

OAVS PGT

**Previous Year Paper
(Maths) 03 Apr, 2022**





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ODISHA ADARSHA VIDYALAYA SANGATHAN

Participant ID	
Participant Name	
Test Center Name	
Test Date	03/04/2022
Test Time	2:20 PM - 5:40 PM
Subject	PGT MATHEMATICS

Section : Language Proficiency Test

Q.1 The given sentence is grammatically incorrect. Select the grammatically correct sentence from the given options.

Never been there has quite like this a disaster.

- Ans
- ✗ 1. Quite like this a disaster there has never been.
 - ✗ 2. A disaster quite like this has never there been.
 - ✓ 3. There has never been a disaster quite like this.
 - ✗ 4. There has never been a disaster like this quite.

Question ID : 9679477242
Status : Not Answered
Chosen Option : --

Q.2 Select the correctly spelt word.

- Ans
- ✓ 1. Strategy
 - ✗ 2. Compresed
 - ✗ 3. Equipment
 - ✗ 4. Contamplation

Question ID : 9679477235
Status : Answered
Chosen Option : 1

Q.3 Select the most appropriate option to fill in the blanks.

We are getting late___ the show. The show will start___ the time we reach.

- Ans
- ✓ 1. for; by
 - ✗ 2. by; for
 - ✗ 3. from; in
 - ✗ 4. by; by

Question ID : 9679477227
Status : Answered
Chosen Option : 1

Q.4 Select the most appropriate synonym of the given word.

Proclaim

- Ans
- ☒ 1. Hide
 - ☐ 2. Announce
 - ☒ 3. Deny
 - ☒ 4. Cover

Question ID : 9679477230
Status : Answered
Chosen Option : 2

Q.5 Select the INCORRECTLY spelt word.

- Ans
- ☒ 1. Rhythm
 - ☐ 2. Existance
 - ☒ 3. Fascinating
 - ☒ 4. Warriors

Question ID : 9679477234
Status : Answered
Chosen Option : 2

Q.6 Select the most appropriate ANTONYM of the given word.

Stately

- Ans
- ☒ 1. Imperial
 - ☒ 2. Grand
 - ☒ 3. Ceremonial
 - ☐ 4. Unimpressive

Question ID : 9679477233
Status : Not Answered
Chosen Option : --

Q.7 Select the option that can be used as a one-word substitute for the given group of words.

Desire to cause harm to a person

- Ans
- ☐ 1. Malice
 - ☒ 2. Insult
 - ☒ 3. Rebuke
 - ☒ 4. Kindness

Question ID : 9679477238
Status : Answered
Chosen Option : 1

Q.8 The given sentence is grammatically incorrect. Select the grammatically correct sentence from the given options.

Often called tidal waves are tsunamis although connected to tides they are not.

- Ans
- ☒ 1. tsunamis are often although called tidal waves, they are not connected to tides.
 - ☒ 2. Although tsunamis are often called tidal waves, they are not connected to tides.
 - ☒ 3. Often are called tidal waves although tsunamis, they are not connected to tides.
 - ☒ 4. Although tsunamis are often called connected to tides, they are not tidal waves.

Question ID : 9679477243
Status : Answered
Chosen Option : 2

Q.9 Select the option that expresses the given sentence in active voice.

I was gifted a cycle by my sister.

- Ans
- ☒ 1. My sister gifted a cycle to me.
 - ☒ 2. My sister has gifted a cycle to me.
 - ☒ 3. My sister is gifting a cycle to me.
 - ☒ 4. My sister will gift a cycle to me.

Question ID : 9679477239
Status : Answered
Chosen Option : 1

Q.10 Select the most appropriate option to fill in the blanks.

He is_____ smart_____ handsome.

- Ans
- ☒ 1. not only; but also
 - ☒ 2. neither; or
 - ☒ 3. both; but
 - ☒ 4. either; or

Question ID : 9679477229
Status : Answered
Chosen Option : 1

Q.11 Select the option that expresses the given sentence in direct speech.

The child exclaimed that the garden was beautiful.

- Ans
- ☒ 1. The child said, "What a beautiful garden?"
 - ☒ 2. The child said, "What a beautiful garden.
 - ☒ 3. The child said, "What a beautiful garden!"
 - ☒ 4. The child said, "This is a beautiful garden."

Question ID : 9679477241
Status : Answered
Chosen Option : 3

Q.12 Select the most appropriate meaning of the underlined idiom.

Don't invite Sumit to the party, he is a bit of a wet blanket.

- Ans
- ☒ 1. A very talkative person
 - ☒ 2. An arrogant person
 - ☒ 3. An introvert
 - ☒ 4. Boring, dull person

Question ID : 9679477236
Status : Answered
Chosen Option : 3

Q.13 Select the option that can be used as a one-word substitute for the given group of words.

Study of rocks and soil

- Ans
- ☒ 1. Gemology
 - ☒ 2. Geography
 - ☒ 3. Geology
 - ☒ 4. Gerontology

Question ID : 9679477237
Status : Answered
Chosen Option : 3

Q.14 Select the most appropriate ANTONYM of the given word.

Officious

- Ans
- ☒ 1. Meddlesome
 - ☒ 2. Modest
 - ☒ 3. Interfering
 - ☒ 4. Dictatorial

Question ID : 9679477232
Status : Not Answered
Chosen Option : --

Q.15 Select the option that expresses the given sentence in indirect speech.

I said to my brother, "Are you going to have lunch with me?"

- Ans
- ☒ 1. I asked my brother if he had lunch with me.
 - ☒ 2. I asked my brother if he was going to have lunch with me.
 - ☒ 3. I asked my brother if I was going to have lunch with him.
 - ☒ 4. I asked my brother if you were going to have lunch with me.

Question ID : 9679477240
Status : Answered
Chosen Option : 2

Q.16 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

I didn't knew/ that your/ father has/ retired.

- Ans
- ✗ 1. father has
 - ✗ 2. that your
 - ✓ 3. I didn't knew
 - ✗ 4. retired.

Question ID : 9679477225
Status : Answered
Chosen Option : 3

Q.17 Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement required'.

She fought for her rightful place in the society single-handedly.

- Ans
- ✗ 1. honest area
 - ✓ 2. No improvement required
 - ✗ 3. legal placement
 - ✗ 4. right place

Question ID : 9679477244
Status : Not Answered
Chosen Option : --

Q.18 Select the most appropriate synonym of the given word.

Segregate

- Ans
- ✗ 1. Connect
 - ✓ 2. Separate
 - ✗ 3. Join
 - ✗ 4. Link

Question ID : 9679477231
Status : Not Answered
Chosen Option : --

Q.19 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

If you will not / work hard / you will not do well / in the exams.

- Ans
- ✗ 1. you will not do well
 - ✓ 2. If you will not
 - ✗ 3. work hard
 - ✗ 4. in the exams.

Question ID : 9679477226
Status : Answered
Chosen Option : 1

Q.20 Select the most appropriate option to fill in the blanks.

Let ____ do ____ work ____.

- Ans
- ✗ 1. him; yours; himself
 - ✗ 2. he; your; yourself
 - ✓ 3. him; his; himself
 - ✗ 4. he; his; himself

Question ID : 9679477228
Status : Answered
Chosen Option : 3

Q.21 'ପୂଣ୍ୟ ଅଟେ ଅହନ୍' ବିଗ୍ରହ ବାକ୍ୟକୁ ଏକ ପଦରେ ପ୍ରକାଶ କଲେ କଣ ହେବ ?

- Ans
- ✗ 1. ପୂଣ୍ୟାହନ୍
 - ✗ 2. ପୂଣ୍ୟାତ୍ମା
 - ✓ 3. ପୂଣ୍ୟାହ
 - ✗ 4. ମହାପୂଣ୍ୟ

Question ID : 9679477251
Status : Answered
Chosen Option : 2

Q.22 ନିମ୍ନଲିଖିତ ଶବ୍ଦମାନଙ୍କ ଭିତରୁ କେଉଁଟି ଅଶୁଦ୍ଧ ?

- Ans
- ✗ 1. ମରୁଦ୍ଧ୍ୟାନ
 - ✗ 2. ବାତାୟନ
 - ✓ 3. ଯାନବାହାନ
 - ✗ 4. ବ୍ୟୋମୋଯାନ

Question ID : 9679477246
Status : Answered
Chosen Option : 3

Q.23 ଆମ୍ଭ ଗାଈ ଚୋରାଛୁଆ ଲୋକଟିକୁ ପୋଲିସ୍ ଧରିଅଛି ।- ଏହି ବାକ୍ୟରେ ରେଖାଙ୍କିତ ଅଂଶଟି କି ପ୍ରକାର ବାକ୍ୟାଂଶ ?

- Ans
- ✗ 1. ନାମ ବିଶେଷଣାଂଶ
 - ✓ 2. ବିଶେଷ୍ୟ ସ୍ଥାନାଂଶ
 - ✗ 3. କ୍ରିୟା ବିଶେଷଣାଂଶ
 - ✗ 4. ବିଶେଷଣାଂଶ

Question ID : 9679477260
Status : Answered
Chosen Option : 1

Q.24 କରୋନା ମହାମାରୀ ଆମକୁ ପରିସାର ପରିଚ୍ଛନ୍ନତା ବିଷୟରେ ସଚେତନ କରିଛି ।- ଏ ବାକ୍ୟରେ କେଉଁ ଶବ୍ଦଟି ଅଶୁଦ୍ଧ ?

- Ans
- ✓ 1. ପରିସାର
 - ✗ 2. ମହାମାରୀ
 - ✗ 3. ସଚେତନ
 - ✗ 4. କରୋନା

Question ID : 9679477248
Status : Answered
Chosen Option : 1

Q.25 'ବନବାସୀ ରାମ ଓ ସୁଗ୍ରୀବଙ୍କ ପ୍ରଗାଢ଼ ମୈତ୍ରତା ଥିଲା ।'- ଏ ବାକ୍ୟରେ କେଉଁ ଶବ୍ଦଟି ଭୁଲ ?

- Ans
- ✗ 1. ସୁଗ୍ରୀବ
 - ✗ 2. ପ୍ରଗାଢ଼
 - ✓ 3. ମୈତ୍ରତା
 - ✗ 4. ବନବାସୀ

Question ID : 9679477247
Status : Answered
Chosen Option : 3

Q.26 ଯେଉଁମାନେ ସାର୍ଥତ୍ୟାଗ କରି ଦେଶସେବାରେ ଆତ୍ମବଳିଦାନ ଦିଅନ୍ତି, ସେମାନେ ଆମର ପୂଜ୍ୟାସ୍ବଦ ।- ଏ ବାକ୍ୟରେ କେଉଁ ଶବ୍ଦଟି ଅଶୁଦ୍ଧ ?

- Ans
- ✗ 1. ସାର୍ଥତ୍ୟାଗ
 - ✓ 2. ପୂଜ୍ୟାସ୍ବଦ
 - ✗ 3. ଆତ୍ମବଳି
 - ✗ 4. ଦେଶସେବାରେ

Question ID : 9679477245
Status : Answered
Chosen Option : 2

Q.27 'ଜନ୍ମ କରିବାର ଇଚ୍ଛା' - କୁ ଏକ ପଦରେ ପ୍ରକାଶ କଲେ କଣ ହେବ ?

- Ans
- ✗ 1. ଜିଗମିଷା
 - ✗ 2. ଜିଜ୍ଞାସା
 - ✗ 3. ଜନ୍ୟାଷା
 - ✓ 4. ଜିଗାଷା

Question ID : 9679477250
Status : Answered
Chosen Option : 4

Q.28 ମୁଁ ତାଙ୍କ ପଛେ ପଛେ ଗମନ କଲି ।- ଏ ବାକ୍ୟର ରେଖାଙ୍କିତ ପଦଗୁଡ଼ିକ ବଦଳରେ କଣ ଲେଖା ଯାଇପାରେ ?

- Ans
- ☒ 1. ଅନୁଗାମୀ
 - ☒ 2. ଅନୁଗମନ
 - ☒ 3. ପଛଗମନ
 - ☒ 4. ଅନୁସରଣ

Question ID : 9679477252
Status : Not Answered
Chosen Option : --

Q.29 'ପିଇବାକୁ ଲୁଚାଇକରୁଥିବା ବ୍ୟକ୍ତିକୁ ଜଳଦାନ କର ।'- ଏହି ବାକ୍ୟଟିକୁ ସଂକ୍ଷେପ କଲେ କଣ ହେବ ?

- Ans
- ☒ 1. ଜଳଦାନ କରି ପୂଣ୍ୟ ଅର୍ଜନ କର ।
 - ☒ 2. ବୁଦ୍ଧିକୁ ଜଳଦାନ କର ।
 - ☒ 3. ପିଇଥିବା ଲୋକକୁ ଜଳଦାନ କର ।
 - ☒ 4. ପିପାସୁକୁ ଜଳଦାନ କର ।

Question ID : 9679477262
Status : Answered
Chosen Option : 4

Q.30 ଉପଯୁକ୍ତ ଶବ୍ଦ ବାଛି ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର- ବଇବ ବଉଡ଼ି _____ ଗାଈ ।

- Ans
- ☒ 1. ମଣିଷ
 - ☒ 2. ଗର୍ଭିଣୀ
 - ☒ 3. ବୁଢ଼ାଳି
 - ☒ 4. ଓଲଟା

Question ID : 9679477253
Status : Answered
Chosen Option : 1

Q.31 'ସେ ନିଶ୍ଚୟ ଆସିବେ'- ଏହାର ବାଚ୍ୟ ପରିବର୍ତ୍ତନ କର ।

- Ans
- ☒ 1. ତାକୁ ନିଶ୍ଚୟ ଆସିବାକୁ ହେବ ।
 - ☒ 2. ସେ ଆସିବାକୁ ଅପେକ୍ଷା କର ।
 - ☒ 3. ଦେଖାଯାଉ, ସେ ଆସୁଛନ୍ତି କି ନାହିଁ ।
 - ☒ 4. ସେ ଯେ ଆସିବ, ଏକଥା ନିଶ୍ଚିତ ।

Question ID : 9679477263
Status : Answered
Chosen Option : 1

Q.32 ଉପାଦାନ ବାକ୍ୟ, ଉପବାକ୍ୟ, ଆନୁସାଙ୍ଗିକ ବାକ୍ୟ ନାମରେ କିଏ ପରିଚିତ ?

- Ans
- ✓ 1. ଖଣ୍ଡବାକ୍ୟ
 - ✗ 2. ବାକ୍ୟାଂଶ
 - ✗ 3. ମିଶ୍ରବାକ୍ୟ
 - ✗ 4. ସରଳ ବାକ୍ୟ

Question ID : 9679477261
Status : Not Answered
Chosen Option : --

Q.33 'ବିଅଁ ଗଢୁ ଗଢୁ ମାଙ୍କଡ଼' ଗୁଡ଼ିଚି କେଉଁ ଅର୍ଥ ପ୍ରକାଶ କରେ ?

- Ans
- ✗ 1. ବଂଶରେ କେହି ନରହିବା
 - ✗ 2. ବିନା ବ୍ୟୟରେ ଦେବତା ପୂଜା କରିବା
 - ✓ 3. ଭଲ କାମକୁ ବିକୃତ କରିବା
 - ✗ 4. ମାଙ୍କଡ଼କୁ ପୂଜା କରିବା

Question ID : 9679477259
Status : Answered
Chosen Option : 3

Q.34 ଗୋପାଳ କହିଲା, "ଆମର ଗାଈ ଦୁହାଁ ହେଉଛି ।" ଏହାକୁ ପରୋକ୍ଷ ଭାବରେ ପରିଣତ କର ।

- Ans
- ✗ 1. ଗୋପାଳର ଗାଈକୁ କିଏ ଦୁହାଁ ପାରିବ ?
 - ✗ 2. ଗୋପାଳ କହିଲା ଆମର ଗାଈ ଦୁହାଁଲିଆ ।
 - ✓ 3. ଗୋପାଳ କହିଲା ଯେ ତାଙ୍କର ଗାଈ ଦୁହାଁ ହେଉଥିଲା ।
 - ✗ 4. ଗୋପାଳ କଥାରେ ବିଶ୍ୱାସ କରନାହିଁ ।

Question ID : 9679477264
Status : Answered
Chosen Option : 3

Q.35 ନିମ୍ନଲିଖିତ ଶବ୍ଦମାନଙ୍କ ଭିତରୁ କେଉଁଟି ଶୁଦ୍ଧ ?

- Ans
- ✓ 1. ଆତ୍ମାୟ
 - ✗ 2. ଅଭୁତୀ
 - ✗ 3. ଆତ୍ମାଳ
 - ✗ 4. ବାହୁତ

Question ID : 9679477249
Status : Answered
Chosen Option : 1

Q.36 ଉପଯୁକ୍ତ ଶବ୍ଦ ବାଛି ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର- ସେ ଡରରେ _____ ହୋଇଗଲା ।

- Ans
- ☒ 1. ଶେତା
 - ☒ 2. ଗୁଣ୍ଡି
 - ☒ 3. କାଠ
 - ☒ 4. ବଙ୍କା

Question ID : 9679477254
Status : Answered
Chosen Option : 3

Q.37 ନିମ୍ନୋକ୍ତ କେଉଁ ଶବ୍ଦଟି 'ପବନ' ଶବ୍ଦର ପ୍ରତିଶବ୍ଦ ?

- Ans
- ☒ 1. ପ୍ରଭାତ
 - ☒ 2. ବିଭାବରୀ
 - ☒ 3. ବାତାୟନ
 - ☒ 4. ବଳାହକ

Question ID : 9679477256
Status : Not Answered
Chosen Option : --

Q.38 କେଉଁ ଶବ୍ଦଟି 'ପଦ୍ମ' ଶବ୍ଦର ସମାର୍ଥବାଚକ ଶବ୍ଦ ?

- Ans
- ☒ 1. ନଳିନୀ
 - ☒ 2. ଚନ୍ଦିନୀ
 - ☒ 3. ଅନିଲ
 - ☒ 4. ଅଚଳା

Question ID : 9679477257
Status : Answered
Chosen Option : 1

Q.39 'ପ୍ରତ୍ୟୁଷ' ଶବ୍ଦର ବିପରୀତାର୍ଥବୋଧକ ଶବ୍ଦଟି କଣ ?

- Ans
- ☒ 1. ପ୍ରତ୍ୟୁଷ
 - ☒ 2. ପ୍ରବୋଷ
 - ☒ 3. ପ୍ରଭାତ
 - ☒ 4. ଉଷା

Question ID : 9679477258
Status : Answered
Chosen Option : 2

Q.40 ଉପଯୁକ୍ତ ଶବ୍ଦ ସାହାଯ୍ୟରେ ଶୂନ୍ୟସ୍ଥାନ ପୂରଣ କର- ଅଧର୍ମ _____ ବଢ଼େ ବହୁତ , ଗଲାବେଳେ ଯାଏ ମୂଳ ସହିତ ।

- Ans
- ☒ 1. ପୁଣ୍ୟ
 - ☒ 2. ବୃଷି
 - ☒ 3. ବିଭ୍ର
 - ☒ 4. ଭାନ

Question ID : 9679477255
Status : Answered
Chosen Option : 3

Section : Current Affairs & Reasoning

Q.1 Who among the following was appointed as the Vice-Chief of Army Staff on 25th January 2022?

- Ans
- ☒ 1. Lieutenant General CP Mohanty
 - ☒ 2. Lieutenant General Manoj Pande
 - ☒ 3. Lieutenant General Yogendra Dimri
 - ☒ 4. Lieutenant General Raj Shukla

Question ID : 9679477271
Status : Answered
Chosen Option : 2

Q.2 According to the National Air Sports Policy (NASP 2022), which of the following will provide the training for the sports activities like aerobatics, aeromodelling, amateur-built and experimental aircraft etc.?

- Ans
- ☒ 1. Army Sports Institute
 - ☒ 2. Indian Air Force
 - ☒ 3. Sport Authority of India
 - ☒ 4. Air Sports Federation of India

Question ID : 9679477294
Status : Answered
Chosen Option : 4

Q.3 In September 2021, Nepal's Prime Minister announced the formation of a committee to 'study' the border dispute between Nepal and China in Humla to study the alleged construction of _____ by the Chinese side on Nepali territory.

- Ans
- ☒ 1. 11 houses
 - ☒ 2. 15 houses
 - ☒ 3. 13 houses
 - ☒ 4. 9 houses

Question ID : 9679477272
Status : Not Answered
Chosen Option : --

Q.4 In January 2022, which Indian cricketer became the new Indian test captain after Virat Kohli?

- Ans
- ☒ 1. Hardik Pandya
 - ☒ 2. Ravichandran Ashwin
 - ☒ 3. Rohit Sharma
 - ☒ 4. Mohammed Shami

Question ID : 9679477293
Status : Answered
Chosen Option : 3

Q.5 Who won the tenth Italian Grand Prix 2021?

- Ans
- ☒ 1. Daniel Ricciardo
 - ☒ 2. Lando Norris
 - ☒ 3. George Russell
 - ☒ 4. Charles Leclerc

Question ID : 9679477265
Status : Not Answered
Chosen Option : --

Q.6 In July 2021, who virtually inaugurated India's first and only paint made from cow dung, under the brand name 'Khadi Prakritk Paint'?

- Ans
- ☒ 1. Kalraj Mishra
 - ☒ 2. Nitin Gadkari
 - ☒ 3. Amit Shah
 - ☒ 4. Ashok Gehlot

Question ID : 9679477269
Status : Not Answered
Chosen Option : --

Q.7 What is the percentage of tax on income from the transfer of digital assets in India as of February 2022?

- Ans
- ☒ 1. 30 percent
 - ☒ 2. 12 percent
 - ☒ 3. 28 percent
 - ☒ 4. 18 percent

Question ID : 9679477277
Status : Answered
Chosen Option : 1

Q.8 The Supreme Court of India has constituted a _____ to probe the security breach during the visit of Prime Minister Narendra Modi to Punjab in January 2022.

- Ans
- ☒ 1. four-member committee
 - ☒ 2. six-member committee
 - ☒ 3. five-member committee
 - ☒ 4. three-member committee

Question ID : 9679477284
Status : Not Answered
Chosen Option : --

Q.9 In February 2022, which of the following cities commissioned one of the most powerful supercomputers, called 'Param Pravega' in India?

- Ans
- ☒ 1. Bengaluru
 - ☒ 2. Noida
 - ☒ 3. Pune
 - ☒ 4. Hyderabad

Question ID : 9679477286
Status : Answered
Chosen Option : 1

Q.10 Bhavina Patel became the first Indian _____ player to win a Paralympic medal at Tokyo 2020.

- Ans
- ☒ 1. table tennis
 - ☒ 2. lawn tennis
 - ☒ 3. hockey
 - ☒ 4. badminton

Question ID : 9679477292
Status : Answered
Chosen Option : 1

Q.11 Union Minister of Education, Skill Development and Entrepreneurship Dharmendra Pradhan visited _____ and inaugurated the state-of-the-art Centre for Nanotechnology (CNT) and Centre for Indian Knowledge System (CIKS) in November 2021.

- Ans
- ☒ 1. IIT Gandhinagar
 - ☒ 2. IIT Indore
 - ☒ 3. IIT Guwahati
 - ☒ 4. IIT Dhanbad

Question ID : 9679477290
Status : Not Answered
Chosen Option : --

Q.12 The heads of the _____ space agencies signed a memorandum of understanding in March 2021, on cooperative construction of an international lunar research station.

- Ans
- ☐ 1. Japanese and Russian
 - ☐ 2. Indian and Russian
 - ☐ 3. American and Russian
 - ☒ 4. Chinese and Russian

Question ID : 9679477268
Status : Answered
Chosen Option : 2

Q.13 The Sub-mission on agricultural mechanization (SMAM) scheme grants up to 100 percent or 10 lakh as grant funding for purchase of _____ to farmers which will be applicable till March 31, 2023.

- Ans
- ☐ 1. pesticides
 - ☐ 2. farm lands
 - ☐ 3. seeds
 - ☒ 4. drones

Question ID : 9679477285
Status : Answered
Chosen Option : 1

Q.14 On 12 January 2022, the Union Minister of State for Education, launched the _____ through virtual medium to create self-motivation and awareness about sanitation.

- Ans
- ☐ 1. Swachh Vidyalaya Protsahan
 - ☐ 2. Swachh Vidyapeeth Puraskar
 - ☒ 3. Swachh Vidyalaya Puraskar
 - ☐ 4. Swachh Vidyapeeth Protsahan

Question ID : 9679477289
Status : Answered
Chosen Option : 3

Q.15 In 2021, the theme of the _____ was 'Leave No One's Health Behind: Invest in health systems for all.'

- Ans
- ☒ 1. International Universal Health Coverage Day
 - ☐ 2. World Health Organization
 - ☐ 3. Doctors for You
 - ☐ 4. Foundation for Mother and Child Health

Question ID : 9679477266
Status : Answered
Chosen Option : 2

Q.16 According to the State of Global Air 2020 Report, which country faced the highest per capita pollution exposure in the world?

- Ans
- ☒ 1. Iran
 - ☐ 2. India
 - ☒ 3. Nepal
 - ☒ 4. Bangladesh

Question ID : 9679477278
Status : Not Answered
Chosen Option : --

Q.17 Operation Sadbhawana was launched by the Indian Army in _____ in December 2020.

- Ans
- ☒ 1. Leh
 - ☒ 2. Arunachal Pradesh
 - ☒ 3. Uttarakhand
 - ☐ 4. Jammu and Kashmir

Question ID : 9679477273
Status : Answered
Chosen Option : 4

Q.18 IndusInd Bank has announced the launch of _____, whereby the deposit proceeds will be used to finance projects and firms supporting the United Nations Sustainable Development Goals (SDGs).

- Ans
- ☒ 1. 'Pink Fixed Deposits'
 - ☐ 2. 'Green Fixed Deposits'
 - ☒ 3. 'White Fixed Deposits'
 - ☒ 4. 'Yellow Fixed Deposits'

Question ID : 9679477279
Status : Not Answered
Chosen Option : --

Q.19 In January 2022, it was decided to convert 150 villages of India over 12 states into 'Villages of Excellence' with technical assistance from the government of _____.

- Ans
- ☒ 1. France
 - ☒ 2. Singapore
 - ☐ 3. Israel
 - ☒ 4. Japan

Question ID : 9679477283
Status : Answered
Chosen Option : 4

Q.20 In November 2021, the Reserve Bank of India appointed PN Raghunath, General Manager, Reserve Bank of India, as an Additional Director on the board of Ujjivan Small Finance Bank for a period of _____.

- Ans
- ☒ 1. three years
 - ☒ 2. five years
 - ☒ 3. two years
 - ☒ 4. one year

Question ID : 9679477275
Status : Not Answered
Chosen Option : --

Q.21 In which state of India, a joint military training exercise between India and Bangladesh 'SAMPRITI-IX' was conducted from 03 Feb to 16 Feb 2020?

- Ans
- ☒ 1. Mizoram
 - ☒ 2. West Bengal
 - ☒ 3. Assam
 - ☒ 4. Meghalaya

Question ID : 9679477274
Status : Answered
Chosen Option : 3

Q.22 Eminent Indian architect Balkrishna Doshi was awarded the '_____', one of the world's highest honours for architecture in December 2021.

- Ans
- ☒ 1. Architecture Master Prize
 - ☒ 2. Royal Gold Medal 2022
 - ☒ 3. Pritzker Architecture Prize
 - ☒ 4. The Aga Khan Award for Architecture

Question ID : 9679477267
Status : Not Answered
Chosen Option : --

Q.23 Which powerful tropical cyclone struck the Indian state of Gujarat, Kerala, Karnataka and Goa in May 2021?

- Ans
- ☒ 1. Cyclone Jawad
 - ☒ 2. Cyclone Gulaab
 - ☒ 3. Cyclone Yaas
 - ☒ 4. Cyclone Tauktae

Question ID : 9679477281
Status : Answered
Chosen Option : 1

Q.24 In November 2021, Ramkumar Ramanathan won the ATP80 Manama event. With which sport is he associated?

- Ans
- ☒ 1. Badminton
 - ☒ 2. Tennis
 - ☒ 3. Table Tennis
 - ☒ 4. Squash

Question ID : 9679477291
Status : Answered
Chosen Option : 2

Q.25 Who among the following doctors was honoured with the Ayurveda Ratan Award in Brussels in 2020?

- Ans
- ☒ 1. Dr. Ramakanta Panda
 - ☒ 2. Dr. Shinzo Abe
 - ☒ 3. Dr Suresh Kumar
 - ☒ 4. Dr. Partap Chauhan

Question ID : 9679477287
Status : Answered
Chosen Option : 1

Q.26 The launch of the _____Climate and Clean Energy Agenda 2030 partnership in April 2021 reiterated the commitment of both nations to work together to achieve their ambitious climate and clean energy targets and to strengthen bilateral collaborations.

- Ans
- ☒ 1. The UK-India
 - ☒ 2. France-India
 - ☒ 3. The US-India
 - ☒ 4. Russia-India

Question ID : 9679477280
Status : Answered
Chosen Option : 1

Q.27 In January 2022, the Prime Minister of India laid the foundation stone for the construction of the Manipur Institute of Performing Arts at _____, to be built at a cost of more than Rs. 240 crore, to promote the rich art and culture of Manipur.

- Ans
- ☒ 1. Gurgaon, Haryana
 - ☒ 2. Imphal, Manipur
 - ☒ 3. Gandhinagar, Gujarat
 - ☒ 4. Bengaluru, Karnataka

Question ID : 9679477270
Status : Answered
Chosen Option : 2

Q.28 The Rajya Sabha on August 11, 2021 passed _____, 2021, that seeks to restore the powers of states to have their own lists of OBCs for reservation in jobs and educational institutions.

- Ans
- ✓ 1. the Constitution 127th Amendment bill
 - ✗ 2. the Constitution 126th Amendment bill
 - ✗ 3. the Constitution 128th Amendment bill
 - ✗ 4. the Constitution 125th Amendment bill

Question ID : 9679477282
Status : Not Answered
Chosen Option : --

Q.29 On 17th December 2021, the Government of India and the Asian Development Bank (ADB) signed a \$112 million loan to set up a skill university in _____ that will strengthen industry-aligned and flexible skills education and training system in the state to promote industry-aligned skills education and training programmes.

- Ans
- ✗ 1. Mizoram
 - ✓ 2. Assam
 - ✗ 3. Sikkim
 - ✗ 4. Meghalaya

Question ID : 9679477288
Status : Not Answered
Chosen Option : --

Q.30 In December 2021, _____ received Scheduled Bank status from the Reserve Bank of India (RBI) and has been included in the Second Schedule to the Reserve Bank of India Act, 1934.

- Ans
- ✗ 1. Google Pay
 - ✓ 2. Paytm Payments Bank Limited
 - ✗ 3. Razorpay
 - ✗ 4. Payzapp

Question ID : 9679477276
Status : Answered
Chosen Option : 2

Q.31 Select the option that is related to the third number in the same way as the second number is related to the first number.

26 : 702 :: 12 : ?

- Ans
- ✓ 1. 156
 - ✗ 2. 376
 - ✗ 3. 524
 - ✗ 4. 144

Question ID : 9679477314
Status : Answered
Chosen Option : 1

Q.32 Mohit selected the 56th card from the right in a row of 100 cards. What is the position of the same card from the left?

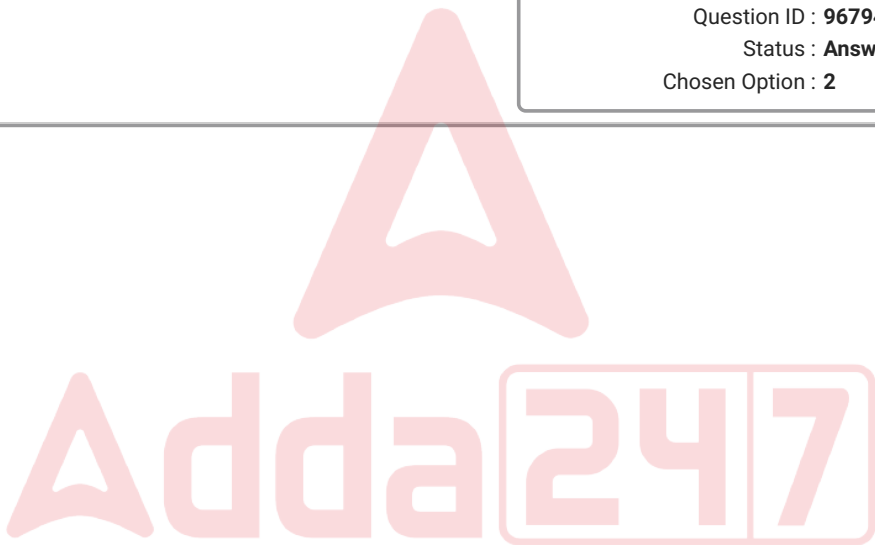
- Ans
- ☒ 1. 43rd
 - ☒ 2. 45th
 - ☒ 3. 46th
 - ☒ 4. 44th

Question ID : 9679477300
Status : Answered
Chosen Option : 2

Q.33 Amal is going to school at 9 a.m. He observes his shadow to his left. In which direction is his school from his house?

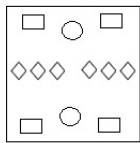
- Ans
- ☒ 1. South-west
 - ☒ 2. North
 - ☒ 3. West
 - ☒ 4. South

Question ID : 9679477313
Status : Answered
Chosen Option : 2



Q.34 If a paper is folded in a particular manner and punches and cuts are made, when unfolded, this paper appears as shown in the question figure. Select from among the given options the manner in which the paper is folded, and punches and cuts made.

Question figure:



Ans

- ✗ 1.
- ✓ 2.
- ✗ 3.
- ✗ 4.

Question ID : 9679477323

Status : Answered

Chosen Option : 2

Q.35 A, B, C, D, E, F, G and H are sitting around a circle, facing the centre. C is to the immediate right of F, who is 6th to the right of D. G is 2nd to the left of F and E is sitting in front of F. B and H are sitting just opposite to each other. H is sitting 2nd to the right of C.

Which of the following statements is NOT correct?

Ans

- ✗ 1.

D is sitting 2nd to the left of E.
- ✗ 2.

A and C are sitting opposite to each other.
- ✗ 3.

G and B are sitting next to each other.
- ✓ 4.

C is sitting to the immediate right of G.

Question ID : 9679477299

Status : Answered

Chosen Option : 4

Q.36 A, B, C, D, E, F, G and H are sitting around a circle, facing the centre. C is to the immediate right of F, who is 6th to the right of D. G is 2nd to the left of F and E is sitting in front of F. B and H are sitting just opposite to each other. H is sitting 2nd to the right of C.

Who is sitting 4th to the right of B?

- Ans**
- ☒ 1. G
 - ☒ 2. E
 - ☒ 3. H
 - ☒ 4. D

Question ID : 9679477297
Status : Answered
Chosen Option : 3

Q.37 In a certain code language, BLACK is written as GGFXP, PINK is written as UDSF, and BROWN is written as GMTRS. How will GREEN be written in that language?

- Ans**
- ☒ 1. LMJZS
 - ☒ 2. LMJYS
 - ☒ 3. LMJJS
 - ☒ 4. LMJXS

Question ID : 9679477309
Status : Answered
Chosen Option : 1

Q.38 In a group of marathon runners, a person 'X' got 112th rank from the top and 344th rank from the bottom. Calculate the total number of marathon runners.

- Ans**
- ☒ 1. 422
 - ☒ 2. 455
 - ☒ 3. 461
 - ☒ 4. 436

Question ID : 9679477301
Status : Answered
Chosen Option : 2

Q.39 Select the correct mirror image of the given word.
NOTE: Mirror is placed to the right.

BIOLOGY

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

Question ID : 9679477324
Status : Answered
Chosen Option : 4

Q.40 Select the term from among the given options that can replace the question mark (?) in the following series.

H22N, I19J, K18G, N19E, ?

- Ans
- 1. R19F
 - 2. S21F
 - 3. R22D
 - 4. S24D

Question ID : 9679477306
Status : Answered
Chosen Option : 3

Q.41 A, B, C, D, E, F, G and H are sitting around a circle, facing the centre. C is to the immediate right of F, who is 6th to the right of D. G is 2nd to the left of F and E is sitting in front of F. B and H are sitting just opposite to each other. H is sitting 2nd to the right of C.

Who is sitting to the immediate left of G?

- Ans
- 1. F
 - 2. Data is insufficient
 - 3. A
 - 4. B

Question ID : 9679477296
Status : Answered
Chosen Option : 3

Q.42 A, B, C, D, E, F, G and H are sitting around a circle, facing the centre. C is to the immediate right of F, who is 6th to the right of D. G is 2nd to the left of F and E is sitting in front of F. B and H are sitting just opposite to each other. H is sitting 2nd to the right of C.

Who is sitting 3rd to the left of C?

- Ans
- 1. E
 - 2. H
 - 3. G
 - 4. B

Question ID : 9679477298
Status : Answered
Chosen Option : 3

Q.43 Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.

- Ans
- 1. Pinterest
 - 2. Yandex
 - 3. Google
 - 4. DuckDuckGo

Question ID : 9679477317
Status : Answered
Chosen Option : 2

Q.44 Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the given equation.

72 * 12 * 5 * 35 * 7 * 58

- Ans
- ✗ 1. +, ÷, -, =, ×
 - ✗ 2. =, ×, +, ÷, -
 - ✗ 3. ×, ÷, =, -, +
 - ✓ 4. ÷, ×, +, -, =

Question ID : 9679477312
Status : Answered
Chosen Option : 4

Q.45 A certain number of people are sitting in a straight line, facing the south. A is sitting eighth from the left end of the line. Only five people are sitting between A and C. D is sitting second to the left of C. E is sitting fifth to the right of D. As many people are sitting between A and E as between E and G. F is sitting fourth to the right of G. The number of people sitting between A and D is the same as those sitting to the right of F. E is sixteenth from the right end of the line.

If H is sitting at the extreme left end, then how many people are sitting between H and C?

- Ans
- ✗ 1. 10
 - ✗ 2. 13
 - ✓ 3. 12
 - ✗ 4. 8

Question ID : 9679477303
Status : Answered
Chosen Option : 3

Q.46 A certain number of people are sitting in a straight line, facing the south. A is sitting eighth from the left end of the line. Only five people are sitting between A and C. D is sitting second to the left of C. E is sitting fifth to the right of D. As many people are sitting between A and E as between E and G. F is sitting fourth to the right of G. The number of people sitting between A and D is the same as those sitting to the right of F. E is sixteenth from the right end of the line.

How many persons are sitting in the line in total?

- Ans
- ✓ 1. 32
 - ✗ 2. 26
 - ✗ 3. 30
 - ✗ 4. 28

Question ID : 9679477302
Status : Answered
Chosen Option : 1

Q.47 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

HSD, KPI, NMN, QJS, ?

- Ans
- ✓ 1. TGX
 - ✗ 2. SHY
 - ✗ 3. SGZ
 - ✗ 4. TGV

Question ID : 9679477304
Status : Answered
Chosen Option : 1

Q.48 Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.

- Ans
- ✓ 1. Cheerless
 - ✗ 2. Gleeful
 - ✗ 3. Grinning
 - ✗ 4. Jovial

Question ID : 9679477307
Status : Answered
Chosen Option : 1

Q.49 Raman is facing west. He turns 180° in the clockwise direction and then 225° in the anti-clockwise direction, and then again 45° in the anti-clockwise direction. In which direction is he facing now?

- Ans
- ✗ 1. South-east
 - ✗ 2. South-west
 - ✗ 3. West
 - ✓ 4. South

Question ID : 9679477311
Status : Answered
Chosen Option : 4

Q.50 A, B, C, D, E, F, G and H are sitting around a circle, facing the centre. C is to the immediate right of F, who is 6th to the right of D. G is 2nd to the left of F and E is sitting in front of F. B and H are sitting just opposite to each other. H is sitting 2nd to the right of C.

Who is sitting to the immediate right of C?

- Ans
- ✗ 1. H
 - ✗ 2. B
 - ✓ 3. D
 - ✗ 4. F

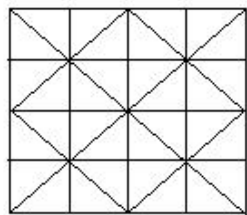
Question ID : 9679477295
Status : Answered
Chosen Option : 3

Q.51 All the opposite faces of a big cube are painted with yellow, green and purple colours, respectively. After that, the cube is cut into 64 small equal cubes. Now, how many small cubes are there whose three faces are coloured?

- Ans
- ✗ 1. 12
 - ✗ 2. 24
 - ✓ 3. 8
 - ✗ 4. 16

Question ID : 9679477321
Status : Answered
Chosen Option : 3

Q.52 How many squares are there in the following figure?



- Ans
- ✗ 1. 33
 - ✗ 2. 30
 - ✓ 3. 35
 - ✗ 4. 28

Question ID : 9679477319
Status : Answered
Chosen Option : 3

Q.53 Four alphanumeric-clusters have been given, out of which three are alike in some manner and one is different. Select the alphanumeric-cluster that is different.

- Ans
- ✗ 1. 18R
 - ✗ 2. 7G
 - ✓ 3. 16Q
 - ✗ 4. 12L

Question ID : 9679477315
Status : Answered
Chosen Option : 3

Q.54 Read the given statement and conclusions carefully and decide which of the conclusions logically follow(s) from the statement.

Statement:
The employees of private organisations have more professionalism than the employees of government organisations.

Conclusions:
I. The government should sell all the government organisations to convert them into private organisations.
II. The responsible authorities should take proper steps to improve professionalism in government employees.

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

Question ID : 9679477308
Status : Not Answered
Chosen Option : --

Q.55 In the year 1948, the first day of February was Sunday. What was the day on 1st February in 1952?

- Ans
- ✗ 1. Saturday
 - ✗ 2. Monday
 - ✓ 3. Friday
 - ✗ 4. Sunday

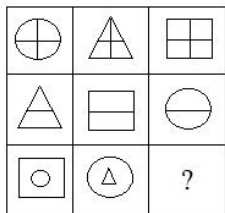
Question ID : 9679477305
Status : Answered
Chosen Option : 3

Q.56 If BUS is called RICKSHAW, RICKSHAW is called CAR, CAR is called MOTORCYCLE, MOTORCYCLE is called AEROPLANE, AEROPLANE is called BOAT, and BOAT is called TRUCK, then what is the means of air transport?

- Ans
- ✗ 1. MOTORCYCLE
 - ✗ 2. AEROPLANE
 - ✓ 3. BOAT
 - ✗ 4. TRUCK

Question ID : 9679477310
Status : Answered
Chosen Option : 4

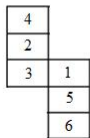
Q.57 Select the figure from the options that can replace the question mark (?) and complete the pattern.



- Ans
- ✗ 1.
 - ✗ 2.
 - ✗ 3.
 - ✓ 4.

Question ID : 9679477320
Status : Answered
Chosen Option : 2

Q.58 A cube is made by folding the given sheet. In the cube so formed, what would be the number on the opposite side of the number 5?



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

Question ID : 9679477322
Status : Answered
Chosen Option : 4

Q.59 Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

- Ans**
- ☐ 1. LECIBYC
 - ☒ 2. SAPESGERNE
 - ☐ 3. REELANOPA
 - ☐ 4. ECOROTS

Question ID : 9679477316
Status : Not Answered
Chosen Option : --

Q.60 Read the given statements and conclusions carefully and decide which of the conclusions logically follow(s) from the statements.

Statements: Following are the criteria to apply for an examination:
Applicants must have a master's degree or equivalent from a recognised institution. Candidates should have scored 55% marks, and reserved category candidates should have scored 50% marks. 5% relaxation is given to Ph.D. degree holders in aggregate marks.

Conclusions:
I. Candidate X, who belongs to the reserved category and has scored 52% marks, can apply.
II. Candidate Y, who has enrolled himself/herself in the Ph.D. programme and has scored 54% marks, can apply.

- Ans**
- ☐ 1. Both conclusions I and II follow
 - ☐ 2. Neither conclusion I nor II follows
 - ☒ 3. Only conclusion I follows
 - ☐ 4. Only conclusion II follows

Question ID : 9679477318
Status : Answered
Chosen Option : 1

Q.1 Let f be a continuous function on $[1, 3]$. If f takes only rational values for all x and $f(2) = 10$, then $f(1.5)$ is equal to:

- Ans
- ✓ 1. 10
 - ✗ 2. 8
 - ✗ 3. $\frac{f(1) + f(3)}{3}$
 - ✗ 4. 20

Question ID : 9679477373
Status : Answered
Chosen Option : 1

Q.2 The locus of the point of intersection of the lines $x \sin \theta + (1 - \cos \theta)y = a \sin \theta$ and $x \sin \theta - (1 + \cos \theta)y + a \sin \theta = 0$ is:

- Ans
- ✗ 1. $x^2 = ay$
 - ✗ 2. $y^2 = ax$
 - ✓ 3. $x^2 + y^2 = a^2$
 - ✗ 4. $x^2 - y^2 = a^2$

Question ID : 9679477362
Status : Not Answered
Chosen Option : --

Q.3 A vertical wall and a tower are on the ground. As seen from the top of the tower, the angles of depression of the top and the bottom of the wall are 45° and 60° , respectively. If the height of the tower is 90 m, then what is the height of the wall (in m)? (Use $\sqrt{3} = 1.732$.)

- Ans
- ✗ 1. 32.04
 - ✓ 2. 38.04
 - ✗ 3. 42.18
 - ✗ 4. 21.96

Question ID : 9679477366
Status : Answered
Chosen Option : 4

Q.4 If three positive real numbers $a, b, c (c > a)$ are in harmonic progression, then $\log(a + c) + \log(a - 2b + c)$ is equal to:

- Ans
- ✓ 1. $2 \log(c - a)$
 - ✗ 2. $2 \log(c - b)$
 - ✗ 3. $\log a + \log b + \log c$
 - ✗ 4. $2 \log(a + c)$

Question ID : 9679477343
Status : Not Answered
Chosen Option : --

Q.5 How many triangles can be formed by joining the vertices of a hexagon?

- Ans
- ☒ 1. 56
 - ☒ 2. 35
 - ☒ 3. 20
 - ☒ 4. 10

Question ID : 9679477332
Status : Answered
Chosen Option : 3

Q.6 If the anti-derivative of $f(x) = \frac{\sin x}{(\sin^2 x + 4 \cos^2 x)}$ is $\left(\frac{-1}{\sqrt{3}}\right) \tan^{-1}(g(x)) + C$, then $g(x)$ is of the form:

- Ans
- ☒ 1. $\frac{\sec x}{\sqrt{3}}$
 - ☒ 2. $\sec(\sqrt{3})x$
 - ☒ 3. $\frac{\cos x}{\sqrt{3}}$
 - ☒ 4. $\sqrt{3} \cos x$

Question ID : 9679477371
Status : Not Answered
Chosen Option : --

Q.7 If the roots of the equation $x^2 - 2ax + a^2 + a - 3 = 0$ are real and less than 3, then:

- Ans
- ☒ 1. $a < 2$
 - ☒ 2. $2 \leq a \leq 3$
 - ☒ 3. $3 < a \leq 4$
 - ☒ 4. $a > 4$

Question ID : 9679477353
Status : Answered
Chosen Option : 2

Q.8 If $f(x) = x^3$ and $g(x) = 3^x$ are two real-valued functions, then the number of solutions of $(g \circ f)(x) = (f \circ g)(x)$ is:

- Ans
- ☒ 1. Three
 - ☒ 2. Zero
 - ☒ 3. One
 - ☒ 4. Two

Question ID : 9679477327
Status : Answered
Chosen Option : 1

Q.9 Let $A = \{1,2,3,4,5\}$ and $B = \{u, v, x, y, z\}$. The relation $R: A \rightarrow B$ is a function if R is defined by:

- Ans
- ✗ 1. $\{(1, u), (2, x), (2, y), (3, z), (4, v), (5, y)\}$
 - ✗ 2. $\{(1, u), (2, v), (3, v), (4, y)\}$
 - ✗ 3. $\{(1, y), (1, u), (2, x), (3, y), (4, z)\}$
 - ✓ 4. $\{(1, u), (2, v), (3, x), (4, z), (5, y)\}$

Question ID : 9679477326
Status : Answered
Chosen Option : 4

Q.10 The maximum of the function $f(x, y, z) = 5x - 6y + 7z$ on an ellipsoid $2x^2 + 3y^2 + 4z^2 = 1$ is:

- Ans
- ✓ 1. 6.06
 - ✗ 2. 4.04
 - ✗ 3. 36.75
 - ✗ 4. 12.12

Question ID : 9679477375
Status : Not Answered
Chosen Option : --

Q.11 If the matrix $A = \begin{pmatrix} -1 & 3 \\ 2 & 4 \end{pmatrix}$ satisfies its own characteristic equation, then the matrix $A^4 - 3A^3 - 10A^2 + 3A + 2I$ is of the form:

- Ans
- ✓ 1. $\begin{pmatrix} -1 & 9 \\ 6 & 14 \end{pmatrix}$
 - ✗ 2. $\begin{pmatrix} 1 & 3 \\ 2 & 6 \end{pmatrix}$
 - ✗ 3. $\begin{pmatrix} -5 & 9 \\ 6 & 10 \end{pmatrix}$
 - ✗ 4. $\begin{pmatrix} 0 & 3 \\ 2 & 5 \end{pmatrix}$

Question ID : 9679477358
Status : Not Answered
Chosen Option : --

Q.12 If the range and the coefficient of a data set are 80 and $\frac{2}{5}$, respectively, then what is the value of the largest observation?

- Ans
- ✗ 1. 110
 - ✗ 2. 120
 - ✓ 3. 140
 - ✗ 4. 130

Question ID : 9679477392
Status : Not Answered
Chosen Option : --

Q.13 If the arithmetic mean of 501 consecutive natural numbers is 1011, then what is the largest number?

- Ans
- ☒ 1. 1271
 - ☒ 2. 1211
 - ☒ 3. 1261
 - ☒ 4. 1513

Question ID : 9679477393
Status : Answered
Chosen Option : 3

Q.14 Let $A = \{(x, y) : y = 0, x \in \mathbb{R}\}$, $B = \{(x, y) : y + \frac{9}{4} = (x - \frac{1}{2})^2\}$ and $C = \{(x, y) : x = 0, y \in \mathbb{R}\}$. Then, $B \cap (A \cup C) =$ _____.

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

Question ID : 9679477325
Status : Answered
Chosen Option : 2

Q.15 Solve the following.

$$-15 < \frac{5(x-2)}{3} < 2$$

- Ans
- ☒ 1. $-7 < x < 3.2$
 - ☒ 2. $-7 < x < 4.2$
 - ☒ 3. $-6 < x < 3.2$
 - ☒ 4. $-7 < x < 3.8$

Question ID : 9679477339
Status : Answered
Chosen Option : 1

Q.16 The general solution of $y - 2px = \tan^{-1}(xp^2)$, where $p = \frac{dy}{dx}$ is:

- Ans
- ✗ 1. $y = 2\sqrt{cx} - \tan^{-1}(c)$
 - ✓ 2. $y = 2\sqrt{cx} + \tan^{-1}(c)$
 - ✗ 3. $y = \sqrt{cx} - \tan^{-1}(c)$
 - ✗ 4. $y = \sqrt{cx} + \tan^{-1}(c)$

Question ID : 9679477383
Status : Not Answered
Chosen Option : --

Q.17 In the expansion of $(1+x)^{20}$, the coefficients of r th and $(r+1)$ th are in the ratio 1 : 6. What is the value of r ?

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

Question ID : 9679477342
Status : Answered
Chosen Option : 3

Q.18 The coefficient of x^5 in the expansion of $\left(x + \frac{1}{x^3}\right)^{17}$ is:

- Ans
- ✗ 1. 860
 - ✗ 2. 740
 - ✗ 3. 810
 - ✓ 4. 680

Question ID : 9679477341
Status : Answered
Chosen Option : 4

Q.19 Let N be the set of natural numbers, $X = \{y \in N: y = 4x + 3 \text{ for some } x \in N\}$ and $f: N \rightarrow X$ be a function defined by $f(x) = 2x + 5$ for all x in N . What is the inverse of?

Ans

✗ 1. $f^{-1}(x) = \frac{x+2}{5}$

✓ 2. $f^{-1}(x) = \frac{x-5}{2}$

✗ 3. $f^{-1}(x) = \frac{5-x}{2}$

✗ 4. $f^{-1}(x) = \frac{x+5}{2}$

Question ID : 9679477328

Status : Answered

Chosen Option : 2

Q.20 Which of the following statement(s) is/are true?

(i) If p is a prime number and a is a positive integer with $p \nmid a$, then $a^{p-1} \equiv 1 \pmod{p}$.

(ii) If m is a positive integer and a is an integer such that $(a, m) = 1$, then $a^{\phi(m)} \equiv 1 \pmod{m}$.

(iii) If p is a prime number, then p divides $(p-1)! + 1$.

Ans

✓ 1. Only (i) and (iii)

✗ 2. Only (i) and (ii)

✗ 3. Only (ii) and (iii)

✗ 4. All (i), (ii) and (iii)

Question ID : 9679477346

Status : Answered

Chosen Option : 1

Q.21 The value of the integral $\int_0^{2\pi} \frac{\sin^2 \theta}{5-3\cos \theta} d\theta$ is:

Ans

✓ 1. $\frac{2\pi}{9}$

✗ 2. $\frac{\pi}{12}$

✗ 3. $\frac{\pi}{3}$

✗ 4. $\frac{\pi}{9}$

Question ID : 9679477400

Status : Not Answered

Chosen Option : --

Q.22 The coefficient of x^{99} in the polynomial $(x-1)(x-2)\dots(x-100)$ is:

- Ans
- ☒ 1. 5050
 - ☒ 2. 4950
 - ☒ 3. -5050
 - ☒ 4. -4950

Question ID : 9679477340
Status : Answered
Chosen Option : 3

Q.23 The value of $\sin\left(\frac{1}{2}\cos^{-1}\frac{4}{5}\right)$ is:

- Ans
- ☒ 1. $\frac{4}{5}$
 - ☒ 2. $\frac{1}{3}$
 - ☒ 3. $\frac{1}{\sqrt{10}}$
 - ☒ 4. $\frac{2}{9}$

Question ID : 9679477368
Status : Answered
Chosen Option : 3

Q.24 Let $\mathcal{P}_2$ denote the vector space of polynomials of degree less than or equal to 2. If $T : \mathcal{P}_2 \rightarrow \mathcal{P}_2$ is a linear operator and $T(1) = x+1, T(x) = x^2+2, T(x^2) = -3x^2+x$, then $T(-x^2+x-3)$ is equal to:

- Ans
- ☒ 1. $2x^2 - 4x - 1$
 - ☒ 2. $4x^2 - 2x - 5$
 - ☒ 3. $4x^2 + 4x - 1$
 - ☒ 4. $4x^2 - 4x - 1$

Question ID : 9679477397
Status : Answered
Chosen Option : 4

Q.25 If $1, \omega$ and ω^2 are the cube roots of unity, then roots of the equation $(x-2)^3 + 27 = 0$ are _____.

- Ans
- ☒ 1. $-1, -3\omega, -3\omega^2$
 - ☒ 2. $1, 2+3\omega, 2+3\omega^2$
 - ☒ 3. $1, 3\omega, 3\omega^2$
 - ☒ 4. $-1, 2-3\omega, 2-3\omega^2$

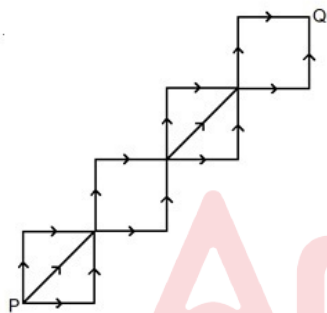
Question ID : 9679477335
Status : Answered
Chosen Option : 4

Ans  1. 3
 2. 2
 3. 4
 4. 8

Q.27 The vertices of a triangle are $(1, 2)$, $(-3, 4)$ and $(-5, -6)$. What is the area of the triangle (in square units)?

Ans  1. 24
 2. 22
 3. 18
 4. 20

Q.28 In the following path diagram, how many different ways are there to reach Q from P?



Ans

	1.	18
	2.	27
	3.	36
	4.	16

Question ID : 9679477334
Status : Answered
Chosen Option : 3

Q.29 If the vector $(x, -2, 0)$ is a linear combination of the vectors $(5, 1, -2)$ and $(2, -1, 1)$, then what is the value of x ?

- Ans
- ☐ 1. 12
 - ☐ 2. 5
 - ☒ 3. 18
 - ☐ 4. 15

Question ID : 9679477398
Status : Answered
Chosen Option : 3

Q.30 The value of $\sin 780^\circ \sin 480^\circ + \cos 120^\circ \cos 60^\circ$ is:

- Ans
- ☐ 1. 1
 - ☐ 2. 0.25
 - ☒ 3. 0.5
 - ☐ 4. 0.75

Question ID : 9679477364
Status : Answered
Chosen Option : 1

Q.31 If $(4, 1)$ is one extremity of a diameter of the circle $x^2 + y^2 - 2x + 6y - 15 = 0$, then what are the coordinates of the other extremity?

- Ans
- ☐ 1. $(3, 5)$
 - ☒ 2. $(-2, -7)$
 - ☐ 3. $(-2, -5)$
 - ☐ 4. $(4, -7)$

Question ID : 9679477361
Status : Answered
Chosen Option : 2

Q.32 If the vectors $\vec{a} = 2\hat{i} + 3\hat{j} - \hat{k}$, $\vec{b} = -\hat{i} + 2\hat{j} - 4\hat{k}$ and $\vec{c} = \hat{i} + \hat{j} + \hat{k}$, then $(\vec{a} + \vec{b}) \cdot (\vec{a} \times \vec{c}) =$ _____.

- Ans
- ☐ 1. 9
 - ☒ 2. -6
 - ☐ 3. -7
 - ☐ 4. 5

Question ID : 9679477387
Status : Answered
Chosen Option : 2

Q.33 The straight line $\frac{x-1}{1} = \frac{y-2}{1} = \frac{z-k}{2}$ lies exactly on the plane $2x - 4y + z = 7$. What is the value of k?

- Ans
- ✓ 1. 13
 - ✗ 2. 17
 - ✗ 3. 11
 - ✗ 4. 16

Question ID : 9679477390
Status : Answered
Chosen Option : 3

Q.34 The principal value of $\tan^{-1}\left(\frac{-1}{\sqrt{3}}\right)$ is:

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

Question ID : 9679477367
Status : Answered
Chosen Option : 3

Q.35 If $i = \sqrt{-1}$, then the value of $i^i = ?$

- Ans
- ✗ 1. $e^{\frac{\pi}{2}}$
 - ✗ 2. -1
 - ✗ 3. 1
 - ✓ 4. $e^{-\frac{\pi}{2}}$

Question ID : 9679477336
Status : Answered
Chosen Option : 1

Q.36 If $f''(x)$ is continuous at $x = 0$ and $f''(0) = 4$, then what is the value of $\lim_{x \rightarrow 0} \frac{2f(x) - 3f(2x) + f(4x)}{x^2}$?

- Ans
- ✗ 1. 8
 - ✗ 2. 4
 - ✓ 3. 12
 - ✗ 4. 1

Question ID : 9679477372
Status : Not Answered
Chosen Option : --

Q.37

The factor of the determinant $\begin{vmatrix} x & -6 & -1 \\ 2 & -3x & x-3 \\ -3 & 2x & x+2 \end{vmatrix}$ is:

- Ans
- ☐ 1. $x + 2$
 - ☒ 2. $x + 3$
 - ☐ 3. $x - 3$
 - ☐ 4. $2x + 1$

Question ID : 9679477354

Status : Answered

Chosen Option : 2

Q.38

The order and the degree of the differential equation $\left(\frac{d^2y}{dx^2}\right) = \left[1 + \left(\frac{dy}{dx}\right)^2\right]^{\frac{3}{2}}$ are _____, respectively.

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

Question ID : 9679477382

Status : Answered

Chosen Option : 3

Q.39

Taylor's series expansion of $f(x, y) = x^y$ in powers of $x - 1$ and $y - 1$ upto second degree terms is:

- Ans
- ☐ 1. $1 - (x - 1) - (x - 1)(y - 1)$
 - ☐ 2. $1 - (x - 1) + (x - 1)(y - 1)$
 - ☐ 3. $1 + (x - 1) - (x - 1)(y - 1)$
 - ☒ 4. $1 + (x - 1) + (x - 1)(y - 1)$

Question ID : 9679477403

Status : Not Answered

Chosen Option : --

Q.40

Which of the following is True?

- Ans
- ☐ 1. If $\gcd(a, b) = 1 = \gcd(b, c)$, then $\gcd(a, c) = 1$.
 - ☒ 2. $\gcd(a, b) = \gcd(a, a - b)$
 - ☐ 3. $\gcd(a, b) = \gcd(a, a - 2b)$
 - ☐ 4. $\gcd(p, p + 2) = 1$, where p is a prime number.

Question ID : 9679477347

Status : Answered

Chosen Option : 2

Q.41 For what value of p is the function $f(z) = \frac{1}{2} \ln(x^2 + y^2) + i \tan^{-1} \left(\frac{px}{y} \right)$ analytic?

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

Question ID : 9679477399
Status : Not Answered
Chosen Option : --

Q.42 Two dice are tossed. What is the probability of getting an even number on the first die or a total of 8?

- Ans
- ☒ 1. $\frac{1}{12}$
 - ☒ 2. $\frac{1}{2}$
 - ☒ 3. $\frac{5}{9}$
 - ☒ 4. $\frac{2}{3}$

Question ID : 9679477395
Status : Answered
Chosen Option : 3

Q.43 The distance between the planes $2x + 2y + z - 6 = 0$ and $4x + 4y + 2z - 7 = 0$ is:

- Ans
- ☒ 1. $\frac{13}{3}$
 - ☒ 2. $\frac{5}{6}$
 - ☒ 3. $\frac{1}{6}$
 - ☒ 4. $\frac{1}{3}$

Question ID : 9679477388
Status : Not Answered
Chosen Option : --

Q.44 If $A = \begin{bmatrix} \beta & 0 \\ 1 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 0 \\ 5 & 1 \end{bmatrix}$, then what is the value of β for which $A^2 = B$?

Ans ☒ 1. No real value

☐ 2. -1

☐ 3. 1

☐ 4. 2

Question ID : 9679477355

Status : Answered

Chosen Option : 1

Q.45 The ratio of expenses of A and B in the month of May are in the ratio $5 : 2$. In June, the expense of A decreases by Rs. z and that of B increases by Rs. z , where z is 5% of A 's expense in May. Consider the following statements.

I. The arithmetic means of their expenses in May and June are equal.

II. The geometric mean of their expenses in June is less than that in May.

Which of these statement(s) is/are true?

Ans ☐ 1. Neither I nor II

☐ 2. Both I and II

☐ 3. Only II

☒ 4. Only I

Question ID : 9679477345

Status : Not Answered

Chosen Option : --

Q.46 The number of real solutions of the equation $\sqrt{x+9} + \sqrt{4+x} = 5$ is:

Ans ☒ 1. 1

☐ 2. 3

☐ 3. 2

☐ 4. 0

Question ID : 9679477351

Status : Answered

Chosen Option : 3

Q.47 The area bounded by the curves $y^2 = 9x$ and $y = 3x$ is:

Ans ☐ 1. 0.25

☐ 2. 2

☒ 3. 0.5

☐ 4. 1

Question ID : 9679477376

Status : Answered

Chosen Option : 3

Q.48 In a binomial distribution consisting of 5 independent trials, probabilities of 1 and 2 successes are 0.3872 and 0.1936, respectively. Find the parameter 'p' of the distribution.

- Ans
- ✓ 1. 0.2
 - ✗ 2. 0.1
 - ✗ 3. 0.3
 - ✗ 4. 0.4

Question ID : 9679477396
Status : Answered
Chosen Option : 1

Q.49 The points $A(2,3), B(3,5), C(7,7)$ and $D(4,5)$ are such that:

- Ans
- ✗ 1. $ABCD$ is a parallelogram
 - ✗ 2. A, B, C and D are collinear
 - ✓ 3. D lies inside the triangle ABC
 - ✗ 4. D lies on the boundary of the triangle ABC

Question ID : 9679477386
Status : Answered
Chosen Option : 3

Q.50 Out of 18 points in a plane, no three are in the same straight line, except five points which are collinear. How many triangles can be formed by joining them?

- Ans
- ✓ 1. 806
 - ✗ 2. 765
 - ✗ 3. 826
 - ✗ 4. 816

Question ID : 9679477333
Status : Answered
Chosen Option : 1

Q.51 If $\left| \frac{z-2i}{z+2i} \right| = 1$, then $z = x + iy$ lies on:

- Ans
- ✗ 1. a circle passing through origin
 - ✗ 2. the straight line $y = 2$
 - ✓ 3. the real axis
 - ✗ 4. the straight line $x = 2$

Question ID : 9679477337
Status : Not Answered
Chosen Option : --

Q.52 For any $n \in \mathbb{N}$, which of the following statement(s) is/are true?

- (i) The number $n^2 + n$ is odd.
- (ii) The number $n^2 + n$ is even.
- (iii) $n^2 + n$ is divisible by 7 only if $n = 7$.

- Ans
- ☒ 1. Only (iii)
 - ☒ 2. Only (ii)
 - ☒ 3. Only (i)
 - ☒ 4. Only (i) and (iii)

Question ID : 9679477331
Status : Answered
Chosen Option : 2

Q.53 The number of solutions of $\log_4(x - 1) = \log_2(x - 3)$ is:

- Ans
- ☒ 1. Two
 - ☒ 2. Three
 - ☒ 3. One
 - ☒ 4. Zero

Question ID : 9679477370
Status : Answered
Chosen Option : 3

Q.54 The coordinates of a point which divides the line joining the points $P(2,3,1)$ and $Q(5,0,4)$ in the ratio 1 : 2 are:

- Ans
- ☒ 1. $(1, -1, 1)$
 - ☒ 2. $(4, 1, 3)$
 - ☒ 3. $(\frac{7}{3}, 1, \frac{5}{3})$
 - ☒ 4. $(3, 2, 2)$

Question ID : 9679477391
Status : Answered
Chosen Option : 4

Q.55 The nature of the stationary point (1,1) of the function $f(x,y)$, given $f_{xx} = 6xy^3$, $f_{xy} = 9x^2y^2$ and $f_{yy} = 6x^3y$, is:

- Ans
- ☒ 1. minimum point
 - ☒ 2. saddle point
 - ☒ 3. maximum point
 - ☒ 4. extreme point

Question ID : 9679477404
Status : Answered
Chosen Option : 2

Q.56 What is the value of the integral $\int_C [(x^2 + xy)dx + (x^2 + y^2)dy]$, where C is the square formed by the lines $y = \pm 1$ and $x = \pm 1$?

- Ans
- ☒ 1. 32
 - ☒ 2. 18
 - ☒ 3. 5
 - ☒ 4. 0

Question ID : 9679477381
Status : Not Answered
Chosen Option : --

Q.57 Solve the following equation: $3xy^2(1 - x^2)\frac{dy}{dx} + (2x^2 - 1)y^3 = ax^3$.

- Ans
- ☒ 1. $y^3 = ax + cx^2\sqrt{(1 - x^2)}$
 - ☒ 2. $y^3 = cx + ax\sqrt{(1 + x^2)}$
 - ☒ 3. $y^3 = ax + cx\sqrt{(1 - x^2)}$
 - ☒ 4. $y^3 = ax^2 - cx\sqrt{(1 - x^2)}$

Question ID : 9679477385
Status : Not Answered
Chosen Option : --

Q.58 By eliminating x from the simultaneous linear equations $\frac{dx}{dt} + 2y = 0$ and $\frac{dy}{dt} - 2x = 0$, the differential equation will be of the form:

Ans

✓ 1. $\frac{d^2y}{dt^2} + 4y = 0$

✗ 2. $\frac{d^2y}{dt^2} + 2y = 0$

✗ 3. $\frac{d^2y}{dt^2} = 2y$

✗ 4. $\frac{d^2y}{dt^2} = 4y$

Question ID : 9679477384

Status : Not Answered

Chosen Option : --

Q.59 If a, b, c are distinct non-negative integers and $\omega \neq 1$ is a cube root of unity, then the minimum value of $x = |a + b\omega + c\omega^2| + |a + b\omega^2 + c\omega|$ is:

Ans

✗ 1. $3\sqrt{2}$

✗ 2. $2\sqrt{3}$

✗ 3. $2\sqrt{2}$

✓ 4. $6\sqrt{2}$

Question ID : 9679477338

Status : Answered

Chosen Option : 2

Q.60 For $n \in \mathbb{N}$, $\left(1 - \frac{1}{2}\right)\left(1 - \frac{1}{3}\right)\left(1 - \frac{1}{4}\right) \dots \left(1 - \frac{1}{n+1}\right) = \underline{\hspace{2cm}}$.

Ans

✗ 1. $\frac{n}{n+1}$

✗ 2. $\frac{n}{n-1}$

✓ 3. $\frac{1}{n+1}$

✗ 4. $\frac{1}{n-1}$

Question ID : 9679477330

Status : Answered

Chosen Option : 3

Q.61 The value of $\int_0^1 x(1-x)^{99} dx$ is:

Ans

✗ 1. $\frac{1}{10110}$

✗ 2. $\frac{1}{11010}$

✓ 3. $\frac{1}{10100}$

✗ 4. $\frac{1}{10010}$

Question ID : 9679477377

Status : Answered

Chosen Option : 3

Q.62 What is the value of the integral $\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} \sqrt{(\cos x - \cos^3 x)} dx$?

Ans

✗ 1. $\frac{2}{3}$

✓ 2. $\frac{4}{3}$

✗ 3. 0

✗ 4. $\frac{1}{3}$

Question ID : 9679477378

Status : Answered

Chosen Option : 3

Q.63 Which of the following functions is NOT uniformly continuous?

Ans

✓ 1. $f(x) = x^2$ for all x in $[0, \infty)$

✗ 2. $f(x) = x^3$ for all x in $[0, 1]$

✗ 3. $f(x) = \sin x$ for all x in $[0, \infty)$

✗ 4. $f(x) = x^2$ for all x in $[1, 2]$

Question ID : 9679477401

Status : Answered

Chosen Option : 1

Q.64 If $a + b + c = 0$, then the quadratic equation $3ax^2 + 2bx + c = 0$ has:

- Ans
- ☒ 1. one root in $(2,3)$ and the other in $[-2,-1]$
 - ☒ 2. no real roots
 - ☒ 3. at least one root in $[0,1]$
 - ☒ 4. at least one root in $[1.5,2]$

Question ID : 9679477352
Status : Not Answered
Chosen Option : --

Q.65 Suppose a, b and c are in AP and a^2, b^2 and c^2 are in GP. If $a < b < c$ and $a + b + c = \frac{3}{2}$, then the value of a is:

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

Question ID : 9679477344
Status : Not Answered
Chosen Option : --

Q.66 If $A = \begin{pmatrix} 1 & -1 \\ 2 & -1 \end{pmatrix}$, $B = \begin{pmatrix} x & 1 \\ y & -1 \end{pmatrix}$ and $A^2 + B^2 = (A + B)^2$, then what are the values of x and y ?

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

Question ID : 9679477356
Status : Not Answered
Chosen Option : --

Q.67 The value of $3(\sin x - \cos x)^4 + 6(\sin x + \cos x)^2 + 4(\sin^6 x + \cos^6 x)$ is:

- Ans
- ✓ 1. 13
 - ✗ 2. 32
 - ✗ 3. 45
 - ✗ 4. 28

Question ID : 9679477365
Status : Answered
Chosen Option : 1

Q.68 Let $f(x) = x^3 - 6x^2 + 11x - 6$, $x \in [1, 3]$. The $f(x)$ satisfies Rolle theorem on the domain and $f'(c) = 0$ for c is equal to:

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

Question ID : 9679477374
Status : Answered
Chosen Option : 3

Q.69 The system of equations $ax + by + cz = q - r$; $bx + cy + az = r - p$ and $cx + ay + bz = p - q$ is:

- Ans
- ✗ 1. consistent if a, b, c are distinct and $a + b + c = 0$
 - ✗ 2. inconsistent if $a = b = c$ and p, q, r are distinct
 - ✓ 3. consistent if $p = q = r$
 - ✗ 4. inconsistent if $p \neq q \neq r$

Question ID : 9679477357
Status : Not Answered
Chosen Option : --

Q.70 The coordinates of the orthocentre of the triangle formed by the straight lines

$x - y - 5 = 0$, $2x - y - 8 = 0$ and $3x - y - 9 = 0$ are:

- Ans
- ✓ 1. $(-6, 1)$
 - ✗ 2. $(6, -1)$
 - ✗ 3. $(-5, 2)$
 - ✗ 4. $(5, 2)$

Question ID : 9679477363
Status : Not Answered
Chosen Option : --

Q.71 The number of positive integers $n \leq 2076$ and divisible by neither 4 nor 5 is:

- Ans
- ☒ 1. 1042
 - ☒ 2. 1203
 - ☒ 3. 1245
 - ☒ 4. 1131

Question ID : 9679477348
Status : Answered
Chosen Option : 4

Q.72 What is the value of the integral $\int_C \tan z \, dz$, where C is the circle whose centre is origin and radius is 2?

- Ans
- ☒ 1. $2\pi i$
 - ☒ 2. $-4\pi i$
 - ☒ 3. 0
 - ☒ 4. $-2\pi i$

Question ID : 9679477380
Status : Answered
Chosen Option : 2

Q.73 If $\int \left(\frac{\cos 4x+1}{\cot x - \tan x} \right) dx = k \cos 4x + C$, then the value of k is:

- Ans
- ☒ 1. $-1/8$
 - ☒ 2. $-1/4$
 - ☒ 3. $-1/2$
 - ☒ 4. $-1/5$

Question ID : 9679477379
Status : Answered
Chosen Option : 2

Q.74 The number of real roots of the equation $(7 + 4\sqrt{3})^{|x|-6} + (7 - 4\sqrt{3})^{|x|-6} = 14$ is:

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

Question ID : 9679477350
Status : Answered
Chosen Option : 2

Q.75 At what point is the function $f(x) = \sin^{-1}(\tan x)$ is NOT differentiable?

Ans

✓ 1. $x = \frac{\pi}{4}$

✗ 2. $x = \frac{\pi}{6}$

✗ 3. $x = \frac{\pi}{3}$

✗ 4. $x = 0$

Question ID : 9679477369

Status : Answered

Chosen Option : 4

Q.76 The variable x takes 14 values, namely, $1 + 2 + \dots + k$ for $1 \leq k \leq 14$, each exactly once. What is the median of this variable?

Ans

✗ 1. 33

✗ 2. 31

✗ 3. 34

✓ 4. 32

Question ID : 9679477394

Status : Answered

Chosen Option : 4

Q.77 The conjugate harmonic function of $2x(1 - y)$ is:

Ans

✓ 1. $x^2 - y^2 + 2y$

✗ 2. $x^2y + y^2 - 2x$

✗ 3. $x^2 + xy^2 - 2y$

✗ 4. $x^2y^2 - 2$

Question ID : 9679477402

Status : Not Answered

Chosen Option : --

Q.78 The value of $1 + 4 + 7 + \dots + (3n - 2)$ is:

Ans

✗ 1. $\frac{n}{2}(3n + 1)$

✗ 2. $n(n + 1)$

✓ 3. $\frac{n}{2}(3n - 1)$

✗ 4. $2n(3n - 1)$

Question ID : 9679477329

Status : Answered

Chosen Option : 3

Q.79 Find the equation of the straight line if the perpendicular from the origin makes an angle of 120° with the x -axis and the length of the perpendicular from the origin is 6 units.

- Ans
- ✓ 1. $x - \sqrt{3}y + 12 = 0$
 - ✗ 2. $x - \sqrt{3}y + 6 = 0$
 - ✗ 3. $x - 3y + 8 = 0$
 - ✗ 4. $x + \sqrt{3}y + 12 = 0$

Question ID : 9679477360
Status : Answered
Chosen Option : 2

Q.80 The equation of the sphere with centre $(2, -2, 3)$, which is passing through the point $(7, -3, 5)$, is:

- Ans
- ✗ 1. $x^2 + y^2 + z^2 - 4x + 4y + 6z - 13 = 0$
 - ✓ 2. $x^2 + y^2 + z^2 - 4x + 4y - 6z - 13 = 0$
 - ✗ 3. $x^2 + y^2 + z^2 - 4x + 4y + 6z + 13 = 0$
 - ✗ 4. $x^2 + y^2 + z^2 + 4x - 4y - 6z + 13 = 0$

Question ID : 9679477389
Status : Not Answered
Chosen Option : --

Q.81 Which of the following is a barrier to effective listening?

- Ans
- ✗ 1. Comprehensive listening
 - ✗ 2. Compassionate listening
 - ✗ 3. Critical listening
 - ✓ 4. Distracted listening

Question ID : 9679477424
Status : Answered
Chosen Option : 4

Q.82 A pattern of planning to select the instructional material on the basis of curriculum to enable the teacher to decide a teaching strategy is called:

- Ans
- ✓ 1. teaching model
 - ✗ 2. teaching skill
 - ✗ 3. unit planning
 - ✗ 4. programmed learning

Question ID : 9679477410
Status : Answered
Chosen Option : 3

Q.83 Which of the following statements about instructional material is correct?

- Ans
- ☒ 1. It constitutes intangible substances.
 - ☒ 2. It acts as a substitute to learning.
 - ☒ 3. It is so complex that learners spend time to learn its use.
 - ☒ 4. It contributes to the learning process and makes learning more realistic.

Question ID : 9679477414
Status : Answered
Chosen Option : 4

Q.84 Educational technology is very useful because:

- Ans
- ☒ 1. it is the need of the hour
 - ☒ 2. it motivates students
 - ☒ 3. it makes teaching-learning more effective
 - ☒ 4. it is adapted in all developed nations

Question ID : 9679477415
Status : Answered
Chosen Option : 3

Q.85 Physical fitness tests produce results that are recorded:

- Ans
- ☒ 1. subjectively
 - ☒ 2. instinctively
 - ☒ 3. qualitatively
 - ☒ 4. quantitatively

Question ID : 9679477418
Status : Answered
Chosen Option : 4

Q.86 Perceptual motor learning is the most appropriate curriculum at the:

- Ans
- ☒ 1. higher secondary level
 - ☒ 2. college level
 - ☒ 3. secondary level
 - ☒ 4. primary level

Question ID : 9679477407
Status : Answered
Chosen Option : 1

Q.87 Which of the following factors should be considered as a curriculum determinant while changing curriculum?

- Ans
- ☒ 1. Caste system of the country
 - ☒ 2. Needs of learners
 - ☒ 3. Religious affiliation
 - ☒ 4. Political concerns

Question ID : 9679477406
Status : Answered
Chosen Option : 2

Q.88 Which of the following tests measures cardio-respiratory fitness?

- Ans
- ☒ 1. Kraus Weber test
 - ☒ 2. JCR test
 - ☒ 3. Shuttle Run test
 - ☒ 4. McArdle step test

Question ID : 9679477419
Status : Answered
Chosen Option : 3

Q.89 Instant transfer of information to distant places is called:

- Ans
- ☒ 1. tele-communication
 - ☒ 2. information and communication technology
 - ☒ 3. communication technology
 - ☒ 4. information technology

Question ID : 9679477416
Status : Answered
Chosen Option : 1

Q.90 What does NCF stand for in the context of NCF-2005?

- Ans
- ☒ 1. National Cultural Foundation
 - ☒ 2. National Curriculum Framework
 - ☒ 3. Naga College Foundation
 - ☒ 4. National Curriculum Forum

Question ID : 9679477408
Status : Answered
Chosen Option : 2

Q.91 The model of communication in which the participants exchange their positions as sender and receiver is called:

- Ans
- ☒ 1. interaction model of communication
 - ☒ 2. classical model of communication
 - ☒ 3. transactional model of communication
 - ☒ 4. linear model of communication

Question ID : 9679477421
Status : Answered
Chosen Option : 1

Q.92 Which is the first step in organising a Physical Education programme?

- Ans
- ☒ 1. Staffing
 - ☒ 2. Administering
 - ☒ 3. Planning
 - ☒ 4. Budgeting

Question ID : 9679477411
Status : Answered
Chosen Option : 3

Q.93 The most speedy form of communication is:

- Ans
- ✓ 1. oral communication
 - ✗ 2. written communication
 - ✗ 3. non-verbal communication
 - ✗ 4. individual communication

Question ID : 9679477422
Status : Answered
Chosen Option : 3

Q.94 Which of the following approaches to curriculum is founded on the theories of John Dewey, Henry Morrison and Boyd Bode?

- Ans
- ✓ 1. Academic approach
 - ✗ 2. Humanistic approach
 - ✗ 3. Behavioral approach
 - ✗ 4. System approach

Question ID : 9679477409
Status : Answered
Chosen Option : 3

Q.95 Which of the following options defines curriculum in a simple manner?

- Ans
- ✗ 1. It is the outline of the content to be taught.
 - ✗ 2. It is a well-charted document that depicts work schedule for all concerned.
 - ✓ 3. All of the experience's children have under the guidance of teachers to attain its educational goals.
 - ✗ 4. It is a course of study offered by the school.

Question ID : 9679477405
Status : Answered
Chosen Option : 3

Q.96 The most commonly used teaching technique in physical activity lessons is:

- Ans
- ✓ 1. demonstration
 - ✗ 2. observation
 - ✗ 3. orientation
 - ✗ 4. lecturing

Question ID : 9679477412
Status : Answered
Chosen Option : 1

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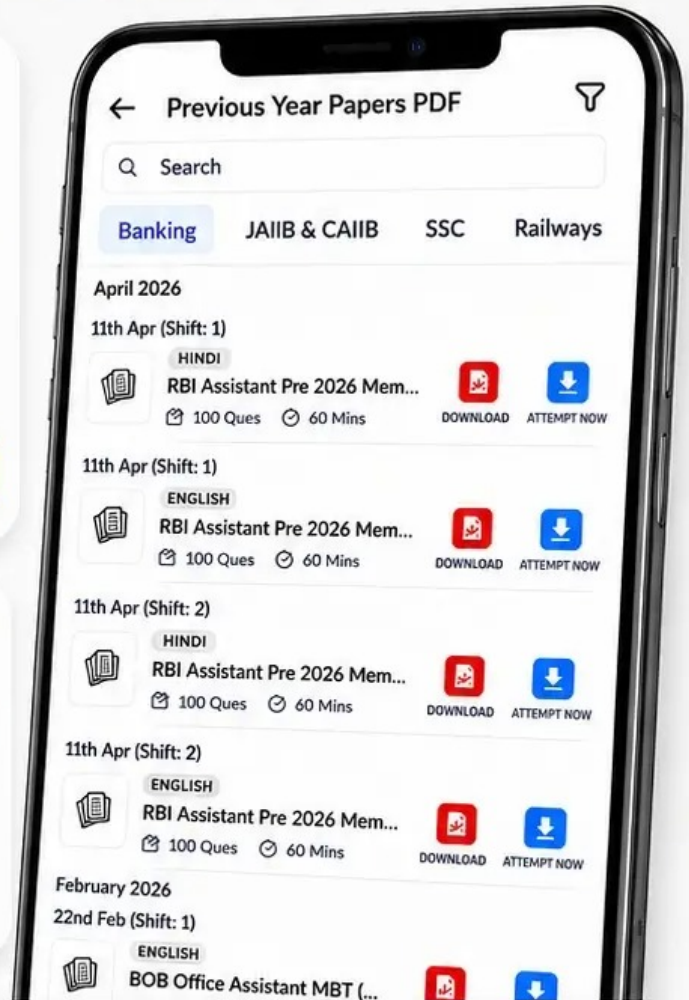
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Q.97 Sending and receiving clear signals by gestures is called:

- Ans ☒ 1. non-verbal communication
- ☐ 2. verbal communication
- ☐ 3. visual communication
- ☐ 4. written communication

Question ID : 9679477420
Status : Answered
Chosen Option : 1

Q.98 A test with established reliability and validity is called:

- Ans ☐ 1. a teacher-made test
- ☐ 2. a subjective test
- ☒ 3. a standardised test
- ☐ 4. an objective test

Question ID : 9679477417
Status : Answered
Chosen Option : 3

Q.99 The dynamism of a Physical Education activity programme rests on its:

- Ans ☐ 1. principles
- ☐ 2. values and ethics
- ☒ 3. effective communication
- ☐ 4. biological foundations

Question ID : 9679477423
Status : Answered
Chosen Option : 4

Q.100 In a Physical Education general lesson plan, unit time devoted to recreational activity before the dismissal of class should be:

- Ans ☐ 1. 40 percent of total lesson period
- ☐ 2. 20 percent of total lesson period
- ☒ 3. 25 percent of total lesson period
- ☐ 4. 35 percent of total lesson period

Question ID : 9679477413
Status : Answered
Chosen Option : 1