status : Answered
Chosen Option : 4

Q.16 Pratham goes 6 m towards south from his college and then he turns to his left and walks 8 m. How far and in which direction is he now from his college?

- Ans**
- ☒ 1. 10 m and south-east
 - ☒ 2. 14 m and north-west
 - ☒ 3. 8 m and north-east
 - ☒ 4. 12 m and south-east

Question ID : 630680226516
Option 1 ID : 630680878771
Option 2 ID : 630680878774
Option 3 ID : 630680878772
Option 4 ID : 630680878773
Status : Answered
Chosen Option : 1

Q.17 Eight persons, A, C, P, M, R, Y, T and Z, are sitting around a square table in such a way that four of them are sitting in the middle of the sides facing the centre, while four of them are sitting at the four corners facing outside the centre. A is sitting 2nd to the right of C. P is sitting 2nd to the left of M. R is sitting 3rd to the right of Y. R is facing outside. T is sitting 3rd to the right of C. R is not an immediate neighbour of M.

Which of the following statements is FALSE?

- Ans**
- ✗ 1. P is the immediate neighbour of C.
 - ✗ 2. T is 2nd to the right of M.
 - ✗ 3. A is the immediate neighbour of R.
 - ✓ 4. Two people are sitting between A and C.

Question ID : 630680226504
Option 1 ID : 630680878723
Option 2 ID : 630680878724
Option 3 ID : 630680878726
Option 4 ID : 630680878725
Status : Not Answered
Chosen Option : --

Q.18 In a certain code language, COW is written as 9-45-69 and BIRD is written as 8-36-72-16. How will WHALE be written in that language?

- Ans**
- ✗ 1. 69-40-5-60-25
 - ✓ 2. 115-40-5-60-25
 - ✗ 3. 115-40-5-60-30
 - ✗ 4. 115-24-5-60-25

Question ID : 630680226532
Option 1 ID : 630680878837
Option 2 ID : 630680878836
Option 3 ID : 630680878835
Option 4 ID : 630680878838
Status : Answered
Chosen Option : 2

Q.19 Four word pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.

- Ans**
- ✗ 1. Oncology - Cancer
 - ✗ 2. Psychology - Human behaviour
 - ✗ 3. Entomology - Insects
 - ✓ 4. Zoology - Plants

Question ID : 630680226522
Option 1 ID : 630680878797
Option 2 ID : 630680878795
Option 3 ID : 630680878796
Option 4 ID : 630680878798
Status : Answered
Chosen Option : 4

Q.20 Eight people, Sarika, Nisha, Chirag, Deepak, Ayesha, Rekha, Garima and Hina, are seated around a circular table at equal distance but not in the same order, and all are facing the centre of the table such that Sarika is opposite to Nisha, who is to the immediate left of Rekha. Rekha is 3rd to the right of Chirag, who is opposite to Ayesha. Garima is 2nd to the right of Hina, who is opposite to Rekha.

How many people are between Ayesha and Hina when counted from the left of Hina?

- Ans**
- ☒ 1. 1
 - ☒ 2. 4
 - ☒ 3. 2
 - ☒ 4. 3

Question ID : 630680226503
Option 1 ID : 630680878720
Option 2 ID : 630680878719
Option 3 ID : 630680878722
Option 4 ID : 630680878721
Status : Not Answered
Chosen Option : --

Q.21 Radhika walks 10 km towards the east and then turns left and walks 20 km. She turns right and walks 15 km and then turns left and walks 5 km and again turns left and walks 30 km. Again she turns left and walks 10 km. In which direction is she now with respect to her starting point?

- Ans**
- ☒ 1. South-west
 - ☒ 2. North-east
 - ☒ 3. East
 - ☒ 4. North-west

Question ID : 630680226523
Option 1 ID : 630680878801
Option 2 ID : 630680878802
Option 3 ID : 630680878799
Option 4 ID : 630680878800
Status : Answered
Chosen Option : 4

Q.22 Select the option that is related to the third term in the same way as the second term is related to the first term.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/consonants/vowels in the word.)

Soprano : Opera :: Mime : ?

- Ans**
- ☒ 1. Dance
 - ☒ 2. Cricket
 - ☒ 3. Music
 - ☒ 4. Drama

Question ID : 630680226520
Option 1 ID : 630680878788
Option 2 ID : 630680878787
Option 3 ID : 630680878789
Option 4 ID : 630680878790
Status : Not Answered
Chosen Option : --

Q.23 Select the term from among the given options that can replace the question mark (?) in the following series.

IK17, LP26, ?, RO67

- Ans
- ✗ 1. VS35
 - ✓ 2. OL42
 - ✗ 3. ME49
 - ✗ 4. KW56

Question ID : 630680226514
Option 1 ID : 630680878763
Option 2 ID : 630680878766
Option 3 ID : 630680878764
Option 4 ID : 630680878765
Status : Not Answered
Chosen Option : --

Q.24 Ten friends, P, Q, R, S, T, U, V, W, X and Y, are seated in a row at equal distance but not necessarily in the same order; all are facing south such that

S is to the immediate right of one who is third to the left of R.

Y is fourth to the right of R.

There are only two people between T and U.

P is not sitting with either R or S.

T is to the immediate left of W, who is at an extreme end.

X is to the immediate right of the one who is third to the left of Q.

Who is sitting between P and R?

- Ans
- ✗ 1. T and Y
 - ✓ 2. U and Q
 - ✗ 3. U and X
 - ✗ 4. S and V

Question ID : 630680226505
Option 1 ID : 630680878729
Option 2 ID : 630680878730
Option 3 ID : 630680878727
Option 4 ID : 630680878728
Status : Not Answered
Chosen Option : --

Q.25 A group of numbers and symbols is coded using letter codes as per the codes given below and the conditions that follow. Study the given codes and conditions and answer the question that follows.

Codes	P	Y	N	R	U	B	X
Numbers/symbols	2	?	5	#	3	8	0

Conditions:

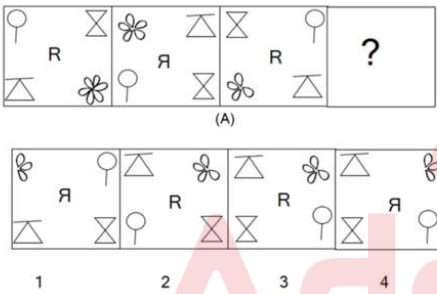
- i) If first and last elements are consonants, then the last element is to be coded as the code used for the 4th element.
- ii) If the group of elements contains any vowel, then the vowel is to be coded as the code used for the first element.
- iii) If the last element is a vowel, then it is to be coded as 1.

Decode 'BYPRUN'.

- Ans
- ☒ 1. 5#2#8?
 - ☒ 2. 03?28#
 - ☒ 3. 8?2#8#
 - ☒ 4. ?3#2#?

Question ID : 630680226515
Option 1 ID : 630680878767
Option 2 ID : 630680878769
Option 3 ID : 630680878768
Option 4 ID : 630680878770
Status : Not Answered
Chosen Option : --

Q.26 Select the figure from among the given options that can replace the question mark (?) in the following series (A).



- Ans
- ☒ 1. 2
 - ☒ 2. 3
 - ☒ 3. 1
 - ☒ 4. 4

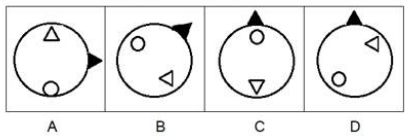
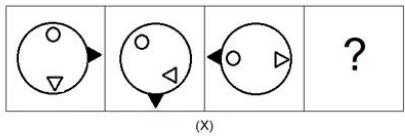
Question ID : 630680226525
Option 1 ID : 630680878807
Option 2 ID : 630680878810
Option 3 ID : 630680878808
Option 4 ID : 630680878809
Status : Answered
Chosen Option : 4

Q.27 R is 8 ranks ahead of S, who ranks 20th in a class of 50 students. What is R's rank from the last?

- Ans
- ✗ 1. 45
 - ✓ 2. 39
 - ✗ 3. 36
 - ✗ 4. 29

Question ID : 630680226507
Option 1 ID : 630680878735
Option 2 ID : 630680878736
Option 3 ID : 630680878738
Option 4 ID : 630680878737
Status : Answered
Chosen Option : 4

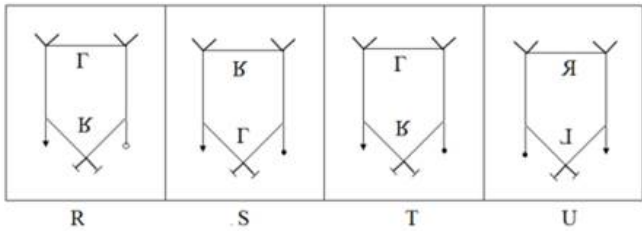
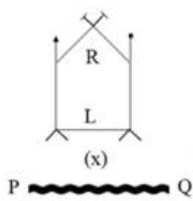
Q.28 Select the figure from among the given options that can replace the question mark (?) in the following series (X).



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

Question ID : 630680226524
Option 1 ID : 630680878804
Option 2 ID : 630680878803
Option 3 ID : 630680878806
Option 4 ID : 630680878805
Status : Answered
Chosen Option : 4

Q.29 Choose the correct water image of the given figure from the given four figures.



- Ans
- ✓ 1. T
 - ✗ 2. R
 - ✗ 3. S
 - ✗ 4. U

Question ID : 630680226526
Option 1 ID : 630680878812
Option 2 ID : 630680878814
Option 3 ID : 630680878813
Option 4 ID : 630680878811
Status : Answered
Chosen Option : 1

Q.30 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

- A. All towels are fabric.
- B. Some fabric is cotton.
- C. Some towels are paper.

Conclusions:

- I. All cotton is fabric.
- II. Some papers are towels.
- III. All fabric is towel.

- Ans
- ✗ 1. Only conclusion I follows.
 - ✓ 2. Only conclusion II follows.
 - ✗ 3. Only conclusion III follows.
 - ✗ 4. Only conclusions I and II follow.

Question ID : 630680226510
Option 1 ID : 630680878748
Option 2 ID : 630680878749
Option 3 ID : 630680878750
Option 4 ID : 630680878747
Status : Answered
Chosen Option : 2

Q.1 The kernel of a linear transformation $T: \mathbb{R}^p \rightarrow \mathbb{R}^q$ is a subspace of:

- Ans
- ☒ 1. $\mathbb{R}^{pq}$
 - ☒ 2. $\mathbb{R}^{p+q}$
 - ☒ 3. $\mathbb{R}^q$
 - ☒ 4. $\mathbb{R}^p$

Question ID : 630680226757
Option 1 ID : 630680879735
Option 2 ID : 630680879736
Option 3 ID : 630680879737
Option 4 ID : 630680879738
Status : Not Answered
Chosen Option : --

Q.2 If the ratio of the mode and median of a distribution is 6:5, then what is the ratio of its mean and median?

- Ans
- ☒ 1. 8 : 9
 - ☒ 2. 9 : 10
 - ☒ 3. 8 : 11
 - ☒ 4. 9 : 7

Question ID : 630680226796
Option 1 ID : 630680879891
Option 2 ID : 630680879892
Option 3 ID : 630680879894
Option 4 ID : 630680879893
Status : Answered
Chosen Option : 2

Q.3 If the lines given by $3x + 2ky = 2$ and $2x + 5y + 1 = 0$ are parallel, then the value of k will be:

- Ans
- ☒ 1. $\frac{2}{5}$
 - ☒ 2. $\frac{15}{4}$
 - ☒ 3. $\frac{3}{2}$
 - ☒ 4. $\frac{-5}{4}$

Question ID : 630680226816
Option 1 ID : 630680879972
Option 2 ID : 630680879973
Option 3 ID : 630680879974
Option 4 ID : 630680879971
Status : Answered
Chosen Option : 2

Q.4 Consider the real vector space R^3 . By which of the following will the subspace $\{(x, y, z) \in R^3 : y = x\}$ of R^3 be generated?

- Ans
- ☒ 1. $\{(1, 1, 0), (1, 0, 0)\}$
 - ☒ 2. $\{(1, 1, 0), (0, 0, 1)\}$
 - ☒ 3. $\{(1, 0, 1), (0, 0, 1)\}$
 - ☒ 4. $\{(1, 0, 0), (0, 1, 0)\}$

Question ID : 630680226810
Option 1 ID : 630680879948
Option 2 ID : 630680879947
Option 3 ID : 630680879950
Option 4 ID : 630680879949
Status : Not Answered
Chosen Option : --

Q.5 A clear statement of what successful students will be able to do at the end of a course is known as ____.

- Ans
- ☒ 1. home-work
 - ☒ 2. conclusion
 - ☒ 3. course description
 - ☒ 4. learning outcome

Question ID : 630680226847
Option 1 ID : 630680880098
Option 2 ID : 630680880097
Option 3 ID : 630680880096
Option 4 ID : 630680880095
Status : Answered
Chosen Option : 4

Q.6 The frustum of a right circular cone has the diameter of the base 10cm, diameter of the top 6cm and height 5cm. Find the slant height of the frustum.

- Ans
- ☒ 1. $\sqrt{13}$ cm
 - ☒ 2. $\sqrt{29}$ cm
 - ☒ 3. $4\sqrt{3}$ cm
 - ☒ 4. $3\sqrt{3}$ cm

Question ID : 630680226793
Option 1 ID : 630680879881
Option 2 ID : 630680879879
Option 3 ID : 630680879882
Option 4 ID : 630680879880
Status : Not Answered
Chosen Option : --

Q.7 Which of the following is NOT one of the principles of creating an assessment?

- Ans
- ☒ 1. The nomenclature of the test should be normal.
 - ☒ 2. The test should be reliable and valid.
 - ☒ 3. The level of the questions should be difficult.
 - ☒ 4. The construction of the test should be comprehensive.

Question ID : 630680226764
Option 1 ID : 630680879765
Option 2 ID : 630680879766
Option 3 ID : 630680879763
Option 4 ID : 630680879764
Status : Answered
Chosen Option : 3

Q.8 The standard deviation and arithmetic mean of the distribution are 12 and 45.5, respectively. The coefficient of variation of the distribution is:

- Ans
- ☒ 1. 22.15
 - ☒ 2. 26.37
 - ☒ 3. 32.43
 - ☒ 4. 12.11

Question ID : 630680226762
Option 1 ID : 630680879758
Option 2 ID : 630680879755
Option 3 ID : 630680879757
Option 4 ID : 630680879756
Status : Not Answered
Chosen Option : --

Q.9 If the roots of the quadratic equation $x^2 + px + q = 0$ are $\tan 30^\circ$ and $\tan 15^\circ$, respectively, then the value of $2 + q - p$ is:

- Ans
- ☒ 1. 2
 - ☒ 2. 3
 - ☒ 3. 1
 - ☒ 4. 0

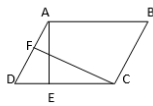
Question ID : 630680226784
Option 1 ID : 630680879843
Option 2 ID : 630680879844
Option 3 ID : 630680879846
Option 4 ID : 630680879845
Status : Not Answered
Chosen Option : --

Q.10 Which of the following options is NOT the responsibility of a teacher in problem solving method?

- Ans ☒ 1. To define the problem clearly
- ☒ 2. To formulate concise statement of the net outcome of discussion
- ☒ 3. To build an outline on the board
- ☒ 4. To collect data

Question ID : 630680226841
Option 1 ID : 630680880073
Option 2 ID : 630680880072
Option 3 ID : 630680880074
Option 4 ID : 630680880071
Status : Answered
Chosen Option : 4

Q.11 ABCD is a parallelogram as shown in the following figure. $AE \perp DC$ and $CF \perp AD$. If $AB = 16\text{ cm}$, $AE = 8\text{ cm}$ and $CF = 10\text{ cm}$, then $AD = ?$



- Ans ☒ 1. 16 cm
- ☒ 2. 12.8 cm
- ☒ 3. 8 cm
- ☒ 4. 10 cm

Question ID : 630680226836
Option 1 ID : 630680880051
Option 2 ID : 630680880052
Option 3 ID : 630680880053
Option 4 ID : 630680880054
Status : Answered
Chosen Option : 2

Q.12 Select the correct option for the two statements given below.

- 1) The cost of 100 bags is rupees 30.
We can write: $100\text{ bags} = ₹30$
- 2) A box is half opened is half closed.
We can write: $\text{Box opened} = \text{box closed}$

- Ans ☒ 1. Both statements are logically correct
- ☒ 2. Statement (1) is correct but statement (2) is incorrect.
- ☒ 3. Statement (2) is correct but statement (1) is incorrect.
- ☒ 4. Both statements are logically incorrect

Question ID : 630680226849
Option 1 ID : 630680880103
Option 2 ID : 630680880105
Option 3 ID : 630680880106
Option 4 ID : 630680880104
Status : Answered
Chosen Option : 2

Q.13 Consider the linear transformation $T: \mathbb{R}^4 \rightarrow \mathbb{R}^4$ defined by $T(x, y, z, w) = (-x, y, -z, 0), (x, y, z, w) \in \mathbb{R}^4$. If nullity and rank of T are n and r , respectively, then which of the following is correct?

- Ans
- ☒ 1. $r = 1, n = 3$
 - ☒ 2. $r = n = 3$
 - ☒ 3. $r = n = 2$
 - ☒ 4. $r = 3, n = 1$

Question ID : 630680226758

Option 1 ID : 630680879741

Option 2 ID : 630680879740

Option 3 ID : 630680879739

Option 4 ID : 630680879742

Status : Not Answered

Chosen Option : --

Q.14 The maximum sum of the series $20 + 19\frac{1}{3} + 18\frac{2}{3} + 18 + \dots$ is:

- Ans
- ☒ 1. 300
 - ☒ 2. 320
 - ☒ 3. 290
 - ☒ 4. 310

Question ID : 630680226789

Option 1 ID : 630680879866

Option 2 ID : 630680879865

Option 3 ID : 630680879864

Option 4 ID : 630680879863

Status : Not Answered

Chosen Option : --

Q.15 If $A = \sqrt[3]{6} - \sqrt[3]{5}$, $B = \sqrt[3]{6} + \sqrt[3]{5}$, $C = \sqrt[3]{6} - \sqrt[3]{5}$, $D = \sqrt[3]{6} + \sqrt[3]{5}$, and $E = \sqrt{6} + \sqrt{5}$, then which of the following is a rational number?

- Ans
- ☒ 1. CD
 - ☒ 2. ABDE
 - ☒ 3. AB
 - ☒ 4. ABCDE

Question ID : 630680226828

Option 1 ID : 630680880022

Option 2 ID : 630680880020

Option 3 ID : 630680880021

Option 4 ID : 630680880019

Status : Not Answered

Chosen Option : --

Q.16 The value of $\frac{(1.5)^3 + (4.7)^3 + (3.8)^3 - 3 \times 1.5 \times 4.7 \times 3.8}{(1.5)^2 + (4.7)^2 + (3.8)^2 - (1.5 \times 4.7) - (4.7 \times 3.8) - (1.5 \times 3.8)}$ is:

- Ans
- ☐ 1. 8
 - ☐ 2. 11
 - ☒ 3. 10
 - ☐ 4. 9

Question ID : 630680226825

Option 1 ID : 630680880007

Option 2 ID : 630680880010

Option 3 ID : 630680880009

Option 4 ID : 630680880008

Status : Answered

Chosen Option : 3

Q.17 If a, b and c are distinct positive real numbers, then:

- Ans
- ☐ 1. $a^2 + b^2 + c^2 \geq ab + bc + ca$
 - ☐ 2. $a^2 + b^2 + c^2 < ab + bc + ca$
 - ☒ 3. $a^2 + b^2 + c^2 > ab + bc + ca$
 - ☐ 4. $a^2 + b^2 + c^2 \leq ab + bc + ca$

Question ID : 630680226806

Option 1 ID : 630680879933

Option 2 ID : 630680879932

Option 3 ID : 630680879931

Option 4 ID : 630680879934

Status : Answered

Chosen Option : 3

Q.18 If $\int \frac{\sin^4 x}{\cos^8 x} dx = a \tan^7 x + b \tan^5 x + c$, then:

- Ans
- ☐ 1. $7a + 5b = 0$
 - ☐ 2. $5a = 7b$
 - ☐ 3. $5a + 7b = 0$
 - ☒ 4. $7a = 5b$

Question ID : 630680226782

Option 1 ID : 630680879837

Option 2 ID : 630680879836

Option 3 ID : 630680879838

Option 4 ID : 630680879835

Status : Answered

Chosen Option : 1

Q.19 Which of the following is NOT a principle for setting up a mathematics laboratory?

- Ans
- ☒ 1. Developing scientific attitude
 - ☒ 2. Teacher centred
 - ☒ 3. Developing self-confidence
 - ☒ 4. Learning by doing

Question ID : 630680226843
Option 1 ID : 630680880082
Option 2 ID : 630680880081
Option 3 ID : 630680880080
Option 4 ID : 630680880079
Status : Answered
Chosen Option : 2

Q.20 The equation of a straight line passing through the point of intersection of $x - y + 1 = 0$ and $3x + y - 5 = 0$, which are perpendicular to one of them, is:

- Ans
- ☒ 1. $x + y + 3 = 0$
 - ☒ 2. $x - 3y + 5 = 0$
 - ☒ 3. $x - 3y - 5 = 0$
 - ☒ 4. $x - y + 3 = 0$

Question ID : 630680226821
Option 1 ID : 630680879991
Option 2 ID : 630680879994
Option 3 ID : 630680879993
Option 4 ID : 630680879992
Status : Not Answered
Chosen Option : --

Q.21 The minimum value of the sum of real numbers $a^{-5}, a^{-4}, 3a^{-3}, 1, a^8$ and a^{10} , with $a > 0$, is:

- Ans
- ☒ 1. 6
 - ☒ 2. 9
 - ☒ 3. 7
 - ☒ 4. 8

Question ID : 630680226807
Option 1 ID : 630680879935
Option 2 ID : 630680879938
Option 3 ID : 630680879936
Option 4 ID : 630680879937
Status : Answered
Chosen Option : 3

Q.22 Let α and β be the roots of the equation $px^2 + qx + r = 0, p \neq 0$. If (p, q, r) are in AP and $\frac{1}{\alpha} + \frac{1}{\beta} = 4$, then the value of $|\alpha - \beta|$ is:

Ans

✗ 1. $\frac{2\sqrt{17}}{9}$

✓ 2. $\frac{2\sqrt{13}}{9}$

✗ 3. $\frac{\sqrt{34}}{9}$

✗ 4. $\frac{\sqrt{61}}{9}$

Question ID : 630680226786

Option 1 ID : 630680879852

Option 2 ID : 630680879854

Option 3 ID : 630680879853

Option 4 ID : 630680879851

Status : Not Answered

Chosen Option : --

Q.23 If a and b are positive real numbers such that $ab = 1$, then the least value of the expression $(1+a)(1+b)$ will be:

Ans ✗ 1. 6

✗ 2. 2

✓ 3. 4

✗ 4. 3

Question ID : 630680226805

Option 1 ID : 630680879930

Option 2 ID : 630680879927

Option 3 ID : 630680879929

Option 4 ID : 630680879928

Status : Answered

Chosen Option : 4

Q.24 In teaching mathematics, ICT covers _____.

Ans ✓ 1. calculator, spreadsheet, and advanced geometrical software

✗ 2. calculator

✗ 3. spreadsheet

✗ 4. advanced geometrical software

Question ID : 630680226766

Option 1 ID : 630680879774

Option 2 ID : 630680879771

Option 3 ID : 630680879772

Option 4 ID : 630680879773

Status : Answered

Chosen Option : 1

Q.25 If the roots of the quadratic equation $x^2 - 4x - \log_3 a = 0$ are real, then the least value of a is:

Ans

✗ 1. $\frac{1}{64}$

✓ 2. $\frac{1}{81}$

✗ 3. 81

✗ 4. 64

Question ID : 630680226787

Option 1 ID : 630680879857

Option 2 ID : 630680879856

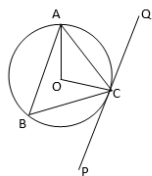
Option 3 ID : 630680879855

Option 4 ID : 630680879858

Status : Not Answered

Chosen Option : --

Q.26 In the given figure, O is the centre of the circle. If $\angle OAC = 30^\circ$, the acute angle between AC and the tangent PQ at C is:



Ans

✗ 1. 90°

✗ 2. 45°

✗ 3. 30°

✓ 4. 60°

Question ID : 630680226834

Option 1 ID : 630680880046

Option 2 ID : 630680880044

Option 3 ID : 630680880043

Option 4 ID : 630680880045

Status : Answered

Chosen Option : 4

Q.27 Upon dividing $x^3 - 3x^2 + x + 2$ by a polynomial $g(x)$, the quotient and the remainder obtained are $(x - 2)$ and $(-2x + 4)$, respectively. Find $g(x)$.

Ans

✗ 1. $x^2 - x - 1$

✗ 2. $x^2 + x - 2$

✓ 3. $x^2 - x + 1$

✗ 4. $x^2 - x + 2$

Question ID : 630680226804

Option 1 ID : 630680879924

Option 2 ID : 630680879926

Option 3 ID : 630680879923

Option 4 ID : 630680879925

Status : Answered

Chosen Option : 3

Q.28 The fraction of the recurring decimal $0.\overline{32} + 0.2\overline{6} - 0.\overline{53}$ is :

- Ans
- ✓ 1. $\frac{27}{495}$
 - ✗ 2. $\frac{53}{495}$
 - ✗ 3. $\frac{27}{990}$
 - ✗ 4. $\frac{54}{495}$

Question ID : 630680226754
Option 1 ID : 630680879726
Option 2 ID : 630680879724
Option 3 ID : 630680879723
Option 4 ID : 630680879725
Status : Answered
Chosen Option : 4

Q.29 If the system of equations $x - 2y - 3z = 1$, $(p + 2)z = 3$ and $(2p + 1)y + z = 2$ is inconsistent, then what will be the value of p ?

- Ans
- ✗ 1. 0
 - ✓ 2. $-\frac{1}{2}$
 - ✗ 3. 2
 - ✗ 4. -2

Question ID : 630680226811
Option 1 ID : 630680879953
Option 2 ID : 630680879952
Option 3 ID : 630680879954
Option 4 ID : 630680879951
Status : Not Answered
Chosen Option : --

Q.30 Which of the following is a road map or a guideline prepared by a teacher to present a particular lesson?

- Ans
- ✗ 1. Weekly lesson plan
 - ✗ 2. Yearly lesson plan
 - ✓ 3. Daily lesson plan
 - ✗ 4. Unit plan

Question ID : 630680226846
Option 1 ID : 630680880092
Option 2 ID : 630680880093
Option 3 ID : 630680880091
Option 4 ID : 630680880094
Status : Answered
Chosen Option : 3

Q.31 If $n > 1$ is a positive integer, then

Ans

✓ 1. $n(n+1)^2 > 4(n!)^{\frac{3}{n}}$

✗ 2. $n(n+1)^2 > 4(n!)^{\frac{4}{n}}$

✗ 3. $n(n+1)^2 < 4(n!)^{\frac{3}{n}}$

✗ 4. $n(n+1)^2 < 4(n!)^{\frac{2}{n}}$

Question ID : 630680226760

Option 1 ID : 630680879747

Option 2 ID : 630680879749

Option 3 ID : 630680879748

Option 4 ID : 630680879750

Status : Not Answered

Chosen Option : --

Q.32 If a variable takes discrete values as $x + 4, x - \frac{7}{2}, x - \frac{5}{2}, x - 3, x - 2, x + \frac{1}{2}, x - \frac{1}{2}, x + 5, (x > 0)$, then the median is:

Ans

✗ 1. $x - \frac{1}{2}$

✓ 2. $x - \frac{5}{4}$

✗ 3. $x + \frac{5}{4}$

✗ 4. $x - 2$

Question ID : 630680226797

Option 1 ID : 630680879896

Option 2 ID : 630680879895

Option 3 ID : 630680879898

Option 4 ID : 630680879897

Status : Not Answered

Chosen Option : --

Q.33 The pair of the linear equations $kx + 2y = 5$ and $3x + y = 1$ has a unique solution if:

Ans

✗ 1. $k = 0$

✓ 2. $k \neq 6$

✗ 3. k has any value

✗ 4. $k = 6$

Question ID : 630680226815

Option 1 ID : 630680879969

Option 2 ID : 630680879968

Option 3 ID : 630680879970

Option 4 ID : 630680879967

Status : Answered

Chosen Option : 2

Q.34 Which of the following is Euclid's Postulate 4?

- A) A circle can be drawn with any centre and any radius.
B) All right angles are equal to one another.
C) A straight line may be drawn from any one point to any other point.
D) A terminated line (that is, a line segment) can be produced indefinitely on either side.

Ans ☒ 1. D

☒ 2. B

☒ 3. A

☒ 4. C

Question ID : 630680226833

Option 1 ID : 630680880042

Option 2 ID : 630680880040

Option 3 ID : 630680880039

Option 4 ID : 630680880041

Status : Not Answered

Chosen Option : --

Q.35 Let T_r be the r^{th} term of an AP, where the first term is a and the common difference is d . If, for some positive integers, $m \neq n$, $T_m = \frac{1}{n}$ and $T_n = \frac{1}{m}$, then $a - d$ is equal to:

Ans ☒ 1. $\frac{1}{m} + \frac{1}{n}$

☒ 2. $\frac{1}{mn}$

☒ 3. 0

☒ 4. 1

Question ID : 630680226790

Option 1 ID : 630680879870

Option 2 ID : 630680879869

Option 3 ID : 630680879867

Option 4 ID : 630680879868

Status : Answered

Chosen Option : 3

Q.36 If the 4th term in the expansion of $(ax + \frac{1}{x})^n$ is $\frac{5}{2}$, for all $x \in R$, then the values of a and n are:

Ans ☒ 1. cannot be found

☒ 2. are $\frac{1}{2}$ and 3, respectively

☒ 3. are 1 and 3, respectively

☒ 4. are $\frac{1}{2}$ and 6, respectively

Question ID : 630680226794

Option 1 ID : 630680879886

Option 2 ID : 630680879885

Option 3 ID : 630680879884

Option 4 ID : 630680879883

Status : Not Answered

Chosen Option : --

Q.37 The solution to the recurrence equation $T(2^k) = 3T(2^{k-1}) + 1, T(1) = 1$, is _____.

Ans ☒ 1. $2^{\log_2 k}$

☒ 2. $\frac{3^{k+1} - 1}{2}$

☒ 3. $3^{\log_2 k}$

☒ 4. 2^k

Question ID : 630680226795

Option 1 ID : 630680879890

Option 2 ID : 630680879888

Option 3 ID : 630680879889

Option 4 ID : 630680879887

Status : Not Answered

Chosen Option : --

Q.38 A number in the form of 8^n , where n belongs to natural numbers, can never end with the digit:

Ans ☒ 1. 2

☒ 2. 4

☒ 3. 6

☒ 4. 0

Question ID : 630680226753

Option 1 ID : 630680879720

Option 2 ID : 630680879721

Option 3 ID : 630680879722

Option 4 ID : 630680879719

Status : Answered

Chosen Option : 4

Q.39 Find the zeros of the quadratic polynomial $\sqrt{3}x^2 - 8x + 4\sqrt{3}$.

Ans ☒ 1. $2\sqrt{3}, \frac{-2}{\sqrt{3}}$

☒ 2. $2\sqrt{3}, \frac{2}{\sqrt{3}}$

☒ 3. $-2\sqrt{3}, \frac{-2}{\sqrt{3}}$

☒ 4. $-2\sqrt{3}, \frac{2}{\sqrt{3}}$

Question ID : 630680226802

Option 1 ID : 630680879916

Option 2 ID : 630680879915

Option 3 ID : 630680879918

Option 4 ID : 630680879917

Status : Answered

Chosen Option : 2

Q.40 If the number 11^6 is divided by 7, the remainder will be:

- Ans
- ☐ 1. 4
 - ☒ 2. 1
 - ☐ 3. 3
 - ☐ 4. 2

Question ID : 630680226831
Option 1 ID : 630680880031
Option 2 ID : 630680880034
Option 3 ID : 630680880032
Option 4 ID : 630680880033
Status : Answered
Chosen Option : 2

Q.41 The number $(4312)_5$ when expressed in base 10 is:

- Ans
- ☐ 1. 612
 - ☐ 2. 562
 - ☒ 3. 582
 - ☐ 4. 592

Question ID : 630680226830
Option 1 ID : 630680880030
Option 2 ID : 630680880027
Option 3 ID : 630680880028
Option 4 ID : 630680880029
Status : Not Answered
Chosen Option : --

Q.42 A sector of a circle of radius 15cm has the angle 120° . It is rolled up so that two bounding radii are joined together to form a cone. Find the height of the cone.

- Ans
- ☒ 1. $10\sqrt{2}$ cm
 - ☐ 2. $7\sqrt{2}$ cm
 - ☐ 3. $5\sqrt{3}$ cm
 - ☐ 4. $10\sqrt{3}$ cm

Question ID : 630680226778
Option 1 ID : 630680879819
Option 2 ID : 630680879822
Option 3 ID : 630680879821
Option 4 ID : 630680879820
Status : Not Answered
Chosen Option : --

Q.43 The range of the function $f(x) = \log_e \sqrt{4-x^2}$ is:

- Ans
- ☒ 1. $(0, \infty)$
 - ☒ 2. $(\ln 2, \infty)$
 - ☒ 3. $(-\infty, \infty)$
 - ☒ 4. $(-\infty, \ln 2)$

Question ID : 630680226780

Option 1 ID : 630680879827

Option 2 ID : 630680879830

Option 3 ID : 630680879828

Option 4 ID : 630680879829

Status : Not Answered

Chosen Option : --

Q.44 Which of the following statements is NOT related to the reason for giving a special place to mathematics in the curriculum?

- Ans
- ☒ 1. Mathematics is not for ordinary people
 - ☒ 2. Mathematics is an exact science
 - ☒ 3. Mathematics generates logical attitude in children
 - ☒ 4. The language of mathematics is universal

Question ID : 630680226768

Option 1 ID : 630680879781

Option 2 ID : 630680879779

Option 3 ID : 630680879780

Option 4 ID : 630680879782

Status : Answered

Chosen Option : 1

Q.45 If the sum of n terms of an AP is $3n^2 + 5n$, then which of its terms is 164?

- Ans
- ☒ 1. 26th
 - ☒ 2. 28th
 - ☒ 3. 27th
 - ☒ 4. 29th

Question ID : 630680226791

Option 1 ID : 630680879871

Option 2 ID : 630680879873

Option 3 ID : 630680879872

Option 4 ID : 630680879874

Status : Answered

Chosen Option : 3

Q.46 If X is a Poisson random variable with mean 3, then $P(|X - 3| < 1)$ will be:

Ans

- ✗ 1. $\frac{e^{-3}}{2}$
- ✗ 2. $\frac{99e^{-3}}{8}$
- ✓ 3. $\frac{9e^{-3}}{2}$
- ✗ 4. $3e^{-3}$

Question ID : 630680226769

Option 1 ID : 630680879783

Option 2 ID : 630680879786

Option 3 ID : 630680879785

Option 4 ID : 630680879784

Status : Not Answered

Chosen Option : --

Q.47 If x and y are positive real numbers such that $x^2y^3 = 32$, then the least value of $2x + 3y$ is:

Ans

- ✗ 1. 5
- ✗ 2. 15
- ✓ 3. 10
- ✗ 4. 20

Question ID : 630680226808

Option 1 ID : 630680879939

Option 2 ID : 630680879942

Option 3 ID : 630680879940

Option 4 ID : 630680879941

Status : Answered

Chosen Option : 3

Q.48 Which of the following is good for assessing the level of thinking among students?

Ans

- ✗ 1. Why does the sky appear blue?
- ✗ 2. How many types of blood groups are known in humans?
- ✓ 3. Write a story by looking at a picture
- ✗ 4. What are conventional and non-conventional energy?

Question ID : 630680226765

Option 1 ID : 630680879769

Option 2 ID : 630680879770

Option 3 ID : 630680879768

Option 4 ID : 630680879767

Status : Answered

Chosen Option : 3

Q.49 If one of the zeros of the quadratic polynomial $(k - 1)x^2 + kx + 1$ is -3 , then the value of k is:

Ans

- ✓ 1. $\frac{4}{3}$
 ✗ 2. $\frac{2}{3}$
 ✗ 3. $\frac{-2}{3}$
 ✗ 4. $\frac{-4}{3}$

Question ID : 630680226803

Option 1 ID : 630680879920

Option 2 ID : 630680879921

Option 3 ID : 630680879922

Option 4 ID : 630680879919

Status : Answered

Chosen Option : 1

Q.50 Select the correct value of $\frac{1}{\sqrt{9}+\sqrt{10}} + \frac{1}{\sqrt{10}-\sqrt{11}} + \frac{1}{\sqrt{11}+\sqrt{12}} + \dots$ upto 91 terms from the following options.

Ans

- ✓ 1. 7
 ✗ 2. 9
 ✗ 3. 6
 ✗ 4. 8

Question ID : 630680226827

Option 1 ID : 630680880016

Option 2 ID : 630680880018

Option 3 ID : 630680880015

Option 4 ID : 630680880017

Status : Not Answered

Chosen Option : --

Q.51 A wire is in the shape of a circle of radius 21cm. It is bent to form a square. What will be the side of the square?

[Taken $= \frac{22}{7}$.] ?

Ans

- ✓ 1. 33cm
 ✗ 2. 66cm
 ✗ 3. 44cm
 ✗ 4. 22cm

Question ID : 630680226777

Option 1 ID : 630680879816

Option 2 ID : 630680879818

Option 3 ID : 630680879817

Option 4 ID : 630680879815

Status : Answered

Chosen Option : 1

Q.52 What should be subtracted from the polynomial $2x^2 - 15x + 55$ so that $x - 25$ is the factor of the resulting polynomial?

- Ans**
- ☒ 1. 900
 - ☒ 2. 930
 - ☒ 3. 950
 - ☒ 4. 970

Question ID : 630680226759

Option 1 ID : 630680879744

Option 2 ID : 630680879745

Option 3 ID : 630680879743

Option 4 ID : 630680879746

Status : Answered

Chosen Option : 2

Q.53 Find the coordinates of the points of trisection of the straight line joining the points $A(1, -2)$ and $B(-3, 4)$.

- Ans**
- ☒ 1. $\left(-\frac{5}{3}, 2\right)$ and $\left(-\frac{1}{3}, 0\right)$
 - ☒ 2. $\left(\frac{5}{3}, 2\right)$ and $\left(\frac{1}{3}, 0\right)$
 - ☒ 3. $\left(-\frac{5}{3}, 2\right)$ and $\left(\frac{1}{3}, 0\right)$
 - ☒ 4. $\left(\frac{5}{3}, -2\right)$ and $\left(\frac{1}{3}, 0\right)$

Question ID : 630680226775

Option 1 ID : 630680879808

Option 2 ID : 630680879807

Option 3 ID : 630680879809

Option 4 ID : 630680879810

Status : Answered

Chosen Option : 1

Q.54 Which of the following is the most suitable for teaching children the concept of fractions?

- Ans**
- ☒ 1. Number charts
 - ☒ 2. Abacus
 - ☒ 3. Geoboards
 - ☒ 4. Cuisenaire rods

Question ID : 630680226767

Option 1 ID : 630680879776

Option 2 ID : 630680879778

Option 3 ID : 630680879775

Option 4 ID : 630680879777

Status : Answered

Chosen Option : 4

Q.55 If $3^{x+y} = 81$ and $81^{(x-y)} = 3$, then what is the value of x ?

- Ans
- ✓ 1. $\frac{17}{8}$
 - ✗ 2. $\frac{17}{4}$
 - ✗ 3. $\frac{17}{16}$
 - ✗ 4. $\frac{15}{4}$

Question ID : 630680226817
 Option 1 ID : 630680879976
 Option 2 ID : 630680879977
 Option 3 ID : 630680879975
 Option 4 ID : 630680879978
 Status : Answered
 Chosen Option : 1

Q.56 A ball is drawn at random from a box containing 6 red balls, 4 white balls and 5 black balls. The probability that it is not red is:

- Ans
- ✗ 1. $\frac{3}{7}$
 - ✗ 2. $\frac{4}{5}$
 - ✓ 3. $\frac{3}{5}$
 - ✗ 4. $\frac{2}{5}$

Question ID : 630680226763
 Option 1 ID : 630680879762
 Option 2 ID : 630680879761
 Option 3 ID : 630680879760
 Option 4 ID : 630680879759
 Status : Answered
 Chosen Option : 3

Q.57 If $y = x^{2x}$, then $\frac{dy}{dx} = ?$

- Ans
- ✓ 1. $2x^{2x}(\ln x + 1)$
 - ✗ 2. $x^{2x}(\ln x + 2)$
 - ✗ 3. $2x^{2x}$
 - ✗ 4. $2x^{2x} \ln x$

Question ID : 630680226781
 Option 1 ID : 630680879831
 Option 2 ID : 630680879832
 Option 3 ID : 630680879834
 Option 4 ID : 630680879833
 Status : Answered
 Chosen Option : 1

Q.58 If $x + y = 7$ and $3x + y = 13$, then what is the value of $4x^2 + y^2 + 4xy$?

- Ans
- ☒ 1. 75
 - ☒ 2. 100
 - ☒ 3. 85
 - ☒ 4. 91

Question ID : 630680226819
Option 1 ID : 630680879983
Option 2 ID : 630680879986
Option 3 ID : 630680879984
Option 4 ID : 630680879985
Status : Answered
Chosen Option : 2

Q.59 Which of the following does NOT describe the need of teaching learning material (TLM) at primary level?

- Ans
- ☒ 1. To upgrade creativity
 - ☒ 2. To make the class teacher-centred
 - ☒ 3. To make new ideas simpler
 - ☒ 4. To promote self-learning

Question ID : 630680226852
Option 1 ID : 630680880116
Option 2 ID : 630680880118
Option 3 ID : 630680880115
Option 4 ID : 630680880117
Status : Answered
Chosen Option : 2

Q.60 In a class of 40 students, a teacher runs fast to cover the syllabus only. He has to maintain records of all the activities held during concession. Which of the following factors of continuous evaluation is NOT mentioned here?

- Ans
- ☒ 1. Teachers integrity
 - ☒ 2. Unqualified personal
 - ☒ 3. Large class size
 - ☒ 4. Continuous record keeping

Question ID : 630680226851
Option 1 ID : 630680880113
Option 2 ID : 630680880114
Option 3 ID : 630680880111
Option 4 ID : 630680880112
Status : Answered
Chosen Option : 2

Q.61 If the foot of the perpendicular from the origin to a straight line is at the point $(3, -4)$, then the equation of the line is:

- Ans ☒ 1. $3x - 4y = 25$
- ☐ 2. $3x - 4y + 25 = 0$
- ☐ 3. $4x + 3y - 25 = 0$
- ☐ 4. $4x - 3y + 25 = 0$

Question ID : 630680226823

Option 1 ID : 630680879999

Option 2 ID : 630680880000

Option 3 ID : 630680880001

Option 4 ID : 630680880002

Status : Answered

Chosen Option : 1

Q.62 Which of the following steps is provided the maximum time in the micro-teaching cycle?

- Ans ☐ 1. Re-feedback
- ☐ 2. Re-teach
- ☐ 3. Feedback
- ☒ 4. Re-plan

Question ID : 630680226848

Option 1 ID : 630680880102

Option 2 ID : 630680880100

Option 3 ID : 630680880101

Option 4 ID : 630680880099

Status : Answered

Chosen Option : 1

Q.63 If $f(2a - x) = f(x)$ and $\int_0^a f(x) dx = \lambda$, then $\int_0^{2a} f(x) dx = ?$

- Ans ☐ 1. λ
- ☒ 2. 2λ
- ☐ 3. 0
- ☐ 4. 3λ

Question ID : 630680226838

Option 1 ID : 630680880060

Option 2 ID : 630680880059

Option 3 ID : 630680880061

Option 4 ID : 630680880062

Status : Answered

Chosen Option : 2

Q.64 Select the correct definition of problem solving according to the National Council of Teachers of Mathematics (NCTM, 2000) from among the following.

- Ans** ☒ 1. Problem solving is an integral part of all mathematical learning, and so it should be an isolated part of the mathematical programme.
- ☒ 2. Problem solving is cognitive processing directed at achieving a goal when no solution method is obvious to the problem solver.
- ☒ 3. Problem solving is engaging in a task for which the solution method is not known in advance.
- ☒ 4. Problem solving is the activity called into play when there is a demand to apply knowledge, skill, and experience to unfamiliar situations.

Question ID : 630680226840

Option 1 ID : 630680880069

Option 2 ID : 630680880067

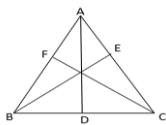
Option 3 ID : 630680880068

Option 4 ID : 630680880070

Status : Answered

Chosen Option : 4

Q.65 Three concurrent straight lines are drawn from the angular points A, B and C of the triangle ABC to meet the opposite sides at D, E and F , respectively, as shown in the figure below. It is given that $AF : FB = 2 : 3$ and $BD : DC = 3 : 5$. Find $AE : EC$?



- Ans** ☒ 1. 3 : 4
- ☒ 2. 2 : 5
- ☒ 3. 5 : 2
- ☒ 4. 4 : 5

Question ID : 630680226835

Option 1 ID : 630680880047

Option 2 ID : 630680880050

Option 3 ID : 630680880049

Option 4 ID : 630680880048

Status : Not Answered

Chosen Option : --

Q.66 The solution of the system of congruence $x = 3(mod 5), x = 5(mod 7)$ is:

- Ans** ☒ 1. $x = 27(mod 35)$
- ☒ 2. $x = 33(mod 35)$
- ☒ 3. $x = 23(mod 35)$
- ☒ 4. $x = 29(mod 35)$

Question ID : 630680226832

Option 1 ID : 630680880038

Option 2 ID : 630680880037

Option 3 ID : 630680880035

Option 4 ID : 630680880036

Status : Answered

Chosen Option : 2

Q.67 The value of x satisfying $85x \equiv 45 \pmod{15}$ is:

- Ans ☒ 1. 15
☒ 2. 10
☒ 3. 35
☒ 4. 25

Question ID : 630680226755
Option 1 ID : 630680879728
Option 2 ID : 630680879727
Option 3 ID : 630680879730
Option 4 ID : 630680879729
Status : Not Answered
Chosen Option : --

Q.68 The points $(-4,0)$, $(4,0)$ and $(0,3)$ are the vertices of a/an:

- Ans ☒ 1. isosceles triangle
☒ 2. scalene triangle
☒ 3. right-angled triangle
☒ 4. equilateral triangle

Question ID : 630680226774
Option 1 ID : 630680879804
Option 2 ID : 630680879806
Option 3 ID : 630680879803
Option 4 ID : 630680879805
Status : Answered
Chosen Option : 1

Q.69 If PM is the perpendicular from $p(2,3)$ on the line $x + y = 3$, then the coordinates of M are:

- Ans ☒ 1. $(-1, 4)$
☒ 2. $(1, 2)$
☒ 3. $(2, 1)$
☒ 4. $(4, -1)$

Question ID : 630680226824
Option 1 ID : 630680880004
Option 2 ID : 630680880005
Option 3 ID : 630680880003
Option 4 ID : 630680880006
Status : Answered
Chosen Option : 3

Q.70 A class is a mix of slow learners and intelligent students. Taking into consideration the learning capabilities of different students, the teacher should adjust his teaching pace to ensure that every student benefits from the teaching. Which of the following teaching skills should a teacher possess to become an effective tutor in such a situation?

- Ans
- ☐ 1. Student involvement
 - ☐ 2. Classroom management
 - ☐ 3. Reinforcement
 - ☒ 4. Observation

Question ID : 630680226845
Option 1 ID : 630680880090
Option 2 ID : 630680880088
Option 3 ID : 630680880089
Option 4 ID : 630680880087
Status : Answered
Chosen Option : 1

Q.71 The point which divides the line segment joining the points (7, -6) and (3, 4) in the ratio 1 : 2 internally lies in the:

- Ans
- ☐ 1. II quadrant
 - ☐ 2. I quadrant
 - ☒ 3. IV quadrant
 - ☐ 4. III quadrant

Question ID : 630680226776
Option 1 ID : 630680879812
Option 2 ID : 630680879811
Option 3 ID : 630680879814
Option 4 ID : 630680879813
Status : Answered
Chosen Option : 3

Q.72 If the mean of the first n odd natural numbers is $\frac{n^2}{81}$, then what is the value of n ?

- Ans
- ☐ 1. 27
 - ☐ 2. 9
 - ☒ 3. 81
 - ☐ 4. 40

Question ID : 630680226798
Option 1 ID : 630680879901
Option 2 ID : 630680879899
Option 3 ID : 630680879900
Option 4 ID : 630680879902
Status : Answered
Chosen Option : 3

Q.73 The quadratic equations $x^2 - 6x + a = 0$ and $x^2 - cx + 6 = 0$ have one root in common. The other roots of the first and second equations are integers in the ratio 4 : 3. What is the common root?

- Ans**
- ☒ 1. 1
 - ☒ 2. 3
 - ☒ 3. 4
 - ☒ 4. 2

Question ID : 630680226783

Option 1 ID : 630680879839

Option 2 ID : 630680879841

Option 3 ID : 630680879840

Option 4 ID : 630680879842

Status : Not Answered

Chosen Option : --

Q.74 The range of ab if $|a| \leq 1$ and $a + b = 1, (a, b \in R)$, is:

- Ans**
- ☒ 1. $[0, 2]$
 - ☒ 2. $\left[\frac{1}{4}, 2\right]$
 - ☒ 3. $\left[-2, \frac{1}{4}\right]$
 - ☒ 4. $\left[0, \frac{1}{4}\right]$

Question ID : 630680226809

Option 1 ID : 630680879946

Option 2 ID : 630680879945

Option 3 ID : 630680879944

Option 4 ID : 630680879943

Status : Not Answered

Chosen Option : --

Q.75 Let A be a 3×3 matrix, whose characteristic roots are 3, 2 and -1 . If $B = A^2 - A$, then $|B|$ is:

- Ans**
- ☒ 1. 24
 - ☒ 2. -12
 - ☒ 3. 12
 - ☒ 4. -2

Question ID : 630680226813

Option 1 ID : 630680879959

Option 2 ID : 630680879962

Option 3 ID : 630680879961

Option 4 ID : 630680879960

Status : Not Answered

Chosen Option : --

Q.76 If the polynomial $6x^3 + 13x^2 + x - 2$ is divided by $2x + 1$, then what will be the quotient and the remainder?

- Ans
- ☒ 1. $Q = 3x^2 - 5x + 2, R = 0$
 - ☒ 2. $Q = 3x^2 + 5x - 2, R = 0$
 - ☒ 3. $Q = 3x^2 + 5x - 2, R = 1$
 - ☒ 4. $Q = 3x^2 - 5x - 2, R = 0$

Question ID : 630680226801

Option 1 ID : 630680879913

Option 2 ID : 630680879911

Option 3 ID : 630680879914

Option 4 ID : 630680879912

Status : Answered

Chosen Option : 2

Q.77 The value of a for which the sum of the squares of the roots of the equation $x^2 - (a - 2)x - a - 1 = 0$ assumes the least value is:

- Ans
- ☒ 1. 1
 - ☒ 2. 3
 - ☒ 3. 2
 - ☒ 4. 0

Question ID : 630680226788

Option 1 ID : 630680879860

Option 2 ID : 630680879862

Option 3 ID : 630680879861

Option 4 ID : 630680879859

Status : Answered

Chosen Option : 1

Q.78 The value of p for which the polynomial $x^3 + 4x^2 - px + 8$ is exactly divisible by $(x - 2)$ is:

- Ans
- ☒ 1. 0
 - ☒ 2. 12
 - ☒ 3. 16
 - ☒ 4. 3

Question ID : 630680226800

Option 1 ID : 630680879907

Option 2 ID : 630680879910

Option 3 ID : 630680879909

Option 4 ID : 630680879908

Status : Answered

Chosen Option : 3

Q.79 Let X be a normal random variable with mean zero and variance 9. If $a = P(X \geq 3)$, then $P(|X| \leq 3)$ is equal to:

- Ans**
- ☒ 1. a
 - ☒ 2. $1 - a$
 - ☒ 3. $2a$
 - ☒ 4. $1 - 2a$

Question ID : 630680226770

Option 1 ID : 630680879787

Option 2 ID : 630680879788

Option 3 ID : 630680879789

Option 4 ID : 630680879790

Status : Not Answered

Chosen Option : --

Q.80 The first and last terms of an AP are 1 and 11. If the sum of its terms is 36, then the number of terms will be:

- Ans**
- ☒ 1. 6
 - ☒ 2. 5
 - ☒ 3. 8
 - ☒ 4. 7

Question ID : 630680226792

Option 1 ID : 630680879876

Option 2 ID : 630680879875

Option 3 ID : 630680879878

Option 4 ID : 630680879877

Status : Answered

Chosen Option : 1

Q.81 Consider that α and β are zeros of $x^2 - 6x + k$. What is the value of k if $3\alpha + 2\beta = 20$?

- Ans**
- ☒ 1. -8
 - ☒ 2. -2
 - ☒ 3. 8
 - ☒ 4. -16

Question ID : 630680226799

Option 1 ID : 630680879906

Option 2 ID : 630680879905

Option 3 ID : 630680879904

Option 4 ID : 630680879903

Status : Answered

Chosen Option : 4

Q.82 Arrange the following stages of problem-solving approach in a logical order.
(i) Present and discuss
(ii) Grasp the problem
(iii) Summarise and reflect
(iv) Try to solve

- Ans ☒ 1. (i) (iii) (ii) (iv)
☒ 2. (ii), (i), (iv), (iii)
☒ 3. (ii), (iv), (i), (iv)
☒ 4. (ii), (iv), (i), (iii)

Question ID : 630680226839
Option 1 ID : 630680880066
Option 2 ID : 630680880064
Option 3 ID : 630680880065
Option 4 ID : 630680880063
Status : Answered
Chosen Option : 1

Q.83 Let $s = \{(-1, 0, 1), (2, 1, 4)\}$. The value of k for which the vectors $(3k + 2, 3, 10)$ belong to the linear span of s will be:

- Ans ☒ 1. 8
☒ 2. 3
☒ 3. -2
☒ 4. 2

Question ID : 630680226814
Option 1 ID : 630680879965
Option 2 ID : 630680879966
Option 3 ID : 630680879963
Option 4 ID : 630680879964
Status : Not Answered
Chosen Option : --

Q.84 If the difference between the corresponding roots of $x^2 + ax + b = 0$ and $x^2 + bx + a = 0$ is the same and $a \neq b$, then:

- Ans ☒ 1. $a - b - 4 = 0$
☒ 2. $a + b - 4 = 0$
☒ 3. $a + b + 4 = 0$
☒ 4. $a - b + 4 = 0$

Question ID : 630680226785
Option 1 ID : 630680879849
Option 2 ID : 630680879848
Option 3 ID : 630680879847
Option 4 ID : 630680879850
Status : Not Answered
Chosen Option : --

Q.85 The value of k for which $kx + 3y - k + 3 = 0$ and $12x + ky = k$ have an infinite solution is:

- Ans
- ☐ 1. 1
 - ☐ 2. -6
 - ☐ 3. 0
 - ☒ 4. 6

Question ID : 630680226818
Option 1 ID : 630680879982
Option 2 ID : 630680879980
Option 3 ID : 630680879979
Option 4 ID : 630680879981
Status : Answered
Chosen Option : 4

Q.86 Three cubes of sides 1 cm, 6 cm and 8 cm are melted to form a new cube. Find half of the surface area of the new cube.

- Ans
- ☐ 1. 463 cm²
 - ☐ 2. 486 cm²
 - ☐ 3. 293 cm²
 - ☒ 4. 243 cm²

Question ID : 630680226779
Option 1 ID : 630680879824
Option 2 ID : 630680879825
Option 3 ID : 630680879826
Option 4 ID : 630680879823
Status : Answered
Chosen Option : 4

Q.87 Given below are two statements. One is labelled as Assertion (A) and the other is labelled as Reason (R).
Assertion (A): ICT integration in mathematical education has a positive impact on both the teaching and learning process.
Reason (R): Schools send their mathematics teachers to attend seminar and workshop in order to update their knowledge.
In light of the above statements, select the correct answer from the options given below.

- Ans
- ☐ 1. (A) is true but (R) is false.
 - ☒ 2. Both (A) and (R) are true but (R) is not the correct explanation of (A).
 - ☐ 3. (A) is false, but (R) is true.
 - ☐ 4. Both (A) and (R) are true and (R) is the correct explanation of (A).

Question ID : 630680226844
Option 1 ID : 630680880085
Option 2 ID : 630680880084
Option 3 ID : 630680880086
Option 4 ID : 630680880083
Status : Answered
Chosen Option : 2

Q.88 What is the second last digit of 91^{20043} ?

Ans ☒ 1. 7

☐ 2. 6

☐ 3. 8

☐ 4. 5

Question ID : 630680226756

Option 1 ID : 630680879732

Option 2 ID : 630680879733

Option 3 ID : 630680879731

Option 4 ID : 630680879734

Status : Not Answered

Chosen Option : --

Q.89 Given that $\tan A$ and $\tan B$ are the roots of the equation $ax^2 - ax + b = 0$. The value of $\sin^2(A+B)$ is:

Ans

☒ 1. $\frac{a^2}{a^2 + (1-b)^2}$

☐ 2. $\frac{a^2}{(a+b)^2}$

☐ 3. $\frac{a^2}{b^2 + (1-a)^2}$

☐ 4. $\frac{a^2}{a^2 + b^2}$

Question ID : 630680226771

Option 1 ID : 630680879791

Option 2 ID : 630680879793

Option 3 ID : 630680879794

Option 4 ID : 630680879792

Status : Not Answered

Chosen Option : --

Q.90 If the eigenvalues of a 3×3 real matrix of A are 1, 2 and -3 , then:

Ans

☐ 1. $A^{-1} = -\frac{1}{6}(7I - A^2)$

☐ 2. $A^{-1} = -\frac{1}{6}A^2$

☐ 3. $A^{-1} = -\frac{1}{6}(7I + A^2)$

☒ 4. $A^{-1} = \frac{1}{6}(7I - A^2)$

Question ID : 630680226812

Option 1 ID : 630680879957

Option 2 ID : 630680879955

Option 3 ID : 630680879958

Option 4 ID : 630680879956

Status : Not Answered

Chosen Option : --

Q.91 The value of k such that $3x^2 - 11xy + 10y^2 - 7x + 13y + k = 0$ may represent a pair of straight lines is:

- Ans
- ☒ 1. 8
 - ☒ 2. 4
 - ☒ 3. 6
 - ☒ 4. 3

Question ID : 630680226820
Option 1 ID : 630680879990
Option 2 ID : 630680879988
Option 3 ID : 630680879989
Option 4 ID : 630680879987
Status : Not Answered
Chosen Option : --

Q.92 Select the correct option that a teacher should follow to assess the mathematical reasoning ability of the students.

- Ans
- ☒ 1. Beginning, Analysing, Justifying
 - ☒ 2. Analysing, Generalising, Justifying.
 - ☒ 3. Synthesising, Developing, Justifying
 - ☒ 4. Developing, Extending, Justifying

Question ID : 630680226850
Option 1 ID : 630680880108
Option 2 ID : 630680880107
Option 3 ID : 630680880109
Option 4 ID : 630680880110
Status : Answered
Chosen Option : 4

Q.93 Vatsala plays an aeroplane in a fancy dress competition but becomes upset when she cannot actually fly with her wings. Which of the following stages given by Jean Piaget applies to this child's level of development?

- Ans
- ☒ 1. Sensory motor
 - ☒ 2. Pre-operational
 - ☒ 3. Formal operational
 - ☒ 4. Concrete operational

Question ID : 630680226842
Option 1 ID : 630680880075
Option 2 ID : 630680880076
Option 3 ID : 630680880078
Option 4 ID : 630680880077
Status : Answered
Chosen Option : 3

Q.94 If the distance between two points $(4, p)$ and $(1, 0)$ is 5, then the value of p is:

- Ans
- ✓ 1. ± 4
 - ✗ 2. 0
 - ✗ 3. 4
 - ✗ 4. -4

Question ID : 630680226773
 Option 1 ID : 630680879800
 Option 2 ID : 630680879802
 Option 3 ID : 630680879799
 Option 4 ID : 630680879801
 Status : Answered
 Chosen Option : 1

Q.95 The set of points where the function f given by $f(x) = |2x + 7| \sin x$ is differentiable is:

- Ans
- ✗ 1. $\left(-\frac{9}{2}, \infty\right)$
 - ✗ 2. $\mathbb{R}$
 - ✗ 3. $\mathbb{R} - \left\{\frac{7}{2}\right\}$
 - ✓ 4. $\mathbb{R} - \left\{-\frac{7}{2}\right\}$

Question ID : 630680226761
 Option 1 ID : 630680879753
 Option 2 ID : 630680879751
 Option 3 ID : 630680879754
 Option 4 ID : 630680879752
 Status : Answered
 Chosen Option : 2

Q.96 The difference between $5.\overline{76}$ and $2.\overline{3}$ is:

- Ans
- ✓ 1. $3.\overline{43}$
 - ✗ 2. $2.\overline{54}$
 - ✗ 3. $3.\overline{46}$
 - ✗ 4. $3.\overline{73}$

Question ID : 630680226826
 Option 1 ID : 630680880014
 Option 2 ID : 630680880011
 Option 3 ID : 630680880013
 Option 4 ID : 630680880012
 Status : Answered
 Chosen Option : 1

Q.97 The volume of a cube is numerically equal to some of its edges. What is the total surface area of the cube(in square units)?

- Ans**
- ☒ 1. 36
 - ☒ 2. 144
 - ☒ 3. 12
 - ☒ 4. 72

Question ID : 630680226837

Option 1 ID : 630680880056

Option 2 ID : 630680880058

Option 3 ID : 630680880055

Option 4 ID : 630680880057

Status : Answered

Chosen Option : 4

Q.98 The y intercept of the line passing through (2,2) and perpendicular to the line $3x + y = 3$ is:

- Ans**
- ☒ 1. $\frac{2}{3}$
 - ☒ 2. $\frac{4}{3}$
 - ☒ 3. $\frac{1}{3}$
 - ☒ 4. 1

Question ID : 630680226822

Option 1 ID : 630680879996

Option 2 ID : 630680879998

Option 3 ID : 630680879995

Option 4 ID : 630680879997

Status : Not Answered

Chosen Option : --

Q.99 If $A + B = \frac{\pi}{4}$, then $(\tan A + 1)(\tan B + 1)$ is equal to:

- Ans**
- ☒ 1. -1
 - ☒ 2. 2
 - ☒ 3. $\sqrt{3}$
 - ☒ 4. 1

Question ID : 630680226772

Option 1 ID : 630680879798

Option 2 ID : 630680879796

Option 3 ID : 630680879797

Option 4 ID : 630680879795

Status : Not Answered

Chosen Option : --

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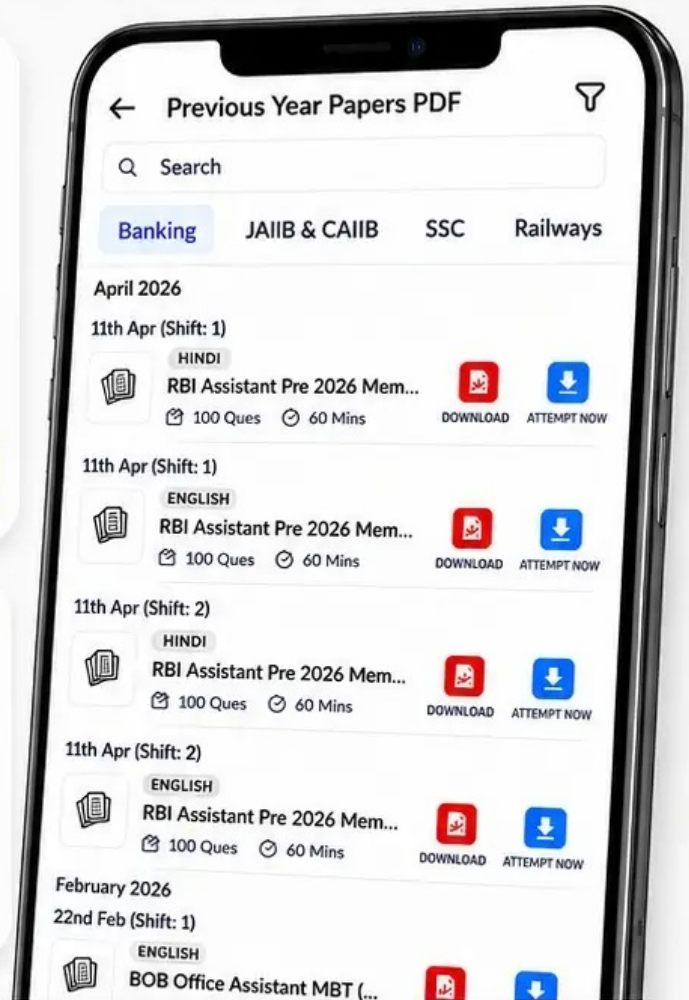
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Q.100 Let $R = (5\sqrt{5} + 11)^{2n+1}$ and f be the fractional part of R , then Rf is equal to:

Ans ☒ 1. 4^{2n+1}

☐ 2. 2^{2n+1}

☐ 3. 3^{2n+1}

☐ 4. 5^{2n+1}

Question ID : 630680226829

Option 1 ID : 630680880025

Option 2 ID : 630680880023

Option 3 ID : 630680880024

Option 4 ID : 630680880026

Status : Not Answered

Chosen Option : --

