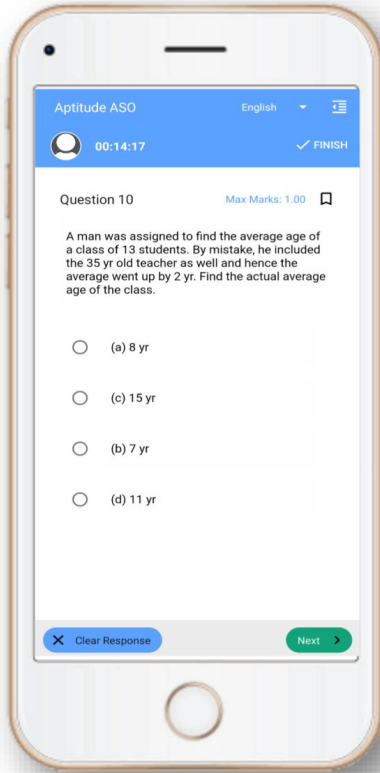


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ODISHA ADARSHA VIDYALAYA SANGATHAN

Participant ID	Techofworld.In
Participant Name	Techofworld.In
Test Center Name	Balasore College Of Engineering & Technology MAC Center
Test Date	29/01/2021
Test Time	9:00 AM - 12:20 PM
Subject	TGT Maths

Section : Language Proficiency Test

Q.1 Choose the word which means the same as the group of words given.

A person who travels to a holy place for religious reasons

- Ans
- 1. Mendicant
 - 2. Tourist
 - 3. Hermit
 - 4. Pilgrim

Question ID : 6009291804
Status : Answered
Chosen Option : 3

Q.2 The parts of a sentence have been jumbled. These parts have been labelled as P, Q, R and S. Rearrange the jumbled parts to form a meaningful sentence.

- (P) various ailments like
(Q) brings with it
(R) obesity and cardio-vascular diseases
(S) a fast-paced lifestyle

- Ans
- 1. RSPQ
 - 2. SRQP
 - 3. QRSP
 - 4. SQPR

Question ID : 6009291798
Status : Answered
Chosen Option : 4

Q.3 Read the given sentence and identify the part of the sentence that has an error.

I called my friend / to thank her for / inviting me / in her wedding.

- Ans
- 1. inviting me
 - 2. I called my friend
 - 3. in her wedding.
 - 4. to thank her for

Question ID : 6009291789
Status : Not Answered
Chosen Option : --



Q.4 Choose the option that is the correct indirect form of the given sentence.

The policeman said to the lady, "Do you know the man in this picture?"

- Ans
- 1. The policeman asked the lady if she knows the man in that picture.
 - 2. The policeman asked the lady whether she would know the man in that picture.
 - 3. The policeman asked the lady if she has known the man in that picture.
 - 4. The policeman asked the lady whether she knew the man in that picture.

Question ID : 6009291796
Status : Answered
Chosen Option : 4

Q.5 Choose the correctly spelt word from the following options.

- Ans
- 1. Privelege
 - 2. Privilege
 - 3. Priviliege
 - 4. Previllege

Question ID : 6009291803
Status : Answered
Chosen Option : 2

Q.6 Read the given sentence and identify the part of the sentence that has an error.

I was used to / love reading comics / and magazines / when I was younger.

- Ans
- 1. love reading comics
 - 2. I was used to
 - 3. when I was younger.
 - 4. and magazines

Question ID : 6009291790
Status : Answered
Chosen Option : 3

Q.7 The parts of a sentence have been jumbled. These parts have been labelled as P, Q, R and S. Rearrange the jumbled parts to form a meaningful sentence.

(P) of educating people about
(Q) has now taken up the responsibility
(R) a section of the media
(S) the importance of good health and hygiene

- Ans
- 1. QSRP
 - 2. RSPQ
 - 3. RQPS
 - 4. SQPR

Question ID : 6009291800
Status : Answered
Chosen Option : 3

Q.8 Read the given sentence and identify the part of the sentence that has an error.

This shop stocks / some of the / latest designs / in office furnitures.

- Ans
- 1. latest designs
 - 2. some of the
 - 3. This shop stocks
 - 4. in office furnitures.

Q.9 Read the given sentence and identify the part of the sentence that has an error.

I am not knowing / the answer / to any of / your questions.

- Ans
- 1. I am not knowing
 - 2. your questions.
 - 3. to any of
 - 4. the answer

Question ID : 6009291788
Status : Answered
Chosen Option : 1

Q.10 Choose the word which means the same as the group of words given.

A person's first appearance or performance in a particular capacity or role

- Ans
- 1. Graduation
 - 2. Inception
 - 3. Debut
 - 4. Emergence

Question ID : 6009291805
Status : Answered
Chosen Option : 3

Q.11 Choose the option that is the correct indirect form of the given sentence.

The children said to the teacher, "We haven't had our lunch yet."

- Ans
- 1. The children told the teacher that they are not having their lunch yet.
 - 2. The children told the teacher that they haven't had their lunch yet.
 - 3. The children told the teacher that they didn't have their lunch yet.
 - 4. The children told the teacher that they hadn't had their lunch yet.

Question ID : 6009291797
Status : Answered
Chosen Option : 4

Q.12 Choose the option that is the correct indirect form of the given sentence.

Raju said to his friend, "I may visit my uncle tomorrow."

- Ans
- 1. Raju told his friend that he may visit his uncle the next day.
 - 2. Raju told his friend that he might visit his uncle the next day.
 - 3. Raju told his friend that he visits his uncle the next day.
 - 4. Raju told his friend that he might be visiting his uncle the next day.

Question ID : 6009291795
Status : Answered
Chosen Option : 2

Q.13 Choose the alternative that will improve the underlined part of the given sentence. In case no improvement is required, select the option 'No improvement required'.

She is interesting in buying a big house in the city.

- Ans
- 1. No improvement required
 - 2. is interested in
 - 3. is interested to
 - 4. was interesting to

Q.14 The parts of a sentence have been jumbled. These parts have been labelled as P, Q, R and S. Rearrange the jumbled parts to form a meaningful sentence.

- (P) measures to improve the revenue
(Q) with the branch managers
(R) during the meeting
(S) the chairman suggested some

- Ans 1. SQPR
 2. RSQP
 3. RPQS
 4. SPRQ

Question ID : 6009291799
Status : Answered
Chosen Option : 4

Q.15 Choose the option that is the correct active form of the given sentence.

By whom was this old picture of my grandmother found?

- Ans 1. Who did find this old picture of my grandmother?
 2. Who is finding this old picture of my grandmother?
 3. Who has found this old picture of my grandmother?
 4. Who found this old picture of my grandmother?

Question ID : 6009291794
Status : Answered
Chosen Option : 1

Q.16 Choose the word which means the same as the group of words given.

An exact copy or model of something, especially on a smaller scale

- Ans 1. Substitute
 2. Forgery
 3. Replica
 4. Effigy

Question ID : 6009291806
Status : Answered
Chosen Option : 3

Q.17 The parts of a sentence have been jumbled. These parts have been labelled as P, Q, R and S. Rearrange the jumbled parts to form a meaningful sentence.

- (P) due to brain injury suggests
(Q) the study of speech disorders
(R) adequate control over their language
(S) that patients can think without having

- Ans 1. QSRP
 2. QPSR
 3. RSPQ
 4. PSRQ

Question ID : 6009291801
Status : Answered
Chosen Option : 2

Q.18 Choose the option that is the correct passive form of the given sentence.

The manager has kept the files on the table.

- Ans 1. The files had been kept on the table by the manager.
 2. The files are being kept on the table by the manager.
 3. The files were kept on the table by the manager.
 4. The files have been kept on the table by the manager.

Q.19 Choose the alternative that will improve the underlined part of the given sentence. In case no improvement is required, select the option 'No improvement required'.

If someone tried to cheat me, I would have informed the police.

- Ans 1. would inform
 2. No improvement required
 3. will inform
 4. have informed

Question ID : 6009291792
 Status : Answered
 Chosen Option : 1

Q.20 Choose the correctly spelt word from the following options.

- Ans 1. Counsious
 2. Concsious
 3. Consious
 4. Conscious

Question ID : 6009291802
 Status : Answered
 Chosen Option : 4

Q.21 'ବୃତ୍ତି' ଶବ୍ଦର ଅର୍ଥ 'ଆବରଣ' ହେଲେ 'ବୃତ୍ତି'ର ଅର୍ଥ ହେବ-

- Ans 1. ଜୀବିକା
 2. ପୁରସ୍କାର
 3. ବାଟ
 4. ଆଚରଣ

Question ID : 6009291812
 Status : Answered
 Chosen Option : 1

Q.22 ଯେ ସତ୍ୟ ପଥରେ ଯାଏ ତାକୁ କୁହାଯାଏ-

- Ans 1. ସତ୍ୟବାଦୀ
 2. ସତ୍ୟମାର୍ଗୀ
 3. ସତ୍ୟପ୍ରିୟ
 4. ସତ୍ୟାନନ୍ଦ

Question ID : 6009291817
 Status : Answered
 Chosen Option : 2

Q.23 ଏଥି ମଧ୍ୟରୁ କେଉଁ ଶବ୍ଦଟି ଘୋଡ଼ାକୁ ବୁଝାଏ?

- Ans 1. ବାଜି
 2. ପକ୍ଷ
 3. ବାରି
 4. ହିଜ

Q.24 ଏଥିମଧ୍ୟରୁ କେଉଁ ଶବ୍ଦଟି ଅଶୁଦ୍ଧ?

- Ans
- 1. ଜନତା ମାନଙ୍କର
 - 2. ସତ୍ୟ ବଚନ
 - 3. ବିଷଣ୍ଣ ବଦନ
 - 4. ପରାକ୍ରମୀ

Question ID : 6009291821
Status : Not Answered
Chosen Option : --

Q.25 ବିଧି ନିର୍ଦ୍ଦେଶରେ ସମସ୍ତେ _____ ଉପଯୁକ୍ତ ଶବ୍ଦଟି ବାଛି ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର

- Ans
- 1. ପରିଚାଳିତ
 - 2. ଉପେକ୍ଷିତ
 - 3. ସମ୍ମାନିତ
 - 4. ଆତଙ୍କିତ

Question ID : 6009291809
Status : Answered
Chosen Option : 1

Q.26 'ଗଛରୁ ତୋଳା'କୁ ଅନ୍ୟ ଭାବରେ କୁହାଯାଇପାରେ-

- Ans
- 1. ଗଛରୁ ତୋଳିବା
 - 2. ଗଛତୋଳା
 - 3. ବୃକ୍ଷ ରୋପଣ
 - 4. ଫଳ

Question ID : 6009291819
Status : Answered
Chosen Option : 2

Q.27 "କଟା ଘାରେ ଚୂନ ଦେବା" ଏଥିରେ 'ଚୂନଦେବା'- ଶବ୍ଦଟି କେଉଁ ବିଶେଷ ଅର୍ଥ ପ୍ରକାଶ କରିଥାଏ?

- Ans
- 1. ସହଯୋଗ କରିବା
 - 2. ସାହାଯ୍ୟ କରିବା
 - 3. ଆରାମ ଦେବା
 - 4. ଯତ୍ନଶୀଳ ଦେବା

Question ID : 6009291824
Status : Answered
Chosen Option : 4

Q.28 "ଘୁଷୁରାକି ପାଟିଲା କଦଳୀ" ପ୍ରୟୋଗରେ 'ଘୁଷୁରା' କାହାକୁ କୁହାଯାଇଥାଏ?

- Ans
- 1. ପଶୁକୁ
 - 2. ଅଯୋଗ୍ୟବ୍ୟକ୍ତିକୁ
 - 3. ମଣିଷକୁ
 - 4. ଘୁଷୁରାକୁ

Question ID : 6009291823
Status : Answered

Q.29 ଗଙ୍ଗା/ କାବେରୀକୁ/ କୁହନ୍ତି/ ଦକ୍ଷିଣ ଭାରତରେ - ଠିକ କ୍ରମରେ ସଜାଇଲେ ତୁଟିଶୂନ୍ୟ ବାକ୍ୟଟି ହେବ-

- Ans
- 1. ଦକ୍ଷିଣ କାବେରୀକୁ ଭାରତରେ କୁହନ୍ତି ଗଙ୍ଗା
 - 2. କାବେରୀକୁ ଦକ୍ଷିଣ ଭାରତରେ ଗଙ୍ଗା କୁହନ୍ତି
 - 3. ଗଙ୍ଗା କୁହନ୍ତି ଦକ୍ଷିଣ ଭାରତରେ କାବେରୀକୁ
 - 4. ଭାରତରେ କାବେରୀକୁ ଦକ୍ଷିଣ ଗଙ୍ଗା କୁହନ୍ତି

Question ID : 6009291813
Status : Answered
Chosen Option : 2

Q.30 'ଦିଅ ମିଶା ଭାତ'କୁ ଗୋଟିଏ ଶବ୍ଦରେ ପ୍ରକାଶ କଲେ ହେବ-

- Ans
- 1. ଭାତରେ ଦିଅ
 - 2. ଭାତଦିଅ
 - 3. ଦିଅଭାତ
 - 4. ଦିଅର ଭାତ

Question ID : 6009291810
Status : Answered
Chosen Option : 3

Q.31 'ବନ୍ଧ' ଶବ୍ଦର ଅର୍ଥ କଣ ?

- Ans
- 1. ବୋକା
 - 2. ଶାସ୍ତ୍ର
 - 3. ବନ୍ଧା
 - 4. ହତ୍ୟା

Question ID : 6009291811
Status : Answered
Chosen Option : 4

Q.32 "ତାଙ୍କର ଅଚଳାଚଳ ମନୋବୃତ୍ତି ରହିଛି"- ବାକ୍ୟରେ କେଉଁ ଶବ୍ଦର ପ୍ରୟୋଗରେ ତୁଟି ରହିଛି ?

- Ans
- 1. ରହିଛି
 - 2. ମନୋବୃତ୍ତି
 - 3. ତାଙ୍କର
 - 4. ଅଚଳାଚଳ

Question ID : 6009291820
Status : Not Answered
Chosen Option : --

Q.33 'ବିଧୁ' ଶବ୍ଦର ଅର୍ଥ କଣ ?

- Ans
- 1. ଚନ୍ଦ୍ର
 - 2. ପୃଥିବୀ
 - 3. ସୂର୍ଯ୍ୟ
 - 4. ଆକାଶ

Question ID : 6009291826

Q.34 ଭାଷା ଶିକ୍ଷା ପାଇଁ ବ୍ୟାକରଣ ଧର୍ମ ଆବଶ୍ୟକ - ବାକ୍ୟଟିକୁ ସଜାଡିବାକୁ ହେଲେ କେଉଁ ଶବ୍ଦର ପରିବର୍ତ୍ତନ କରିବାକୁ ପଡିବ ?

- Ans
- 1. ଆବଶ୍ୟକ
 - 2. ଭାଷା ଶିକ୍ଷା
 - 3. ଧର୍ମ
 - 4. ବ୍ୟାକରଣ

Question ID : 6009291815
Status : Not Answered
Chosen Option : --

Q.35 'ଦୁଷ୍ଟତ' ଶବ୍ଦର ବିପରୀତାର୍ଥ ଶବ୍ଦଟି ହେବ-

- Ans
- 1. ଦୁରାଚାରୀ
 - 2. ସୁକୁମାର
 - 3. ସୁକର୍ମୀ
 - 4. ସୁକୃତ

Question ID : 6009291816
Status : Answered
Chosen Option : 4

Q.36 'ସର୍ବହରା' କାହାକୁ କୁହାଯାଇଥାଏ ?

- Ans
- 1. ଯେ ଜୀବନରେ ହାରିଥାଏ
 - 2. ଯେ ଅନ୍ୟର ସମ୍ପତ୍ତିକୁ ଲୋଭ କରେ
 - 3. ଯେ ଅପହରଣ କରେ
 - 4. ଯେ ସବୁକିଛି ହରାଇଥାଏ

Question ID : 6009291822
Status : Answered
Chosen Option : 4

Q.37 ଅହରହ/ ପ୍ରକୃତି ରାଜ୍ୟରେ/ ଲାଗି ରହିଛି/ ବିଭିନ୍ନ ଲୀଳା- ଉପଯୁକ୍ତ କ୍ରମରେ ରଖିଲେ ବାକ୍ୟଟି ହେବ-

- Ans
- 1. ପ୍ରକୃତି ରାଜ୍ୟରେ ବିଭିନ୍ନ ଲୀଳା ଲାଗି ରହିଛି ଅହରହ
 - 2. ପ୍ରକୃତି ରାଜ୍ୟରେ ଅହରହ ବିଭିନ୍ନ ଲୀଳା ଲାଗି ରହିଛି
 - 3. ଅହରହ ବିଭିନ୍ନ ଲୀଳା ଲାଗି ରହିଛି ପ୍ରକୃତି ରାଜ୍ୟରେ
 - 4. ବିଭିନ୍ନ ଲୀଳା ପ୍ରକୃତି ରାଜ୍ୟରେ ଲାଗି ରହିଛି ଅହରହ

Question ID : 6009291814
Status : Answered
Chosen Option : 2

Q.38 ସହଜରେ ନାହିଁ ସ୍ମୃତାବ ବଦଳେ - ବାକ୍ୟଟିକୁ ଯଥାର୍ଥ କ୍ରମରେ ସଜାଅ।

- Ans
- 1. ସ୍ମୃତାବ ସହଜରେ ନାହିଁ ବଦଳେ
 - 2. ସ୍ମୃତାବ ସହଜରେ ବଦଳେ ନାହିଁ
 - 3. ସ୍ମୃତାବ ବଦଳେ ସହଜରେ ନାହିଁ
 - 4. ନାହିଁ ସ୍ମୃତାବ ସହଜରେ ବଦଳେ

Question ID : 6009291807
Status : Answered

Q.39 “ଚିନି _____ ଛେଳି ଜୁକୁର”। ଉପଯୁକ୍ତ ଶବ୍ଦଟି ବାଛି ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର।

- Ans
- 1. ଗହଣାରେ
 - 2. ସତ୍ୟରେ
 - 3. ବିଚାରରେ
 - 4. ଦୁଃଖରେ

Question ID : 6009291808
Status : Answered
Chosen Option : 4

Q.40 ଜଳରେ ମାତ୍ତା ହେଲେ ହୁଏ-

- Ans
- 1. ଜଳମାତ୍ତ
 - 2. ବଡ଼ି
 - 3. ଜଳଦାନ
 - 4. ବର୍ଷା

Question ID : 6009291818
Status : Answered
Chosen Option : 1

Section : Current Affairs & Reasoning

Q.1 Which of the following has recently (year 2020) been declared as a Ramsar site under the International Ramsar Wetland Convention?

- Ans
- 1. Lake Meteor, Maharashtra
 - 2. River Mandovi, Goa
 - 3. Chilika Lake, Odisha
 - 4. Sukhna Lake, Chandigarh

Question ID : 6009291832
Status : Answered
Chosen Option : 1

Q.2 What is the name of the digital repository of academic records of CBSE affiliated students which was launched by Central Board of Secondary Education, India in August 2018?

- Ans
- 1. National Academic Depository
 - 2. Parinam Manjusha
 - 3. Digilocker
 - 4. Shodganga

Question ID : 6009291831
Status : Answered
Chosen Option : 3

Q.3 As of October 2020, how many Indian sites are listed under UNESCO World Heritage Sites?

- Ans
- 1. 38
 - 2. 26
 - 3. 52
 - 4. 45

Q.4 Which Indian bank asked lending institutions to implement a scheme for grant of ex - gratia payment of difference between compound interest and simple interest for six months ending August 31, 2020?

- Ans
- 1. SBI
 - 2. RBI
 - 3. HDFC
 - 4. ICICI

Question ID : 6009291829
Status : Answered
Chosen Option : 2

Q.5 Who was the recipient of the International Children's Peace Prize 2020?

- Ans
- 1. Sadat Rahman
 - 2. Mohamad Al Jounde
 - 3. Neha Gupta
 - 4. Greta Thunberg

Question ID : 6009291837
Status : Answered
Chosen Option : 1

Q.6 What is 'OSIRIS - Rex' which was in the news in October 2020?

- Ans
- 1. Anti-tank missile
 - 2. Submarine
 - 3. Spacecraft
 - 4. Covid-19 vaccine

Question ID : 6009291834
Status : Answered
Chosen Option : 3

Q.7 Padma Shri awardee, Shobha Naidu, who passed away in October 2020, was a _____.

- Ans
- 1. dancer
 - 2. journalist
 - 3. politician
 - 4. poet

Question ID : 6009291842
Status : Answered
Chosen Option : 1

Q.8 Who was appointed as the first Lieutenant Governor of the union territory of Jammu and Kashmir?

- Ans
- 1. Satya Pal Malik
 - 2. Girish Chandra Murmu
 - 3. Radha Krishna Mathur
 - 4. Manoj Sinha

Question ID : 6009291853
Status : Answered
Chosen Option : 2

Q.9 United Arab Emirates (UAE) conferred the UAE's highest civilian award named _____ on Indian PM Narendra Modi in 2019.

- Ans
- 1. Order of Zayed
 - 2. Grand Collar
 - 3. Amir Abdulla Khan Award
 - 4. King Hamad Order of the Renaissance

Question ID : 6009291855

Q.10 What was the theme of World Health Day 2020?

- Ans
- 1. Safety and Health at Work Can Save Lives
 - 2. Vaccines Work for All
 - 3. Support Nurses and Midwives
 - 4. Sustaining All Life on Earth

Question ID : 6009291851
Status : Answered
Chosen Option : 3

Q.11 Which state launched the 'Mission Shakti' department for women self - help groups in 2020?

- Ans
- 1. Uttar Pradesh
 - 2. Madhya Pradesh
 - 3. Odisha
 - 4. Rajasthan

Question ID : 6009291838
Status : Answered
Chosen Option : 1

Q.12 Name the Massive Open Online Course (MOOC) platform of India.

- Ans
- 1. edX
 - 2. Course era
 - 3. Udacity
 - 4. SWAYAM

Question ID : 6009291830
Status : Answered
Chosen Option : 4

Q.13 Which nation targets to achieve Zero Carbon Emissions by 2050?

- Ans
- 1. Italy
 - 2. Japan
 - 3. China
 - 4. India

Question ID : 6009291828
Status : Answered
Chosen Option : 2

Q.14 'Strategic Arms Reduction Treaty (START II)', which was in the news in 2020 is related to:

- i) elimination of heavy intercontinental ballistic missiles
- ii) elimination of other multiple-warhead (MIRVed)
- iii) China and the US
- iv) elimination of submarines in the Indian Ocean

- Ans
- 1. i) and iv)
 - 2. iii) and iv)
 - 3. ii) and iii)
 - 4. i) and ii)

Q.15 Which organisation has released the '2020 State of Climate Services' report?

- Ans
- 1. World Food Programme
 - 2. World Metrological Organization
 - 3. Food and Agricultural Organization
 - 4. UNICEF

Question ID : 6009291844
Status : Not Answered
Chosen Option : --

Q.16 The Regional Comprehensive Economic Partnership (RCEP) is a free trade agreement between the Asia - Pacific nations. How many members does it have as of the year 2020?

- Ans
- 1. 7
 - 2. 21
 - 3. 12
 - 4. 16

Question ID : 6009291848
Status : Answered
Chosen Option : 4

Q.17 Which player has won 13 French Open Men's Singles titles as of 2020?

- Ans
- 1. Rafael Nadal
 - 2. Roger Federer
 - 3. Dominic Thiem
 - 4. Novak Djokovic

Question ID : 6009291845
Status : Answered
Chosen Option : 1

Q.18 The Nobel Prize in Physiology or Medicine 2020 was awarded jointly to Harvey J Alter, Michael Houghton and Charles M Rice for decisive contribution in:

- Ans
- 1. cells sense and adapt to oxygen availability
 - 2. cancer therapy
 - 3. blood cancer
 - 4. blood-borne hepatitis

Question ID : 6009291835
Status : Answered
Chosen Option : 4

Q.19 The Prime Minister of India launched Asia's Largest Solar plant (750 MW) on 10 July 2020 in which of the following states?

- Ans
- 1. Andhra Pradesh
 - 2. Gujarat
 - 3. Madhya Pradesh
 - 4. Uttar Pradesh

Question ID : 6009291854
Status : Answered
Chosen Option : 3

Q.20 As per the report released by World Health Organisation, which country had the highest tuberculosis (26%) burden across the globe in 2019?

- Ans
- 1. Pakistan
 - 2. South Africa
 - 3. Indonesia
 - 4. India

Q.21 Which iconic Indian superhero becomes the brand ambassador for Namami Gange Project in 2020?

- Ans
- 1. Chacha Chaudhary
 - 2. Shaktimaan
 - 3. Nagraj
 - 4. Devi

Question ID : 6009291850
Status : Answered
Chosen Option : 1

Q.22 Who won the Dadasaheb Phalke Award 2019?'

- Ans
- 1. Shashi Kapoor
 - 2. Dharmendra
 - 3. Amitabh Bachchan
 - 4. Rishi Kapoor

Question ID : 6009291852
Status : Answered
Chosen Option : 1

Q.23 In October 2020, the Finance Ministry announced that the Central Government will borrow Rs. 1.10 lakh crore on behalf of the states, to bridge the shortfall for _____.

- Ans
- 1. assistance to SDRF (State Disaster Response Fund)
 - 2. GST collections
 - 3. grants for urban local bodies
 - 4. state revenue deficit

Question ID : 6009291841
Status : Answered
Chosen Option : 2

Q.24 Indian Army has built a memorial for its personnel killed during the Galwan clash at _____.

- Ans
- 1. Siliguri
 - 2. Shillong
 - 3. Jammu
 - 4. Ladakh

Question ID : 6009291849
Status : Answered
Chosen Option : 4

Q.25 Which of the following pacts was signed in the 2 + 2 meeting between India and the US held in October 2020?

- Ans
- 1. Malabar Naval Exercise Agreement
 - 2. Logistics Exchange Memorandum of Agreement
 - 3. Basic Exchange and Cooperation Agreement
 - 4. Compatibility and Security Agreement

Question ID : 6009291827
Status : Answered
Chosen Option : 3

Q.26 The 'Kati Bihu' festival which made news headlines due to a ban by the Government of India is celebrated in the state of _____.

- Ans
- 1. Karnataka
 - 2. Assam
 - 3. Odisha
 - 4. West Bengal

Question ID : 6009291836

Q.27 Which state/ union territory was the first one to exempt road tax on its battery operated vehicles?

- Ans
- 1. Kerala
 - 2. Gujarat
 - 3. Tamil Nadu
 - 4. Delhi

Question ID : 6009291846
Status : Answered
Chosen Option : 4

Q.28 Which city was the venue of the meeting of the foreign ministers of QUAD countries held in October 2020?

- Ans
- 1. Tokyo
 - 2. New Delhi
 - 3. New York
 - 4. Sydney

Question ID : 6009291847
Status : Answered
Chosen Option : 2

Q.29 Who among the following batsmen is the fastest to score 11,000 runs in One Day International Cricket?

- Ans
- 1. Sachin Tendulkar
 - 2. Rohit Sharma
 - 3. Shikhar Dhawan
 - 4. Virat Kohli

Question ID : 6009291843
Status : Answered
Chosen Option : 4

Q.30 Which country will host G20 Summit in 2023?

- Ans
- 1. Italy
 - 2. Brazil
 - 3. India
 - 4. Saudi Arabia

Question ID : 6009291833
Status : Answered
Chosen Option : 4

Q.31 Three of the given four word-pairs are similar in a certain manner and one is different. Select the pair that is different from the rest.

- Ans
- 1. Denmark : Copenhagen
 - 2. Cuba : Havana
 - 3. Norway : Oslo
 - 4. Brazil : South America

Q.32 Two statements are given, followed by two conclusions. Take the statements to be true even if they are at variance with commonly known facts, and decide which of the conclusions follow(s) from the given statements.

Statements:

- I. All potatoes are not tomatoes.
- II. Some potatoes are onions.

Conclusions:

- I. Some onions are not tomatoes.
- II. All tomatoes are not potatoes.

- Ans
- 1. Only conclusion II follows
 - 2. Only conclusion I follows
 - 3. Both the conclusions follow
 - 4. Neither conclusion I nor II follows

Question ID : 6009291886
 Status : Answered
 Chosen Option : 1

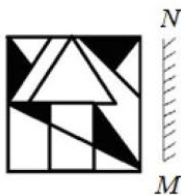
Q.33 Select the option that can replace the question mark (?) to complete the given letter-cluster series.

DWP, HSR, LOT, PKV, ?

- Ans
- 1. THX
 - 2. TGY
 - 3. TGX
 - 4. SGX

Question ID : 6009291871
 Status : Answered
 Chosen Option : 3

Q.34 Select the correct mirror image of the given figure from the following options, when the mirror is placed on the line MN.



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

Question ID : 6009291857

Q.35 Which of the following options has a similar relationship between the two words of the pair as between the words in the given pair?

Water : Drink

- Ans
- 1. Rope : Long
 - 2. Ball : Play
 - 3. Fork : Knife
 - 4. Food : Spicy

Question ID : 6009291879
Status : Answered
Chosen Option : 2

Q.36 If South - West becomes North, then what will North - West become?

- Ans
- 1. North - East
 - 2. East
 - 3. North
 - 4. South - East

Question ID : 6009291884
Status : Answered
Chosen Option : 2

Q.37 Select the option that can replace the question mark (?) to complete the given letter-pair series.

JZ, FH, BP, XX, ?

- Ans
- 1. SE
 - 2. TF
 - 3. RD
 - 4. QC

Question ID : 6009291872
Status : Answered
Chosen Option : 2

Q.38 Two statements are given, followed by two conclusions. Take the statements to be true even if they are at variance with commonly known facts, and decide which of the conclusions follow(s) from the given statements.

Statements:

- I. Some kites are eagles.
- II. Some doves are kites.

Conclusions:

- I. Some eagles are kites.
- II. Some doves are eagles.

- Ans
- 1. Only conclusion II follows
 - 2. Neither conclusion I nor II follows
 - 3. Only conclusion I follows
 - 4. Both the conclusions follow

Question ID : 6009291885

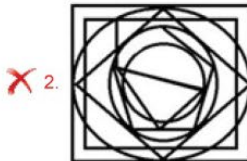
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Q.39 Select the option figure in which the given figure is embedded (rotation is NOT allowed).



Ans



Question ID : 6009291869

Status : Answered

Chosen Option : 3

Q.40 If in a certain coding language, 'EARS' is written as 'OQBI', then how will 'NOSE' be written in that language?

Ans

✗ 1. XFIO

✓ 2. XECU

✗ 3. YECX

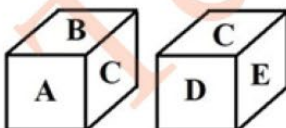
✗ 4. XFDV

Question ID : 6009291876

Status : Answered

Chosen Option : 2

Q.41 Two positions of the same dice are given. Which letter will be on the face opposite to the face having the letter C?



Ans

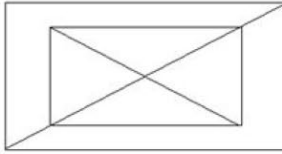
✗ 1. D

✗ 2. B

✗ 3. E

✓ 4. F

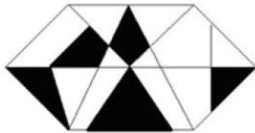
Q.42 What is the maximum number of triangles in the given figure?



- Ans
- 1. 8
 - 2. 12
 - 3. 10
 - 4. 14

Question ID : 6009291865
 Status : Answered
 Chosen Option : 3

Q.43 Which of the figures given in the options is the exact water image of the given figure?



Ans

- 1.
- 2.
- 3.
- 4.

Question ID : 6009291860
 Status : Answered
 Chosen Option : 1

Q.44 Facing towards the north, six women - Emma, Carla, Angela, Alex, Rose and Prestine - are sitting in a row of a judge's panel at a beauty pageant, but not necessarily in the same order. Emma is between Carla and Angela. Alex is at the extreme right end of the row. Prestine is to the immediate left of Alex. What is the position of Rose, if Angela and Prestine are immediate neighbours?

- Ans
- 1. At the extreme left
 - 2. Right of Carla
 - 3. At the centre
 - 4. Between Angela and Alex

Question ID : 6009291873

Q.45 Six friends, A, B, C, D, E and G, are sitting in a row, facing towards you. B is exactly between D and E. C is to the immediate left of G. A is to the immediate right of D. If E is at the extreme left of the row, then who is to the immediate left of C?

- Ans
- 1. D
 - 2. G
 - 3. B
 - 4. A

Question ID : 6009291874
 Status : Answered
 Chosen Option : 4

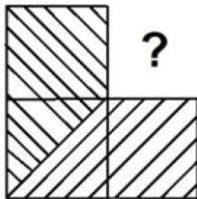
Q.46 Select the option that is related to the third word in the same way as the second word is related to the first word.

Shoes : Leather :: Furniture : ?

- Ans
- 1. Comfort
 - 2. Wood
 - 3. Room
 - 4. Table

Question ID : 6009291878
 Status : Answered
 Chosen Option : 2

Q.47 Identify the figure that can replace the question mark (?) to complete the given pattern.



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

Question ID : 6009291864
 Status : Not Answered
 Chosen Option : --

Q.48 Three of the given four options are similar in a certain manner and one is different. Select the option that is different from the rest.

- Ans
- 1. Queen
 - 2. Lion
 - 3. Tigress
 - 4. Sister

Q.49 Which of the figures given in the options is the exact water image of the given figure?

Good Luck

Ans

- ✓ 1. *Good Luck*
- ✗ 2. *Good Luck*
- ✗ 3. *Good Luck*
- ✗ 4. *Good Luck*

Question ID : 6009291859

Status : Answered

Chosen Option : 1

Q.50 Among 5 members, P, Q, R, S and T, of a certain team, each having different ages, S is only younger than Q. T is younger than P and R. Who is the youngest among them all?

Ans

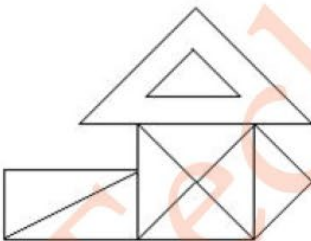
- ✗ 1. P
- ✓ 2. S
- ✗ 3. Q
- ✗ 4. R

Question ID : 6009291883

Status : Answered

Chosen Option : 2

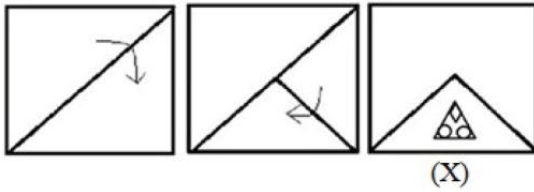
Q.51 What is the maximum number of triangles in the given figure?



Ans

- ✓ 1. 13
- ✗ 2. 16
- ✗ 3. 14
- ✗ 4. 15

Q.52 A paper has been folded and cut as shown in the following figures. Figure (X) shows the manner in which the folded paper has been cut. Select the figure that would most closely resemble the unfolded form of Figure (X).

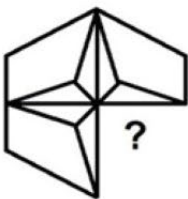


Ans

- ✓ 1.
- ✗ 2.
- ✗ 3.
- ✗ 4.

Question ID : 6009291867
 Status : Answered
 Chosen Option : 3

Q.53 Identify the figure that can replace the question mark (?) to complete the given pattern.



Ans

- ✗ 1.
- ✗ 2.
- ✗ 3.
- ✓ 4.

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Q.54 Three of the given four options are similar in a certain manner and one is different.
Select the option that is different from the rest.

- Ans
- 1. Jeans
 - 2. Shirt
 - 3. Curtains
 - 4. Jacket

Question ID : 6009291880
Status : Answered
Chosen Option : 3

Q.55 If in a certain coding language, 'HYENA' is written as 'OFLUH', then how will 'TURTLE' be written in that language?

- Ans
- 1. ABYATM
 - 2. ABYASL
 - 3. BCYBSL
 - 4. BCYBTL

Question ID : 6009291875
Status : Answered
Chosen Option : 2

Q.56 Select the option that can replace the question mark (?) to complete the given letter series.

R, W, T, R, V, M, ?

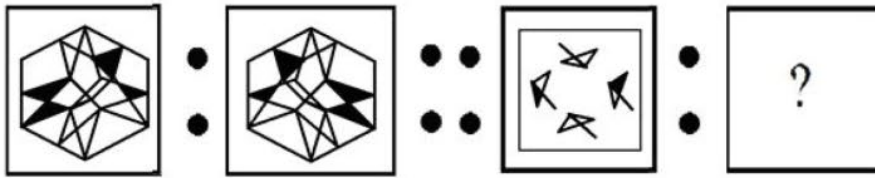
- Ans
- 1. Y
 - 2. W
 - 3. Z
 - 4. X

Question ID : 6009291870
Status : Answered
Chosen Option : 4

Q.57 If in a certain coding language, 'ROBOT' is written as '71', then how will 'FEAR' be coded in that language?

- Ans
- 1. 30
 - 2. 31
 - 3. 32
 - 4. 33

Q.58 The second figure in the first unit of the given figures bears a certain relationship to the first figure. Similarly, one of the figure from the following options bears the same relationship to the first figure in the second unit of the given figures. You have to select that figure from the options which would replace the question mark (?).

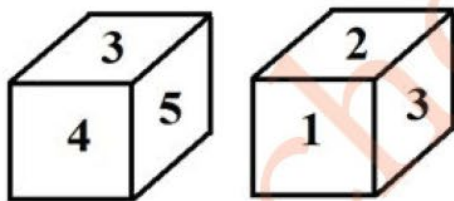


Ans

- 1.
- 2.
- 3.
- 4.

Question ID : 6009291868
 Status : Answered
 Chosen Option : 4

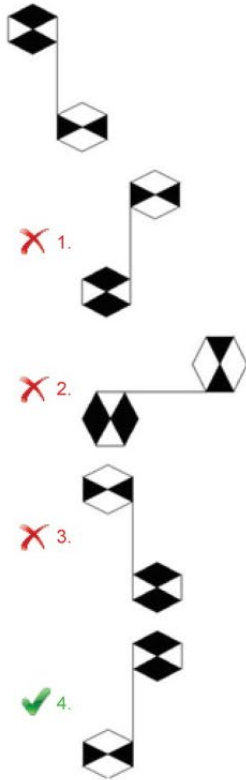
Q.59 Two positions of the same dice are given. Which number will be on the face opposite to the face having the number 5?



Ans

- 1. 4
- 2. 2
- 3. 1
- 4. 3

Q.60 Select the correct mirror image of the given figure from the following options, when the mirror is placed on the right side of the figure.



Question ID : 6009291858
Status : Answered
Chosen Option : 4

Section : Subject Content & Methodology

Q.1 If $y = e^{2x} + 1$, then find $\frac{d^2y}{dx^2}$ at $x = 0$.

- Ans
1. 5
2. 3
3. 1
4. 4

Question ID : 6009292021
Status : Answered
Chosen Option : 4

Q.2 A car is moving at uniform speed towards a tower. It takes 8 minutes for the angle of depression from the top of tower to the car to change from 30° to 45° . How long after this will the car reach the base of the tower?

- Ans
1. $\frac{2}{(\sqrt{3}-1)}$ minutes
2. $\frac{8}{(\sqrt{3}-1)}$ minutes
3. $\frac{8}{(\sqrt{3}+1)}$ minutes
4. $\frac{2}{(\sqrt{3}+1)}$ minutes

Q.3 If $x = \frac{4}{2-\sqrt{3}}$, then $x^2 - 16x + 66$ is:

- Ans
- 1. 48
 - 2. 64
 - 3. 49
 - 4. 50

Question ID : 6009292011
Status : Answered
Chosen Option : 4

Q.4 If a and b are the roots of the equation $x^2 - 11x + 30 = 0$, then what is the value of $\left(\frac{1}{a} + \frac{1}{b}\right)$?

- Ans
- 1. $\frac{19}{30}$
 - 2. $\frac{21}{30}$
 - 3. $\frac{29}{30}$
 - 4. $\frac{11}{30}$

Question ID : 6009292045
Status : Answered
Chosen Option : 4

Q.5 If $10\sin^4x + 15\cos^4x = 6$, then the value of $81\operatorname{cosec}^8x + 8\tan^6x$ is:

- Ans
- 1. 638
 - 2. 625
 - 3. 652
 - 4. 648

Question ID : 6009292065
Status : Answered
Chosen Option : 3

Q.6 Convert the number 73 to base 5.

- Ans
- 1. 143
 - 2. 141
 - 3. 241
 - 4. 243

Question ID : 6009292014
Status : Answered
Chosen Option : 4

Q.7 The value of $\binom{n}{0} + \binom{n}{1} + \binom{n}{n-1} + \binom{n}{n}$; $n > 2$ is:

- Ans
- 1. $2n + 1$
 - 2. $2n - 2$
 - 3. $2n$
 - 4. $2n + 2$

Question ID : 6009291988

Q.8 Solve:

$$4\sin^2x - 1 = 0, 0 < x < \frac{\pi}{2}$$

- Ans
- 1. $\frac{\pi}{5}$
 - 2. $\frac{\pi}{4}$
 - 3. $\frac{\pi}{6}$
 - 4. $\frac{\pi}{3}$

Question ID : 6009292018
Status : Answered
Chosen Option : 3

Q.9 If a random variable increases when other random variable decreases, their correlation coefficient will be:

- Ans
- 1. 0
 - 2. 0.5
 - 3. -0.5
 - 4. 0.7

Question ID : 6009292007
Status : Answered
Chosen Option : 3

Q.10 There are 20 students in a class and they obtained marks as given.

Marks obtained = X	15	18	22	24	28
No. of students = Y	k^2	$2k + 1$	3	4	4

How many students got marks less than 20?

- Ans
- 1. 5
 - 2. 10
 - 3. 4
 - 4. 9

Question ID : 6009292000
Status : Answered
Chosen Option : 4

Q.11 Solution of the absolute value of inequality $3|3x + 9| < 54$ is:

- Ans
- 1. $-9 < x < 3$
 - 2. $3 < x < 9$
 - 3. $-9 < x < -3$
 - 4. $-3 < x < 9$

Q.12 Three boys A, B and C take 12, 18 and 27 minutes, respectively, to complete one circular round in a race. If they all start together, after how much time will they meet again?

- Ans
- 1. 27 minutes
 - 2. 108 minutes
 - 3. 72 minutes
 - 4. 54 minutes

Question ID : 6009292012
Status : Answered
Chosen Option : 2

Q.13 $12\cos^3 \frac{\pi}{6} - 9\cos \frac{\pi}{6} = \underline{\hspace{2cm}}$.

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

Question ID : 6009292061
Status : Answered
Chosen Option : 1

Q.14 If the point $(-4, 6)$ divides internally the line segment joining the points $(-6, 10)$ and (x, y) in the ratio $2 : 7$, then find the value of $x^3 - y^3$.

- Ans
- 1. 639
 - 2. 539
 - 3. 579
 - 4. 679

Question ID : 6009292058
Status : Answered
Chosen Option : 2

Q.15 If $2x^4 - ax^3 - bx^2 + cx - 3$, divided by $x - 2$ leaves a remainder of 5, divided by $x + 2$ leaves remainder 29, what is the value of b ?

- Ans
- 1. 4
 - 2. 3
 - 3. 5
 - 4. 2

Question ID : 6009292030
Status : Answered
Chosen Option : 2

Q.16 $x^2 - 3x + |m| = 0$ has real roots. How many integer values can m take?

- Ans
- 1. 4
 - 2. 5
 - 3. 7
 - 4. 3

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<https://www.digialm.com//per/g01/pub/1258/touchstone/AssessmentQPHTMLMode1/1258O20312/1258O20312S1D84/161216606235>

Q.17 If $P(k)$ be the statement that "A set with elements has 2^k subsets", then for $P(0)$, the number of subsets are:

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

Question ID : 6009292013
Status : Answered
Chosen Option : 4

Q.18 If $(\cos A - \cos B)^2 + (\sin A - \sin B)^2 = \lambda \sin^2\left(\frac{A-B}{2}\right)$, then what is the value of λ ?

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

Question ID : 6009292062
Status : Answered
Chosen Option : 3

Q.19 If A (6, 4), B (-5, 4) and C (p, -3) are the vertices of a right angled triangle with AC hypotenuse, then $p =$ _____.

- Ans
- 1. -5
 - 2. 3
 - 3. 5
 - 4. -3

Question ID : 6009292059
Status : Answered
Chosen Option : 1

Q.20 If mean and median of a data is 28 and 20, respectively, find its mode.

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

Question ID : 6009291999
Status : Answered
Chosen Option : 2

Q.21 The sum of three distinct natural numbers is 28. What is the maximum value of their product?

- Ans
- 1. 796
 - 2. 770
 - 3. 792
 - 4. 784

Question ID : 6009292052
Status : Answered
Chosen Option : 3

Q.22 For the linear equation $x + 2y = 10$, x - intercept is:

- Ans
- 1. 7
 - 2. 15
 - 3. 10
 - 4. 5

Q.23 Find the area of a triangle having sides 5, 5 and 8 units.

- Ans
- 1. 12 unit²
 - 2. 10 unit²
 - 3. 15 unit²
 - 4. 6 unit²

Question ID : 6009291993
Status : Answered
Chosen Option : 1

Q.24 If m be the ratio of the roots of the equation $ax^2 + bx + c = 0$, then which of the following relations is true?

- Ans
- 1. $\frac{(m+1)^2}{m} = \frac{b^2}{ac}$
 - 2. $\frac{(m+1)^2}{2m} = \frac{b^2}{ac}$
 - 3. $\frac{(m-1)^2}{m} = \frac{b^2}{ac}$
 - 4. $\frac{(m+1)^2}{m} = \frac{b^2}{4ac}$

Question ID : 6009292046
Status : Answered
Chosen Option : 1

Q.25 An insect is able to go inside a hole 60% time of his trials. What is the probability of his success 2 times out of 5 trials to enter into the hole?

- Ans
- 1. $\frac{720}{625}$
 - 2. $\frac{144}{625}$
 - 3. $\frac{625}{144}$
 - 4. $\frac{154}{625}$

Question ID : 6009292006
Status : Not Answered
Chosen Option : --

Q.26 The value of $3^{37} \pmod{7}$ is:

- Ans
- 1. 2 (mod 7)
 - 2. 4 (mod 7)
 - 3. 3 (mod 7)
 - 4. 1 (mod 7)

Question ID : 6009292017

Q.27 Which of the following numbers can be converted to non-terminating decimals?

$$\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}$$

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

Question ID : 6009292008
Status : Answered
Chosen Option : 1

Q.28 A cow is tied with a rope of length 7 metres, in the centre of a rectangular field with dimensions 15×20 in metres. The cow is free to move with the tied rope to cover maximum area of the field. Find the cost of renovating the part of the field which CANNOT be covered by the cow, at ₹ 50 per square metre.

- Ans
1. ₹ 15,000
2. ₹ 7,500
3. ₹ 7,300
4. ₹ 7,700

Question ID : 6009291997
Status : Answered
Chosen Option : 3

Q.29 Three fair coins are tossed simultaneously. Let random variable X be defined as X = No. of heads + No. of tails. What is the set of all values of the random variable?

- Ans
1. {2, 3}
2. {0, 1, 2}
3. {1, 2, 3}
4. {3}

Question ID : 6009292004
Status : Answered
Chosen Option : 3

Q.30 What is the value of $x + y$ in the solution of the given equations?

$$\frac{3}{x-1} + \frac{1}{y-2} = 2 \text{ and } \frac{5}{x-1} - \frac{3}{y-2} = 3, x \neq 1, -2 \neq y$$

- Ans
1. $\frac{149}{9}$
2. $\frac{289}{9}$
3. $\frac{176}{9}$
4. $\frac{167}{9}$

Q.31 The value of $(1)^{101} + (-1)^{50} + (1)^{25} + (-1)^3$ is:

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

Question ID : 6009292010
Status : Answered
Chosen Option : 2

Q.32 What is the area of the triangle formed by the vertices (3, 1), (6, 4) and (8, 2)?

- Ans
- 1. 12 sq. units
 - 2. 11 sq. units
 - 3. 7 sq. units
 - 4. 6 sq. units

Question ID : 6009292056
Status : Answered
Chosen Option : 4

Q.33 _____ is the co-ordinate of a point on x-axis, which is a distance of 4 units from the points (4, -4).

- Ans
- 1. (-4, 0)
 - 2. (4, 0)
 - 3. (0, -4)
 - 4. (0, 4)

Question ID : 6009292054
Status : Answered
Chosen Option : 2

Q.34 If the difference between the roots of the equation $x^2 + 2kx + 1 = 0$ is less than $2\sqrt{3}$, then _____ is the set of possible values of k .

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

Question ID : 6009292048
Status : Answered
Chosen Option : 1

Q.35 The n^{th} term of an A.P. $-3, -\frac{1}{2}, 2, \dots$ is:

- Ans
- 1. $\frac{(4n - 17)}{2}$
 - 2. $\frac{(5n - 11)}{2}$
 - 3. $\frac{(3n - 19)}{2}$
 - 4. $\frac{(7n - 13)}{2}$

Q.36 If $y = 5 \log x^x$, then $\frac{dy}{dx}$ is:

- Ans
- 1. $5(1 - 2\log x)$
 - 2. $5(1 + \log x)$
 - 3. $5(1 - \log x)$
 - 4. $5(1 + 2\log x)$

Question ID : 6009292020
Status : Answered
Chosen Option : 2

Q.37 If $X = \begin{bmatrix} 2a & 7 \\ a & 6 \end{bmatrix}$ and $X^{-1} = \begin{bmatrix} 0.6 & -0.7 \\ -0.2 & 0.4 \end{bmatrix}$, then a is:

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

Question ID : 6009292024
Status : Answered
Chosen Option : 3

Q.38 The number 718948 is divisible by:

- Ans
- 1. 3
 - 2. 4
 - 3. 5
 - 4. 7

Question ID : 6009292016
Status : Answered
Chosen Option : 2

Q.39 The quadratic polynomial whose sum of zeroes is 6 and product of zeroes is -16 is:

- Ans
- 1. $x^2 + 6x + 16$
 - 2. $x^2 + 16x - 6$
 - 3. $x^2 - 16x - 6$
 - 4. $x^2 - 6x - 16$

Question ID : 6009292026
Status : Answered
Chosen Option : 4

Q.40 What is the value of $10m^3 + 3m^2 - 5m - 279$, if $(2m, -m)$ is a solution of $15x + 13y = 51$?

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

Question ID : 6009292036

Q.41 If the points A(1,6), B(3,4) and C(k,1) are collinear, then the value of k is:

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

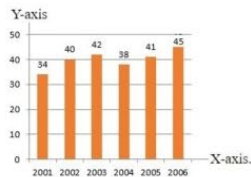
Question ID : 6009292055
Status : Answered
Chosen Option : 4

Q.42 If a, b, c are in A.P., then which of the following is NOT true?

- Ans
- 1. $\frac{1}{bc}, \frac{1}{ca}, \frac{1}{ab}$ are in A.P.
 - 2. $a^2(b+c), b^2(c+a), c^2(a+b)$ are in A.P.
 - 3. $\frac{1}{b+c}, \frac{1}{c+a}, \frac{1}{a+b}$ are in A.P.
 - 4. $\frac{1}{\sqrt{b}+\sqrt{c}}, \frac{1}{\sqrt{c}+\sqrt{a}}, \frac{1}{\sqrt{a}+\sqrt{b}}$ are in A.P.

Question ID : 6009292050
Status : Answered
Chosen Option : 3

Q.43 The given bar diagram represents the number of persons taking insurance on the Y-axis and year of purchasing the insurance policy on the X-axis.



What is the sum of the number of persons taking policies in the years when it is minimum and maximum?

- Ans
- 1. 83
 - 2. 76
 - 3. 79
 - 4. 75

Question ID : 6009292002
Status : Answered
Chosen Option : 3

Q.44 The integral $\int 6\sin^2 x dx$ is:

- Ans
- 1. $\frac{3}{2}(2x + \sin 2x)$
 - 2. $\frac{2}{3}(2x - \sin 2x)$
 - 3. $\frac{3}{2}(2x - \sin 2x)$
 - 4. $\frac{2}{3}(2x + \sin 2x)$

Q.45 The cost of 2 pens and 3 pencils is ₹ 46. The cost of 3 pens and 5 pencils is ₹ 74. Find the total cost of one pen and one pencil.

- Ans
- 1. ₹ 16
 - 2. ₹ 10
 - 3. ₹ 8
 - 4. ₹ 18

Question ID : 6009292040
Status : Answered
Chosen Option : 4

Q.46 If $\log_5 x + \log_5 (x - 24) = 2$, then find x .

- Ans
- 1. 5
 - 2. 25
 - 3. 24
 - 4. 1

Question ID : 6009292019
Status : Answered
Chosen Option : 2

Q.47 There are some squirrels and parrots in a zoo. The total number of their heads is 57 and total number of their legs is 164. Find the total number of squirrels.

- Ans
- 1. 35
 - 2. 25
 - 3. 28
 - 4. 32

Question ID : 6009292042
Status : Answered
Chosen Option : 2

Q.48 General solution of linear equation $2y + 0x + 3 = 0$ in two variables is:

- Ans
- 1. $(a, \frac{-3}{2})$, a is real
 - 2. $(0, \frac{-3}{2})$
 - 3. $(\frac{-3}{2}, b)$, b is real
 - 4. $(\frac{-3}{2}, 0)$

Question ID : 6009292035
Status : Answered
Chosen Option : 1

Q.49 Four years ago, a mother was 9 times as old as her son. Four years later her age will be 8 years more than 3 times the age of the son. Find the present ages of mother and son, respectively?

- Ans
- 1. 40 years, 9 years
 - 2. 42 years, 8 years
 - 3. 40 years, 8 years
 - 4. 42 years, 9 years

Q.50 Convert 3.262626 into a rational fraction.

- Ans
- 1. $\frac{325}{99}$
 - 2. $\frac{326}{99}$
 - 3. $\frac{323}{99}$
 - 4. $\frac{322}{99}$

Question ID : 6009292009
Status : Answered
Chosen Option : 3

Q.51 A cyclic quadrilateral PQRS with opposite sides p and r, q and s and diagonals x and y satisfy:

- Ans
- 1. $pr + qs = xy$
 - 2. $xy + qs = pr$
 - 3. $pr \times qs = xy$
 - 4. $pr + xy = qs$

Question ID : 6009291992
Status : Answered
Chosen Option : 1

Q.52 Two right triangles with length of sides 3, 4 and 5 are arranged with one common side to a quadrilateral. Find the area of the quadrilateral so formed.

- Ans
- 1. 20 unit²
 - 2. 12 unit²
 - 3. 10 unit²
 - 4. 15 unit²

Question ID : 6009291989
Status : Answered
Chosen Option : 2

Q.53 $(\log \operatorname{cosec} 1^\circ + \log \operatorname{cosec} 2^\circ + \dots + \log \operatorname{cosec} 89^\circ) + (\log \tan 1^\circ + \log \tan 2^\circ + \dots + \log \tan 89^\circ) - (\log \sec 1^\circ + \log \sec 2^\circ + \dots + \log \sec 89^\circ) = \dots$

- Ans
- 1. 0
 - 2. $\log \sqrt{2}$
 - 3. $\log 2$
 - 4. 1

Question ID : 6009292063
Status : Answered
Chosen Option : 1

Q.54 If $A \begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \end{bmatrix} = \begin{bmatrix} b_{11} & b_{12} & b_{13} \\ b_{21} & b_{22} & b_{23} \\ b_{31} & b_{32} & b_{33} \end{bmatrix}$, then order of matrix A is:

- Ans
- 1. 3×3
 - 2. 3×2
 - 3. 2×2
 - 4. 2×3

Q.55 Find the area covered by the minute hand of a clock having length 7 cm in 10 minutes.

- Ans
- 1. $\frac{70}{3} \text{ cm}^2$
 - 2. $\frac{75}{3} \text{ cm}^2$
 - 3. $\frac{3}{77} \text{ cm}^2$
 - 4. $\frac{77}{3} \text{ cm}^2$

Question ID : 6009291996
Status : Answered
Chosen Option : 4

Q.56 If $x^2 + y^2 + z^2 - xy - yz - zx = 0$, then:

- Ans
- 1. $x = y = z$
 - 2. $x = 1 = y, z = 0$
 - 3. $x \neq y, y = z$
 - 4. $x \neq y \neq z$

Question ID : 6009292028
Status : Answered
Chosen Option : 1

Q.57 What will be the minimum value of the following expression?

$$\left(\frac{q+r+s}{p} + \frac{p+r+s}{q} + \frac{p+q+s}{r} + \frac{p+q+r}{s} \right)$$

- Ans
- 1. 6
 - 2. 10
 - 3. 12
 - 4. 8

Question ID : 6009292053
Status : Not Answered
Chosen Option : --

Q.58 The arithmetic mean and geometric mean of 1 and 9 is _____ and _____, respectively.

- Ans
- 1. 3; 5
 - 2. 3; 3
 - 3. 5; 5
 - 4. 5; 3

Question ID : 6009292001
Status : Answered
Chosen Option : 4

Q.59 A boat goes 28 km upstream and 39 km downstream in 7 hours. In 9 hours, it can go 35 km upstream and 52 km downstream. Determine the speed of the boat in still water.

- Ans
- 1. 13 km/h
 - 2. 7 km/h
 - 3. 10 km/h
 - 4. 3 km/h

Question ID : 6009292043

Q.60 If random variable and corresponding probability of an experiment are tabulated as given, find the mathematical expectation $E(2X)$.

Random variable (x)	-1	0	1	2
Probability P(x)	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{1}{8}$

Ans

1. $\frac{1}{6}$

2. $\frac{1}{4}$

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

4. $\frac{1}{8}$

Question ID : 6009292005

Status : Answered

Chosen Option : 2

Q.61 A tall tree and a building are standing opposite to each other at 10 metres. The upper portion of the tree breaks off and falls on top of the building making an angle 45° . Find the length of the broken portion of the tree.

Ans

1. $5\sqrt{2}$ metres

2. $10\sqrt{3}$ metres

3. $10\sqrt{5}$ metres

4. $10\sqrt{2}$ metres

Question ID : 6009292066

Status : Answered

Chosen Option : 4

Q.62 A room consists of two windows of size 0.5×2 units and a door of 0.75×4 units. The interior walls of the room of length, width and height 12, 10 and 8 units, respectively, are to be painted at the rate of ₹ 100 per square unit. Find the total cost of painting.

Ans

1. ₹ 35,200

2. ₹ 34,700

3. ₹ 43,700

4. ₹ 23,500

Question ID : 6009291998

Status : Answered

Chosen Option : 2

Q.63 The degree of the polynomial $x(x+2)(x^3 - x + x^4 + 3)$ is:

Ans

1. 4

2. 3

3. 5

4. 6

Q.64 Two fair dice are rolled simultaneously. What is the probability that the sum on the faces obtained is 6?

Ans

1. $\frac{1}{9}$

2. $\frac{5}{36}$

3. $\frac{1}{12}$

4. $\frac{1}{6}$

Question ID : 6009292003
Status : Answered
Chosen Option : 2

Q.65 If $4x^3 + ax^2 - bx + 1 = p(x)$, then find $p(0) + p(1) + p(-1)$.

Ans

1. $2a + 3$

2. $2b - 3$

3. $2b + 3$

4. $2a - 3$

Question ID : 6009292031
Status : Answered
Chosen Option : 1

Q.66 The value of x and y which satisfies the system of equation $Qx + Ry = 2P + Q$ and

$$\left(\frac{P}{P-Q} - \frac{P}{P+Q}\right)x + \left(\frac{R}{Q-P} - \frac{R}{Q+P}\right)y = \frac{2P(2P-Q)}{P^2-Q^2} \text{ is:}$$

Ans

1. $\left(-\frac{2P}{Q}, \frac{Q}{R}\right)$

2. $\left(\frac{2P}{Q}, \frac{Q}{R}\right)$

3. $\left(-\frac{2P}{Q}, -\frac{Q}{R}\right)$

4. $\left(\frac{2P}{Q}, -\frac{Q}{R}\right)$

Question ID : 6009292039
Status : Answered
Chosen Option : 2

Q.67 For which value of p , the system of equations $x + py - 4 = 0$ and $2x + 4y - 12 = 0$ has no solution?

Ans

1. 2

2. 3

3. 0

4. 1

Q.68 $2x^4 - 3x^3 - ax^2 + bx - 2$ divided by $(x - 2)$ leaves remainder 6, divided by $(x + 3)$ leaves remainder 196. Find the remainder when it is divided by $x + 2$.

- Ans
- 1. 30
 - 2. 9
 - 3. 23
 - 4. 18

Question ID : 6009292032
Status : Answered
Chosen Option : 1

Q.69 Find a relation between x and y such that point (x, y) is equidistant from the points $(6, 5)$ and $(-4, 3)$.

- Ans
- 1. $5x + y = 9$
 - 2. $5x + y = -9$
 - 3. $5x - y = -9$
 - 4. $5x - y = 9$

Question ID : 6009292057
Status : Answered
Chosen Option : 1

Q.70 A $\triangle ABC$ has points D, E, F on the lines BC, CA and AB , respectively. Lines AD, BE and CF intersect each other at P . If $AE \times BD \times CE = 30$, then $3FB \times DC \times AE$ is:

- Ans
- 1. 60
 - 2. 30
 - 3. 90
 - 4. 50

Question ID : 6009291990
Status : Answered
Chosen Option : 3

Q.71 If $[\cdot]$ is the greatest integer function, then $[2] + [-1.5] + [-0.3] + [0.5]$ is:

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

Question ID : 6009292015
Status : Answered
Chosen Option : 2

Q.72 In a class of 60 students, 30 students passed in Mathematics and 40 passed in Science. At least how many students passed in both Mathematics and Science?

- Ans
- 1. 10
 - 2. 0
 - 3. 11
 - 4. 9

Q.73 A solid cube of side 22 cm long is melted so as to make solid spheres of radius 10 mm. How many such spheres can be made?

- Ans
- 1. 2514
 - 2. 2541
 - 3. 5082
 - 4. 5802

Question ID : 6009291994

Status : Answered

Chosen Option : 2

Q.74 Equation of straight line with slope $\frac{2}{3}$ and passing through the point $(0, \frac{5}{3})$ is:

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

Question ID : 6009292034

Status : Answered

Chosen Option : 3

Q.75 If $a + \frac{1}{a} = 8$, then find $a^4 + \frac{1}{a^4}$

- Ans
- 1. 3832
 - 2. 3896
 - 3. 3842
 - 4. 3844

Question ID : 6009292029

Status : Answered

Chosen Option : 3

Q.76 $\sin 80^\circ - \cos 80^\circ = \underline{\hspace{2cm}}$.

- Ans
- 1. $\sqrt{2} \sin 55^\circ$
 - 2. $\sqrt{3} \sin 35^\circ$
 - 3. $\sqrt{3} \sin 55^\circ$
 - 4. $\sqrt{2} \sin 35^\circ$

Q.77 Match the columns.

(1) $x + 2y = 4$ $2x + 4y = 12$	a) Unique solution
(2) $x - 2y = 0$ $3x + 4y = 20$	b) Infinitely many solutions
(3) $5x + 2y = 10$ $10x + 4y = 20$	c) No solution

- Ans
- 1. 1 - c, 2 - a, 3 - b
 - 2. 1 - a, 2 - c, 3 - b
 - 3. 1 - a, 2 - b, 3 - c
 - 4. 1 - c, 2 - b, 3 - a

Question ID : 6009292038
Status : Answered
Chosen Option : 1

Q.78 Let P be a point on the circumcircle of a ΔABC such that Z, Y, X are the closest points to P on the lines AB, AC and BC respectively. If $XZ : ZY = 2 : 5$ and $XY = 21$, then YZ is:

- Ans
- 1. 15
 - 2. 6
 - 3. 18
 - 4. 12

Question ID : 6009291991
Status : Not Answered
Chosen Option : --

Q.79 If the radius and height of a right circular cone is reduced by $\frac{1}{3}$ times and $\frac{1}{5}$ times respectively, then the volume of the cone is reduced by _____ times.

- Ans
- 1. $\frac{1}{45}$
 - 2. $\frac{1}{75}$
 - 3. $\frac{1}{15}$
 - 4. $\frac{1}{30}$

Question ID : 6009291995
Status : Answered
Chosen Option : 1

Q.80 Let A be 3×3 matrix satisfying $A \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix} = \begin{bmatrix} 2 \\ 3 \\ 7 \end{bmatrix}$, $A \begin{bmatrix} 1 \\ -1 \\ 0 \end{bmatrix} = \begin{bmatrix} -2 \\ 1 \\ -2 \end{bmatrix}$ and $A \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix} = \begin{bmatrix} 5 \\ 9 \\ 18 \end{bmatrix}$, then the sum of the diagonal entries of A is:

- Ans
- 1. 12
 - 2. 6
 - 3. 9
 - 4. 15

Question ID : 6009292005

Q.81 Which of the following is NOT an objective of Mathematics Laboratory?

- Ans
- 1. To study mathematical process rather than mathematical facts
 - 2. To compel learners to spend more time in mathematics
 - 3. To develop the habit of inquiry in learners
 - 4. To develop exploration and creativity in learners

Question ID : 6009292069
Status : Answered
Chosen Option : 2

Q.82 Which of the following is NOT an element of collaborative learning in mathematics?

- Ans
- 1. Individual Accountability
 - 2. Group Processing
 - 3. Positive Interdependence
 - 4. Face - to - Face Promotive Interaction

Question ID : 6009292076
Status : Answered
Chosen Option : 3

Q.83 _____ is NOT the focus and content of Mathematics Portfolio.

- Ans
- 1. Mathematical connections
 - 2. Students' physical growth
 - 3. Problem solving process
 - 4. Students' thinking

Question ID : 6009292080
Status : Answered
Chosen Option : 2

Q.84 ICON Models are based on:

- Ans
- 1. cognitivist approach
 - 2. constructivist approach
 - 3. idealistic approach
 - 4. behaviourist approach

Question ID : 6009292085
Status : Answered
Chosen Option : 2

Q.85 Which of the following instructional materials is NOT used as a model in mathematics teaching?

- Ans
- 1. Table
 - 2. Geometrical shapes
 - 3. Textbook
 - 4. Graph

Question ID : 6009292070
Status : Answered
Chosen Option : 3

Q.86 _____ objective is categorised under cognitive aspect.

- Ans
- 1. Naturalisation
 - 2. Valuing
 - 3. Receiving
 - 4. Application

Q.87 Which of the following is NOT a part of 5E Instructional Model?

- Ans
- 1. Engagement
 - 2. Elaboration
 - 3. Execution
 - 4. Exploration

Question ID : 6009292068
Status : Answered
Chosen Option : 3

Q.88 Which of the following is NOT true for group work in mathematics?

- Ans
- 1. Learn to respect others' opinions
 - 2. Learn to help each other
 - 3. Overcome the fear of making mistakes
 - 4. Loose self - confidence

Question ID : 6009292084
Status : Answered
Chosen Option : 4

Q.89 What does Discovery Learning NOT promote?

- Ans
- 1. Sense of Dependence
 - 2. Creativity
 - 3. Curiosity
 - 4. Active Inquiry

Question ID : 6009292075
Status : Answered
Chosen Option : 1

Q.90 Which of the following is NOT a characteristic of Constructive Approach?

- Ans
- 1. Deliberate behaviours are reinforced through consequences.
 - 2. Learning is best done through socially interactive process.
 - 3. Learning takes place in the personal zone of cognitive development between what is already known and what is desired to be known.
 - 4. Students construct their own knowledge and form meaning based on their experience.

Question ID : 6009292071
Status : Answered
Chosen Option : 1

Q.91 Which of the following is NOT a role of teachers in a constructivist classroom?

- Ans
- 1. Coaching
 - 2. Modelling
 - 3. Imitating
 - 4. Scaffolding

Question ID : 6009292082
Status : Answered
Chosen Option : 1

Q.92 _____ is about breaking a problem into pieces and looking at them individually;
_____ is about putting ideas and information together to see an overall pattern of
how ideas come together for the solution.

- Ans
- 1. Analysis; synthesis
 - 2. Inductive; deductive
 - 3. Observation; conclusion
 - 4. Concrete; abstract

Q.93 Which of these pairs is NOT a type of assessment?

- Ans
- 1. Diagnostic and I positive assessment
 - 2. Open and Closed assessment
 - 3. Norm - Reference and Criteria-Reference assessment
 - 4. Formative and Summative assessment

Question ID : 6009292072
Status : Answered
Chosen Option : 2

Q.94 A child measures each and every triangle and concludes that, "Sum of angles of a triangle is equal to 180 degrees". It is an example of which approach of learning mathematics?

- Ans
- 1. Direct
 - 2. Game-based
 - 3. Inductive
 - 4. Deductive

Question ID : 6009292073
Status : Answered
Chosen Option : 3

Q.95 Which of the following is NOT a Hands - on Math Activity?

- Ans
- 1. Field Trail
 - 2. Tower of Hanoi
 - 3. L - Game
 - 4. Soma's Cube

Question ID : 6009292078
Status : Not Answered
Chosen Option : --

Q.96 Choose the correct sequence of steps in Guided Discovery from the given options.

- 1- Clean up and care of materials
- 2- Sharing exploratory work
- 3- Generating and modelling students' ideas
- 4- Exploration and experimentation
- 5- Introduction and naming

- Ans
- 1. 1, 2, 3, 4, 5
 - 2. 5, 4, 3, 2, 1
 - 3. 5, 3, 4, 2, 1
 - 4. 1, 5, 2, 3, 4

Question ID : 6009292079
Status : Not Answered
Chosen Option : --

Q.97 Mathematics Laboratory is NOT a place where one can find a collection of:

- Ans
- 1. furniture
 - 2. other teaching and learning material
 - 3. puzzles
 - 4. games

Q.98 Which statement among the following is NOT true about the Problem -Solving Method for Teaching Mathematics?

- Ans
- 1. It is suitable for students of all levels.
 - 2. It promotes analytical and critical thinking in students.
 - 3. It is a scientific and psychological method.
 - 4. It is useful in collaborative learning.

Question ID : 60
Status : A
Chosen Option : 1

Q.99 Which of the following is NOT a supplementary text material in mathematics learning?

- Ans
- 1. Teacher's handbook
 - 2. Mathematics laboratory manual
 - 3. Reference book
 - 4. Textbook

Question ID : 60
Status : N
Chosen Option : --

Q.100 Discovery learning is a method of _____ instruction.

- Ans
- 1. direct
 - 2. field
 - 3. indirect
 - 4. semi - direct

Question ID : 60
Status : A
Chosen Option : 4