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OAVS TGT

**Previous Year Paper
(Maths) 29 May, 2018
Shift 1**





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Participant ID:	
Participant Name:	
Test Center Name:	
Test Date:	29/05/2018
Test Time:	9:00 AM - 12:20 PM
Subject:	TGT Maths

Section : Language Proficiency Test General English

Q.1 Choose the correct word and fill the blank.

Question ID : 6044813379

Status : Answered

Chosen Option : 4

What are you doing? I am _____ for my exams.

- Ans
- ☒ 1. believing
 - ☒ 2. calling
 - ☒ 3. watching
 - ☒ 4. preparing

Q.2 Choose the correct option to fill in the blank.

Question ID : 6044813372

Status : Answered

Chosen Option : 4

Have you found the keys you _____?

- Ans
- ☒ 1. make
 - ☒ 2. loss
 - ☒ 3. create
 - ☒ 4. lost

Q.3 Fill in the blank with the correct conjunction.

Question ID : 6044813368

Status : Answered

Chosen Option : 1

We can go dancing _____ stay at home.

- Ans
- ☒ 1. or
 - ☒ 2. because
 - ☒ 3. and
 - ☒ 4. but

Q.4 Fill in the blank with the correct preposition.

Question ID : 6044813369

Status : Answered

Chosen Option : 4

_____ pens and pencils, we also need some paper for practice.

- Ans
- ☒ 1. Beside
 - ☒ 2. By
 - ☒ 3. Between
 - ☒ 4. Besides

Q.5 Fill in the blank with the correct preposition.

Please do something _____ your ruined uniform.

- Ans
- ☐ 1. of
 - ☐ 2. from
 - ☐ 3. on
 - ☒ 4. about

Question ID : 6044813382

Status : Answered

Chosen Option : 1

Q.6 Choose the correct option and fill in the blank.

I _____ seen you since you came back from Paris.

- Ans
- ☒ 1. haven't
 - ☐ 2. have
 - ☐ 3. shall
 - ☐ 4. will

Question ID : 6044813371

Status : Answered

Chosen Option : 1

Q.7 Identify the correct spelling from the options given.

- Ans
- ☒ 1. Profession
 - ☐ 2. Profesion
 - ☐ 3. Proffesion
 - ☐ 4. Proffession

Question ID : 6044813376

Status : Answered

Chosen Option : 1

Q.8 Change the below sentence into active voice.

Six hundred people are employed by the bank.

- Ans
- ☐ 1. Six hundred people have been employed by the bank.
 - ☐ 2. The bank will employ six hundred people.
 - ☒ 3. The bank employs six hundred people.
 - ☐ 4. The bank has employed six hundred people.

Question ID : 6044813375

Status : Answered

Chosen Option : 3

Q.9 Fill in the blank with the correct option.

I _____ a letter to my aunt in the village.

- Ans
- ☐ 1. cent
 - ☒ 2. sent
 - ☐ 3. scent
 - ☐ 4. send

Question ID : 6044813365

Status : Answered

Chosen Option : 2

Q.10 Fill in the blank with the correct adverb.

I _____ go for a walk in the park.

- Ans
- ☒ 1. sometimes
 - ☐ 2. sometime
 - ☐ 3. some time
 - ☐ 4. once

Question ID : 6044813380

Status : Answered

Chosen Option : 2

Q.11 Give the one word substitute for, “ that which can be eaten”

- Ans ☒ 1. Edible
☐ 2. Hunger
☐ 3. Appetiser
☐ 4. Taste

Question ID : 6044813384
Status : Answered
Chosen Option : 1

Q.12 Select the option that shows the logically and grammatically correct answer of the question below.

What were you doing at 5 o'clock yesterday?

- Ans ☐ 1. I will be reading a book.
☐ 2. I am going to read a book.
☒ 3. I was reading a book.
☐ 4. I am reading a book.

Question ID : 6044813378
Status : Answered
Chosen Option : 3

Q.13 Fill in the blank with the correct preposition.

Shanti arranged the flowers _____ the vase.

- Ans ☐ 1. at
☐ 2. of
☐ 3. on
☒ 4. in

Question ID : 6044813373
Status : Answered
Chosen Option : 3

Q.14 Select the correct word from the options given to complete the sentence below.

You have to be a highly trained _____ to understand the project report.

- Ans ☐ 1. Economical
☐ 2. Economy
☐ 3. Subeconomy
☒ 4. Economist

Question ID : 6044813377
Status : Answered
Chosen Option : 4

Q.15 Fill in the blank with the correct preposition.

Sheela is standing _____ Sashi and Shridhar.

- Ans ☐ 1. among
☐ 2. around
☐ 3. about
☒ 4. between

Question ID : 6044813370
Status : Answered
Chosen Option : 4

Q.16 Fill in the blank with the correct preposition.

Can you help me to look _____ my spectacles?

- Ans ☒ 1. for
☐ 2. of
☐ 3. about
☐ 4. in

Question ID : 6044813381
Status : Answered
Chosen Option : 1

Q.17 Identify the correct spelling from the below options.

- Ans ☒ 1. Grammar
☐ 2. Gramar
☐ 3. Grammer
☐ 4. Gramer

Question ID : 6044813367
Status : Answered
Chosen Option : 1

Q.18 Pick the meaning of the phrasal verb closest in meaning to 'head for'.

- Ans
- ☐ 1. Deal satisfactorily
 - ☐ 2. Initiate something
 - ☐ 3. Push headlong into
 - ☒ 4. Start a journey or leave a place

Question ID : 6044813374
Status : Not Answered
Chosen Option : --

Q.19 Identify the correct spelling from the below options.

- Ans
- ☐ 1. Parmission
 - ☒ 2. Permission
 - ☐ 3. Permmision
 - ☐ 4. Permission

Question ID : 6044813366
Status : Answered
Chosen Option : 2

Q.20 Fill in the blank with the correct preposition.

The library consists _____ 12 rooms, a photocopy centre and a reference section.

- Ans
- ☐ 1. up
 - ☒ 2. of
 - ☐ 3. on
 - ☐ 4. off

Question ID : 6044813383
Status : Answered
Chosen Option : 2

Section : Language Proficiency Test Odia

Q.1 'ଆନନ୍ଦ' ବିପରୀତାର୍ଥବୋଧକ କ'ଣ ?

- Ans
- ☒ 1. ନିରାନନ୍ଦ
 - ☐ 2. ଶୋକ
 - ☐ 3. ଅଧାନନ୍ଦ
 - ☐ 4. ବିଷାଦ

Question ID : 6044813389
Status : Answered
Chosen Option : 1

Q.2 ବର୍ତ୍ତମାନ ଅନ୍ୟ ନାମ କ'ଣ ?

- Ans
- ☒ 1. ଲିପି
 - ☐ 2. ଧ୍ବନି
 - ☐ 3. ଶବ୍ଦ
 - ☐ 4. ପଦ

Question ID : 6044813387
Status : Answered
Chosen Option : 1

Q.3 'ଦୁଷ୍ଟ ଲୋକକୁ ସମସ୍ତେ ଭୟ କରନ୍ତି' - ବାକ୍ୟରେ ବିଶେଷଣ ପଦଟି କ'ଣ ?

- Ans
- ☒ 1. ଦୁଷ୍ଟ
 - ☐ 2. ଲୋକକୁ
 - ☐ 3. ଭୟ
 - ☐ 4. ସମସ୍ତେ

Question ID : 6044813392
Status : Answered
Chosen Option : 1

Q.4 ଭାରତୀୟ ସମ୍ବିଧାନ _____ ଟି ଭାଷାକୁ ସାକ୍ଷୀ ଦେଇଅଛି ।

- Ans
- ☐ 1. 14
 - ☐ 2. 18
 - ☐ 3. 25
 - ☒ 4. 22

Question ID : 6044813385
Status : Answered
Chosen Option : 4

Q.5 'କର୍କଟ' ଶବ୍ଦଟି କି ଧରଣର ଶବ୍ଦ ?

- Ans
- ☒ 1. ପାଶୀ
 - ☒ 2. ଚତୁର୍ଭବ
 - ☒ 3. ଇଂରାଜୀ
 - ☒ 4. ଚତୁର୍ଯ୍ୟମ

Question ID : 6044813390

Status : Answered

Chosen Option : 4

Q.6 'ଠ' କି ଧରଣର ଧ୍ବନି ?

- Ans
- ☒ 1. ଓଷ୍ଠ୍ୟ ଧ୍ବନି
 - ☒ 2. ମୂର୍ଦ୍ଧନ୍ୟ ଧ୍ବନି
 - ☒ 3. ଦନ୍ତ୍ୟ ଧ୍ବନି
 - ☒ 4. ଚାଲବ୍ୟ ଧ୍ବନି

Question ID : 6044813388

Status : Answered

Chosen Option : 4

Q.7 ଓଡ଼ିଆ ଭାଷା କେଉଁ ସ୍ତରର ଅନ୍ତର୍ଭୁକ୍ତ ?

- Ans
- ☒ 1. ପ୍ରାଚୀନ ଭାରତୀୟ ଆର୍ଯ୍ୟଭାଷା
 - ☒ 2. ମଧ୍ୟଭାରତୀୟ ଆର୍ଯ୍ୟଭାଷା
 - ☒ 3. ନବ୍ୟ ଭାରତୀୟ ଆର୍ଯ୍ୟଭାଷା
 - ☒ 4. ଅପଭ୍ରଂଶ ଭାଷା

Question ID : 6044813386

Status : Not Answered

Chosen Option : --

Q.8 'ଜଗୁଆଳ' - କି ଧରଣର ଶବ୍ଦ ?

- Ans
- ☒ 1. କୃଦନ୍ତ
 - ☒ 2. ଚର୍ଚ୍ଚିତ
 - ☒ 3. ଉପସର୍ଗ
 - ☒ 4. ସନ୍ଧି

Question ID : 6044813400

Status : Answered

Chosen Option : 1

Q.9 'ଏ ଘର ମାଉସୀ ସେ ଘର ପିଉସୀ' - କି ପ୍ରକାର ଗର୍ଭ ?

- Ans
- ☒ 1. ତୁଳନାତ୍ମକ ଗର୍ଭ
 - ☒ 2. କ୍ରିୟାହୀନ ଗର୍ଭ
 - ☒ 3. ବ୍ୟବହାରିକ ଗର୍ଭ
 - ☒ 4. କ୍ରିୟାଯୁକ୍ତ ଗର୍ଭ

Question ID : 6044813403

Status : Answered

Chosen Option : 1

Q.10 ସନ୍ଧି କେତେ ପ୍ରକାର ?

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

Question ID : 6044813401

Status : Answered

Chosen Option : 1

Q.11 'ସେ କ'ଣ କରୁଛି ତାହା ଜାଣେ ନାହିଁ' - ଏ ପଦରେ 'ତାହା' ଶବ୍ଦଟି କି ପଦ ?

- Ans
- ☒ 1. ସର୍ବନାମ
 - ☒ 2. ବିଶେଷ୍ୟ
 - ☒ 3. ଅବ୍ୟୟ
 - ☒ 4. କ୍ରିୟା ବିଶେଷଣ

Question ID : 6044813393

Status : Answered

Chosen Option : 3

Q.12 'ସଂଯୋଗ' ଶବ୍ଦର ବ୍ୟୁତ୍ପତ୍ତି କ'ଣ ହେବ ?

- Ans
- ✓ 1. ସମ୍ + ଯୋଗ
 - ✗ 2. ସମ୍ + ଜ + ଜ
 - ✗ 3. ସନ୍ + ଯୋଗ
 - ✗ 4. ସମ୍ + ଜ + ଯ

Question ID : 6044813398
Status : Answered
Chosen Option : 1

Q.13 “ଉତ୍କଳ – କମଳା – ବିଳାସ ଦୀର୍ଘକା, ମରାଳ – ମାଳିନୀ – ନୀଳାମ୍ବୁ – ଚିଲିକା ।” ଏହା କି ଧରଣର ଅଳଙ୍କାର ?

- Ans
- ✗ 1. ରୂପକ
 - ✓ 2. ଅନୁପ୍ରାସ
 - ✗ 3. ଉପମା
 - ✗ 4. ଯମକ

Question ID : 6044813404
Status : Not Answered
Chosen Option : --

Q.14 'ମୃତୁବାର' ଶବ୍ଦର ସ୍ତ୍ରୀ ଲିଙ୍ଗ କ'ଣ ?

- Ans
- ✗ 1. ମୃତୁବାରା
 - ✗ 2. ଧବିନୀ
 - ✓ 3. ବିଧବା
 - ✗ 4. ମୃତୁବାରିଣୀ

Question ID : 6044813394
Status : Not Answered
Chosen Option : --

Q.15 'ବୈଶାଖ ମାସରେ ଆମ ପାଚେ' - ଏ ବାକ୍ୟରେ ରେଖାଙ୍କିତ ପଦଟି କି କାରକ ?

- Ans
- ✗ 1. କର୍ମକାରକ
 - ✗ 2. କରଣ କାରକ
 - ✗ 3. କର୍ତ୍ତୃକାରକ
 - ✓ 4. ଅଧିକରଣ କାରକ

Question ID : 6044813396
Status : Not Answered
Chosen Option : --

Q.16 'ମଶାକୁ ଧୂଆଁ' - ଏ ବାକ୍ୟରେ 'ମଶାକୁ' ପଦଟି କି ବିଭକ୍ତି ?

- Ans
- ✗ 1. ପ୍ରଥମା
 - ✗ 2. ପଞ୍ଚମୀ
 - ✗ 3. ଦ୍ୱିତୀୟା
 - ✓ 4. ଚତୁର୍ଥୀ

Question ID : 6044813397
Status : Not Answered
Chosen Option : --

Q.17 ଓଡ଼ିଆରେ କାରକ କେତେ ପ୍ରକାର ?

- Ans
- ✗ 1. ପାଞ୍ଚ
 - ✗ 2. ସାତ
 - ✗ 3. ଆଠ
 - ✓ 4. ଛଅ

Question ID : 6044813395
Status : Not Answered
Chosen Option : --

Q.18 'ନାଟୁଆ' ଶବ୍ଦଟିରେ 'ଉଆ' ପ୍ରତ୍ୟୟଟି କେଉଁ ଅର୍ଥରେ ବ୍ୟବହୃତ ?

- Ans
- ✓ 1. ବୃତ୍ତି ଅର୍ଥରେ
 - ✗ 2. ଜାତି ଅର୍ଥରେ
 - ✗ 3. ଅଛି ଅର୍ଥରେ
 - ✗ 4. ଅଭ୍ୟାସ ଅର୍ଥରେ

Question ID : 6044813399
Status : Not Answered
Chosen Option : --

Q.19 'ସପ୍ତର୍ଷି' କି ଧରଣର ସମାପ ?

- Ans ☒ 1. ଦ୍ଵିଗୁ ସମାପ
- ☒ 2. ଚତୁର୍ଦ୍ଦଶ ସମାପ
- ☒ 3. ଦ୍ଵୟ ସମାପ
- ☒ 4. କର୍ମଧାରୟ ସମାପ

Question ID : 6044813402
Status : Answered
Chosen Option : 1

Q.20 'ଗମନ' କେଉଁ ପ୍ରକାର ବିଶେଷ ?

- Ans ☒ 1. ନାମବାଚକ
- ☒ 2. କ୍ରିୟାବାଚକ
- ☒ 3. ଜାତିବାଚକ
- ☒ 4. ଗୁଣବାଚକ

Question ID : 6044813391
Status : Answered
Chosen Option : 2

Section : Current Affairs

Q.1 Who is the author of the book 'My Gita'?

- Ans ☒ 1. Robin Sharma
- ☒ 2. Sri Sri Ravi Shankar
- ☒ 3. Shashi Tharoor
- ☒ 4. Devdutt Pattanaik

Question ID : 6044813424
Status : Answered
Chosen Option : 2

Q.2 Who won the 2018 BAFTA award for the Best Actor in a leading role?

- Ans ☒ 1. Gary Oldman
- ☒ 2. Ian McKellen
- ☒ 3. Benedict Cumberbatch
- ☒ 4. Anthony Hopkins

Question ID : 6044813421
Status : Not Answered
Chosen Option : --

Q.3 Which famous writer has been elected to head the Sahitya Akademi as its President?

- Ans ☒ 1. Chandrashekhara Kambara
- ☒ 2. Ashok Chakradhar
- ☒ 3. Praful Shiledar
- ☒ 4. Balachandran Chullikadu

Question ID : 6044813427
Status : Not Answered
Chosen Option : --

Q.4 Which swimmer won seven gold medals in the 2017 World Aquatics Championships in Budapest?

- Ans ☒ 1. Michael Phelps
- ☒ 2. Caeleb Dressel
- ☒ 3. Mark Spitz
- ☒ 4. Nicholas Biondi

Question ID : 6044813406
Status : Not Answered
Chosen Option : --

Q.5 Which team has the current Number 1 One Day International (ODI) ranking after the recently concluded India-South Africa bilateral ODI series held in South Africa?

- Ans ☒ 1. South Africa
- ☒ 2. India
- ☒ 3. Australia
- ☒ 4. Pakistan

Question ID : 6044813412
Status : Not Answered
Chosen Option : --

Q.6 In February 2018, which country launched the world's smallest satellite (TRICOM-IR) using the world's smallest space rocket (SS-520)?

- Ans**
- ☒ 1. Japan
 - ☐ 2. India
 - ☐ 3. Russia
 - ☐ 4. China

Question ID : 6044813415

Status : **Answered**

Chosen Option : 4

Q.7 The Nobel Prize in literature for 2017 went to which famous writer who is originally not of English origin but is settled in England?

- Ans**
- ☐ 1. Amy Tan
 - ☐ 2. Maxine Hong Kingston
 - ☐ 3. V.S. Naipaul
 - ☒ 4. Kazuo Ishiguro

Question ID : 6044813409

Status : **Answered**

Chosen Option : 4

Q.8 The film awards given by the British Film Academy are traditionally known as the:

- Ans**
- ☐ 1. UK Awards
 - ☒ 2. BAFTA Awards
 - ☐ 3. Golden Globe Awards
 - ☐ 4. Golden Bear Awards

Question ID : 6044813426

Status : **Answered**

Chosen Option : 2

Q.9 Which medium-range nuclear-capable missile has India successfully test-fired from the APJ Abdul Kalam Island in February 2018?

- Ans**
- ☐ 1. Akash II
 - ☐ 2. Trishul II
 - ☐ 3. Prithvi II
 - ☒ 4. Agni II

Question ID : 6044813420

Status : **Answered**

Chosen Option : 4

Q.10 Which country recently gave the first-ever 'Robot Citizenship' to a robot? The name of the Robot that got this citizenship is Sophia.

- Ans**
- ☐ 1. Japan
 - ☐ 2. Germany
 - ☒ 3. Saudi Arabia
 - ☐ 4. England

Question ID : 6044813414

Status : **Answered**

Chosen Option : 3

Q.11 Name the Ethiopian Prime Minister who recently resigned to pave the way for a smoother political reform?

- Ans**
- ☐ 1. Mulatu Teshome
 - ☐ 2. Demeke Mekonnen
 - ☐ 3. Negaso Gidada
 - ☒ 4. Hailemariam Desalegn

Question ID : 6044813430

Status : **Not Answered**

Chosen Option : --

Q.12 After founder-CEO Travis Kalanick stepped down, who is the new CEO of Uber?

- Ans**
- ☒ 1. Dara Khosrowshahi
 - ☐ 2. Brian Chesky
 - ☐ 3. Elon Musk
 - ☐ 4. Joe Gebbia

Question ID : 6044813410

Status : **Answered**

Chosen Option : 1

Q.13 The 22nd edition of the World Congress on Information Technology (WCIT) is to be hosted by which Indian city?

- Ans**
- ☐ 1. Pune
 - ☒ 2. Hyderabad
 - ☐ 3. Bangalore
 - ☐ 4. Chennai

Question ID : 6044813432

Status : **Answered**

Chosen Option : 3

Q.14 Name the Indian spiritual leader who received the highest civilian award – called the ‘Orden de la Democracia Simon Bolivar’ award – from the Columbian Government.

- Ans
- ☒ 1. Yogi Ramdev Baba
 - ☒ 2. Sadhguru Jaggi Vasudev
 - ☒ 3. Sri Sri Ravi Shankar
 - ☒ 4. Mata Amritanandamayi

Question ID : 6044813408

Status : Not Answered

Chosen Option :--

Q.15 ‘Be U’ is the logo and tag line of which of the following?

- Ans
- ☒ 1. Aadhaar card
 - ☒ 2. Smart city initiative
 - ☒ 3. Swachh Bharat Abhiyan
 - ☒ 4. Bengaluru city

Question ID : 6044813413

Status : Answered

Chosen Option :1

Q.16 Name the Google subsidiary that is into making autonomous self-driven cars.

- Ans
- ☒ 1. QNX
 - ☒ 2. Delphi
 - ☒ 3. Tesla
 - ☒ 4. Waymo

Question ID : 6044813418

Status : Not Answered

Chosen Option :--

Q.17 In February 2018, Forbes released it’s first-ever list of richest people in crypto currency – a compilation of the 20 wealthiest people in crypto. Who tops this list?

- Ans
- ☒ 1. Mukesh Ambani
 - ☒ 2. Warren Buffet
 - ☒ 3. Sam Walton
 - ☒ 4. Chris Larsen

Question ID : 6044813416

Status : Not Answered

Chosen Option :--

Q.18 Which of the following countries is NOT a member of the Shanghai Cooperation Organisation, an intergovernmental international organisation?

- Ans
- ☒ 1. Pakistan
 - ☒ 2. Japan
 - ☒ 3. India
 - ☒ 4. China

Question ID : 6044813431

Status : Answered

Chosen Option :2

Q.19 After the exit of Jacob Zuma following corruption charges, who is the new President of South Africa as of March 2018?

- Ans
- ☒ 1. Julius Malema
 - ☒ 2. Gwede Mantashe
 - ☒ 3. Cyril Ramaphosa
 - ☒ 4. Ace Magashule

Question ID : 6044813428

Status : Answered

Chosen Option :3

Q.20 Who is the current (as of April 2018) Prime Minister of Nepal?

- Ans
- ☒ 1. Pushpa Kamal Dahal
 - ☒ 2. Gagan Thapa
 - ☒ 3. Bidhya Devi Bhandari
 - ☒ 4. K.P. Sharma Oli

Question ID : 6044813407

Status : Answered

Chosen Option :4

Q.21 Name the South African President who stepped down in February 2018 following long-standing allegations of corruption against him.

- Ans
- ☒ 1. Robert Mugabe
 - ☒ 2. Hosni Mubarak
 - ☒ 3. Nelson Mandela
 - ☒ 4. Jacob Zuma

Question ID : 6044813411

Status : Answered

Chosen Option :4

Q.22 Which book won the 2017 Pulitzer Prize for fiction?

- Ans
- ☒ 1. The Ministry of Utmost Happiness
 - ☒ 2. The Underground Railroad
 - ☒ 3. The Wolves
 - ☒ 4. Days Without End

Question ID : 6044813433

Status : Answered

Chosen Option : 1

Q.23 Name the Pune-born engineer who has been honoured with the Scientific and Engineering Academy Award at the Oscars Scientific and Technical Awards 2018 at Los Angeles?

- Ans
- ☒ 1. Ajay Bhatt
 - ☒ 2. Sabeer Bhatia
 - ☒ 3. Vikas Sathaye
 - ☒ 4. Amit Singhal

Question ID : 6044813429

Status : Not Answered

Chosen Option : --

Q.24 Micky Jagtiani and his wife Renuka Jagtiani, Indian-origin billionaires in the Middle East, own which global conglomerate?

- Ans
- ☒ 1. Lulu Group
 - ☒ 2. D-Mart
 - ☒ 3. Future Group
 - ☒ 4. Landmark Group

Question ID : 6044813423

Status : Not Answered

Chosen Option : --

Q.25 Which Central Railway (CR) station in Mumbai recently earned the distinction of being the first-ever railway station to be completely operated by women?

- Ans
- ☒ 1. Kanjur Marg
 - ☒ 2. Vikhroli
 - ☒ 3. Ghatkopar
 - ☒ 4. Matunga

Question ID : 6044813422

Status : Answered

Chosen Option : 4

Q.26 Which country hosted the 8th Theater Olympics in the year 2018?

- Ans
- ☒ 1. Greece
 - ☒ 2. India
 - ☒ 3. South Korea
 - ☒ 4. China

Question ID : 6044813405

Status : Answered

Chosen Option : 2

Q.27 Which company recently set up a Guinness record by simultaneously launching and flying 500 drones in the same area? The record is titled as the 'Most Unmanned Aerial Vehicles Airborne Simultaneously'.

- Ans
- ☒ 1. Samsung
 - ☒ 2. Oracle
 - ☒ 3. Intel
 - ☒ 4. Cisco

Question ID : 6044813434

Status : Not Answered

Chosen Option : --

Q.28 Which author received the 2016 Man Booker Prize for the searing satirical work 'The Sellout'?

- Ans
- ☒ 1. Zadie Smith
 - ☒ 2. Sebastian Barry
 - ☒ 3. Paul Beatty
 - ☒ 4. Fiona Mozley

Question ID : 6044813419

Status : Not Answered

Chosen Option : --

Q.29 Which of the following food-related startups is primarily into making idli and dosa batter? The firm recently raised ₹ 150 crore from PremjiInvest.

- Ans
- ☒ 1. iD Fresh Food
 - ☒ 2. Fresh Menu
 - ☒ 3. Mast Kalandar
 - ☒ 4. Steammo

Question ID : 6044813425

Status : Not Answered

Chosen Option : --

Q.30 'Temperate House', the world's largest glasshouse, will be reopened to the public in 2018 after being under repair for the past couple of years. In which city is Temperate House located?

- Ans ☒ 1. London
☐ 2. Rome
☐ 3. Amsterdam
☐ 4. Paris

Question ID : 6044813417
Status : Not Answered
Chosen Option : --

Section : Reasoning

Q.1 Identify the odd one from the given words.

cotton, coffee, tea, coconut
1 2 3 4

- Ans ☐ 1. 3
☐ 2. 2
☒ 3. 1
☐ 4. 4

Question ID : 6044813451
Status : Answered
Chosen Option : 4

Q.2 Which of the given options is an essential part of election?

- Ans ☐ 1. Prime minister
☐ 2. Campaign
☒ 3. Voter
☐ 4. Nation

Question ID : 6044813446
Status : Answered
Chosen Option : 3

Q.3 Mr. Rajamouli Singh has seven sons, namely, A, B, C, D, E, F and G, who are sitting around a circular dining table, facing the centre and having their lunch. E is the neighbour of A and D. G is not between F and C and F is on the immediate right of A.

Which of the following combination has the persons sitting adjacent to each other from left to right in the order as given?

- Ans ☐ 1. EDG
☐ 2. CDG
☒ 3. FBC
☐ 4. BGC

Question ID : 6044813456
Status : Answered
Chosen Option : 3

Q.4 The two words given below are related to each other in a certain way. From the options, select the pair of words that are related to each other in the same way as the two given words.

Cuba : Havana : : _____ : _____

- Ans ☒ 1. Norway : Oslo
☐ 2. Portugal : Moscow
☐ 3. Russia : Lisbon
☐ 4. Denmark : Ottawa

Question ID : 6044813450
Status : Answered
Chosen Option : 1

Q.5 Observe the following table and fill the missing data.

9	2	6	8	7	8
7	6	7	6	2	?
B	D	A	B	E	A

- Ans ☐ 1. 5
☒ 2. 7
☐ 3. 6
☐ 4. 4

Question ID : 6044813462
Status : Answered
Chosen Option : 2

Q.6 Six friends, A, B, C, D, E and F, are sitting in a row facing North. C is sitting between A and E. D is not at any end of the row. B is sitting to the immediate right of E. F is not at the right end.

Who is at the extreme left?

- Ans
- ☒ 1. A
 - ☒ 2. F
 - ☒ 3. B
 - ☒ 4. C

Question ID : 6044813453

Status : Answered

Chosen Option : 2

Q.7 Which of the options is an essential part of facsimile?

- Ans
- ☒ 1. Image
 - ☒ 2. Words
 - ☒ 3. Lines
 - ☒ 4. Picture

Question ID : 6044813441

Status : Not Answered

Chosen Option : --

Q.8 ସତ୍ୟକୁ ଅବଦୂତ କରି ରପସ୍ଥାପନ କରିବା ସେତେବେଳେ ହୋଇଥାଏ, ଯେତେବେଳେ ଜଣେ ବ୍ୟକ୍ତି ସତ୍ୟ କାହାଣୀରେ କିଛି କାଳ୍ପନିକ କାହାଣୀ ଯୋଡ଼ିଥାନ୍ତି । ନିମ୍ନରେ ଦିଆଯାଇଥିବା କେଉଁ ପରିସ୍ଥିତି ସତ୍ୟକୁ ଠିକ୍ ଭାବେ ଉପସ୍ଥାପନ କରାଯାଇଥିବାର ସଠିକ୍ ଉଦାହରଣ ?

- Ans
- ☒ 1. ଜଣେ କ୍ରିକେଟ୍ କୋଚ୍ କହନ୍ତି ଯେ କେବଳ ସବୁଠାରୁ ଭଲ ଖେଳାଳି କଲେଜରେ ଯୋଧାବୃତ୍ତି ପାଇବାର ସମ୍ଭାବନା ରହିଛି ।
 - ☒ 2. ଜଣେ ଲେଖକ ତାଙ୍କ ଘର ବିପଦରେ ବର୍ଷନା କରନ୍ତି, ଯାହାକି ମହାସାଗରଠାରୁ ଏଗାର ଫୁଟ ଦୂରରେ ଅବସ୍ଥିତ ଓ ଜଳ ନିକଟରେ ଥିବା ଏକ ପ୍ରମୁଖ ସମ୍ପତ୍ତି ।
 - ☒ 3. ଗୀତା ଥିଏଟରକୁ ଯାଆନ୍ତି ଏବଂ ତାଙ୍କର ସହକର୍ମୀଙ୍କୁ କହନ୍ତି ଯେ ଏହି ନାଟକ ଭୟଙ୍କର ଥିଲା ।
 - ☒ 4. ଏକ ସ୍ୱନାମଧର ଶିକ୍ଷାବୃତ୍ତୀଙ୍କର ଚାକିରି ପାଇଁ ସାକ୍ଷାତକାର ପରିଚାଳନା କରିବା ସମୟରେ, ଦଶ ବର୍ଷ ପରି ଏକ ପ୍ରାଥମିକ ବିଦ୍ୟାଳୟରେ ପାଠ ପଢ଼ାଉଥିବା ରାମ ନିଜକୁ ଜଣେ ଅଭିଜ୍ଞ ଶିକ୍ଷକ ଭାବରେ ବର୍ଣ୍ଣନା କରନ୍ତି ।

Question ID : 6044813464

Status : Answered

Chosen Option : 4

Q.9 Find the odd one out.

D4W23	H8S19	M13N14	K11O15
a	b	c	d

- Ans
- ☒ 1. b
 - ☒ 2. c
 - ☒ 3. a
 - ☒ 4. d

Question ID : 6044813444

Status : Answered

Chosen Option : 4

Q.10 Which of the given options is an essential part of an itinerary?

- Ans
- ☒ 1. Compass
 - ☒ 2. Route
 - ☒ 3. Map
 - ☒ 4. Guide

Question ID : 6044813457

Status : Answered

Chosen Option : 3

Q.11 The following question consists of a statement followed by two assumptions, numbered I and II.

Consider the statement and the following assumptions and decide which of the assumptions is/are implicit in the statement.

Statement: The Telangana state government has decided to appoint two thousand junior college lecturers during the next financial year.

Assumption:

- I. There are enough junior colleges in the state to accommodate two thousand junior college lecturers.
- II. The eligible candidates may not be interested to apply as the Government may not finally appoint such a large number of junior college lecturers.

- Ans
- ☒ 1. Only assumption I is implicit.
 - ☒ 2. Neither assumption I nor II is implicit.
 - ☒ 3. Only assumption II is implicit.
 - ☒ 4. Either assumption I or II is implicit.

Question ID : 6044813452

Status : Answered

Chosen Option : 1

Q.12 Sunder, while jogging in a park, goes 15 km to the East, then turns to his left and goes for 4 km. Finally he turns to his left and goes for another 15 km. How far is he now from his initial point and in which direction, in relation to his initial point?

Question ID : 6044813458
Status : Answered
Chosen Option : 2

- Ans
- ☒ 1. 4 km, East direction
 - ☒ 2. 4 km, North direction
 - ☒ 3. 4 km, North-East direction
 - ☒ 4. 15 km, North direction

Q.13 If in a certain language, dodabim means soft stones, somzbim means soft beans and somzbako means wax beans, then which word could mean "wax candles"?

Question ID : 6044813439
Status : Answered
Chosen Option : 4

- Ans
- ☒ 1. dodasomz
 - ☒ 2. somzpeo
 - ☒ 3. lazvim
 - ☒ 4. wasibako

Q.14 Which option comes next in the following sequence?

Question ID : 6044813449
Status : Answered
Chosen Option : 2

2 1 11 1 2 11 3 7
5' 3' 15' 4' 3' 5' 4' 2' . . .

- Ans
- ☒ 1. $\frac{34}{18}$
 - ☒ 2. $\frac{34}{8}$
 - ☒ 3. $\frac{43}{8}$
 - ☒ 4. $\frac{43}{18}$

Q.15 Identify the odd one from the given words.

Question ID : 6044813437
Status : Answered
Chosen Option : 4

wheat, rice, maize, oilseeds
1 2 3 4

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

Q.16 In a code language, if 345 means sky is dark, 248 means hill is high and 576 means rooms are dark, then what is the code of sky?

Question ID : 6044813448
Status : Answered
Chosen Option : 4

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

Q.17 How many vowels are there in the following series which are immediately followed and immediately preceded by the same letter?

DOCZDEDDCZDCDICDDZDCDZUC

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

Question ID : 6044813445

Status : Answered

Chosen Option : 2

Q.18 Select the option that is related to the fourth term in the same way the first term is related to the second term.

Butterfly : Caterpillar :: _____ : Fawn

- Ans
- ☒ 1. Duck
 - ☒ 2. Swan
 - ☒ 3. Cat
 - ☒ 4. Stag

Question ID : 6044813436

Status : Answered

Chosen Option : 4

Q.19 Pointing to a photograph, Kajol said, "She is the aunt of my brother's sister". How is the person in the photograph related to Kajol?

- Ans
- ☒ 1. Daughter-in-law
 - ☒ 2. Niece
 - ☒ 3. Aunt
 - ☒ 4. Sister

Question ID : 6044813447

Status : Answered

Chosen Option : 3

Q.20 In the following question, a statement is followed by two arguments numbered I and II. You have to decide which of the arguments is/are 'strong' argument(s).

Statement: To fulfill the energy requirements, should India make efforts to make use of solar energy?

Arguments:

- I. Yes, the energy produced in India is mainly exhaustible.
- II. No. To set up solar energy plants, it will require a lot of capital, which India lacks.

- Ans
- ☒ 1. Only argument I is strong
 - ☒ 2. Either I or II is strong
 - ☒ 3. Only argument II is strong
 - ☒ 4. Neither I nor II is strong

Question ID : 6044813443

Status : Answered

Chosen Option : 1

Q.21 How many pairs of letters in the word 'PHONE' have as many letters between them in the word as in the English alphabet?

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

Question ID : 6044813460

Status : Answered

Chosen Option : 1

Q.22 Consider the following series:

B C S # D 1 2 A Z @ / * 4 3 5 0 P Q 7 1 1 ? % € 9 ₹ 8 0 2 L M 4 - 6 5 1 3 Z A K L R

In the series, consider only the numbers then, in the resultant series, find out how many numbers occur only twice.

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

Question ID : 6044813438

Status : Answered

Chosen Option : 1

Q.23 ଗୋଟିଏ ହଳ ଶବ୍ଦ ବିଆଯାଇଛି, ତାହାତଳେ ତାରି ହଳ ଶବ୍ଦର ଉତ୍ତର ଦିଆଯାଇଛି । ପ୍ରଥମ ଶବ୍ଦ ହଳ ମଧ୍ୟରେ ଯେଉଁ ସମ୍ପର୍କ ରହିଛି କେଉଁ ଉତ୍ତର ଶବ୍ଦ ହଳ ମଧ୍ୟରେ ସମାନ ସମ୍ପର୍କ ରହିଛି, ତାହା ବାଛନ୍ତୁ ।

ଆର୍ତ୍ତ : ଭିକାରୀ

- Ans
- ☒ 1. ଦର୍ବରତା : ହିଂସ୍ର
 - ☒ 2. ଅକର୍ମାଣ୍ୟତା : ସତର୍କତା
 - ☒ 3. ଭ୍ରମ : ଭ୍ରାନ୍ତି
 - ☒ 4. ଜଳାଭୟା : ପୋତିବା

Question ID : 6044813461

Status : Not Answered

Chosen Option : --

Q.24 Which of the options comes next in the following sequence?

(1,5), (2, 4), (3, 15), (4, 24), (5,15),

Question ID : 6044813435

Status : Answered

Chosen Option : 2

Ans ☒ 1. (6,13)

☒ 2. (6,24)

☒ 3. (6,27)

☒ 4. (6,10)

Q.25 If today is Tuesday, after 63 days, it will be:

Question ID : 6044813442

Status : Answered

Chosen Option : 4

Ans ☒ 1. Monday

☒ 2. Friday

☒ 3. Saturday

☒ 4. Tuesday

Q.26 Arrange the following words in the order they would normally appear in an English dictionary.

Question ID : 6044813454

Status : Answered

Chosen Option : 4

- 1) arctic
- 2) artful
- 3) artifice
- 4) artifact

Ans ☒ 1. 2,1,4,3

☒ 2. 1,2,3,4

☒ 3. 2,1,3,4

☒ 4. 1,2,4,3

Q.27 Identify the odd one from the given words.

Question ID : 6044813463

Status : Answered

Chosen Option : 1

Noodles, chowmein, spring rolls, biryani

1 2 3 4

Ans ☒ 1. 4

☒ 2. 2

☒ 3. 3

☒ 4. 1

Q.28 In a certain language,
dranatelke means big plant
binitelke means little plant
telkehoon means plant seed

Question ID : 6044813455

Status : Answered

Chosen Option : 2

Which word could mean "big seed"?

Ans ☒ 1. telkegrana

☒ 2. dranahoon

☒ 3. pinishur

☒ 4. binihoon

Q.29 The following question is followed by two statements. Identify which of the statements is/are sufficient to answer the question.

The total marks obtained by Ram, Sita, Surya and Laxman in Social Studies is 360. How many marks did Ram secure in Social studies?

- I. Ram secured two-third marks of the total of Sita, Surya and Laxman
- II. Average marks obtained by Surya and Laxman is 20

Ans ☒ 1. Statement II alone is sufficient to answer the question
☒ 2. Both statements I and II together are not sufficient to answer the question
☒ 3. Statement I alone is sufficient to answer the question.
☒ 4. Both statements I and II together are necessary to answer the question

Question ID : 6044813459
Status : Answered
Chosen Option : 3

Q.30 Letters of a word have been jumbled up and numbered. Choose the option which gives the correct order of the letters as indicated by the numbers to form the word.

I L E C R T
1 2 3 4 5 6

Ans ☒ 1. 5, 3, 2, 1, 4, 6
☒ 2. 5, 3, 2, 4, 1, 6
☒ 3. 5, 3, 2, 1, 6, 4
☒ 4. 3, 5, 2, 1, 4, 6

Question ID : 6044813440
Status : Not Answered
Chosen Option : --

Section : Subject Content and Methodology

Q.1 The point of intersection of the lines $x + y = 1$ and $x - y = 1$ is:

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

Question ID : 6044813490
Status : Answered
Chosen Option : 4

Q.2 A boat having a length of 4 m and a breadth of 2 m is floating on a lake. The boat sinks by 1 cm when a man gets into it. The mass of the man is:

Ans ☒ 1. 50 kg
☒ 2. 80 kg
☒ 3. 70 kg
☒ 4. 60 kg

Question ID : 6044813536
Status : Answered
Chosen Option : 2

Q.3 If $b < 0$, then function $f(x) = bx^2 + ax + c$:

Ans ☒ 1. is constant
☒ 2. has the minimum value
☒ 3. is positive
☒ 4. has the maximum value

Question ID : 6044813484
Status : Answered
Chosen Option : 4

Q.4 Find the minimum number of students required in a class to be sure that three of them are born in the same month.

Ans ☒ 1. 20
☒ 2. 25
☒ 3. 15
☒ 4. 10

Question ID : 6044813516
Status : Answered
Chosen Option : 3

Q.5 What is the number of permutations of the letters of the word 'BANANA'?

- Ans ☒ 1. 60
☐ 2. 20
☐ 3. 30
☐ 4. 40

Question ID : 6044813514

Status : Answered

Chosen Option : 1

Q.6 What is the best description of -4 ?

- Ans ☒ 1. Integer, Rational Number, Real Number
☐ 2. Whole Number, Integer, Real Number
☐ 3. Rational Number, Real Number
☐ 4. Irrational Number, Real Number

Question ID : 6044813466

Status : Answered

Chosen Option : 1

Q.7 Two numbers ' a ' and ' b ' are selected successively without replacement in that order from the integers 1 to 10. The probability that $\frac{a}{b}$ is an integer is:

- Ans ☐ 1. $\frac{17}{45}$
☐ 2. $\frac{8}{45}$
☒ 3. $\frac{17}{90}$
☐ 4. $\frac{1}{5}$

Question ID : 6044813554

Status : Answered

Chosen Option : 4

Q.8 The degree of polynomials is:

- Ans ☒ 1. the highest power of x
☐ 2. the lowest power of x
☐ 3. the smallest coefficient of x
☐ 4. the largest coefficient of x

Question ID : 6044813482

Status : Answered

Chosen Option : 1

Q.9 Which of the following inequalities is useful for interpreting variance?

- Ans ☒ 1. Chebyshev
☐ 2. Statutory
☐ 3. All of the given options
☐ 4. Testory

Question ID : 6044813549

Status : Answered

Chosen Option : 1

Q.10 A root of an equation that does not satisfy the equation is called:

- Ans ☐ 1. Reflective root
☒ 2. Extraneous root
☐ 3. Square root
☐ 4. Complex root

Question ID : 6044813500

Status : Answered

Chosen Option : 2

Q.11 The first known proof that 'the circle is bisected by its diameter' was given by:

- Ans ☐ 1. Hypatia
☐ 2. Euclid
☒ 3. Thales
☐ 4. Pythagoras

Question ID : 6044813527

Status : Answered

Chosen Option : 2

Q.12 For what value of k do the equations $3x - y + 8 = 0$ and $6x - ky + 16 = 0$ represent coincide lines?

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

Question ID : 6044813489

Status : Answered

Chosen Option : 2

Q.13 If $x^2 + y^2 + z^2 = 1$, then what is the maximum value of $x + 2y + 3z = ?$

- Ans
- ☒ 1. $\sqrt{14}$
 - ☒ 2. $\sqrt{12}$
 - ☒ 3. $\sqrt{11}$
 - ☒ 4. $\sqrt{13}$

Question ID : 6044813508

Status : Answered

Chosen Option : 1

Q.14 If $b^2 - 4ac > 0$ and a perfect square, then the roots of $ax^2 + bx + c = 0$ are:

- Ans
- ☒ 1. Imaginary
 - ☒ 2. Equal
 - ☒ 3. Rational
 - ☒ 4. Irrational

Question ID : 6044813501

Status : Answered

Chosen Option : 3

Q.15 What is the probability of getting a sum of 9 from two throws of a dice?

- Ans
- ☒ 1. $\frac{1}{9}$
 - ☒ 2. $\frac{1}{8}$
 - ☒ 3. $\frac{1}{12}$
 - ☒ 4. $\frac{1}{6}$

Question ID : 6044813553

Status : Answered

Chosen Option : 1

Q.16 How many bricks, each measuring $25\text{ cm} \times 10\text{ cm} \times 5\text{ cm}$, will be needed to build a wall measuring $10\text{ m} \times 5\text{ m} \times 20\text{ m}$?

- Ans
- ☒ 1. 5×10^5
 - ☒ 2. 4×10^5
 - ☒ 3. 3×10^5
 - ☒ 4. 8×10^5

Question ID : 6044813537

Status : Answered

Chosen Option : 4

Q.17 The distance between two points $(3, -2)$ and $(6, 4)$ is:

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

Question ID : 6044813530

Status : Answered

Chosen Option : 3

Q.18 If $b^2 - 4ac < 0$, then the roots of $ax^2 + bx + c = 0$ are:


- Ans
- ☒ 1. Equal
 - ☒ 2. Rational
 - ☒ 3. Irrational
 - ☒ 4. Imaginary


Question ID : 6044813497


Status : Answered


Chosen Option : 4

Q.19 If a line parallel to side BC of a triangle ABC intersects AB and AC at D and E, respectively, then:

Ans  1. $\frac{AE}{DB} = \frac{AD}{EC}$

 2. None of the given options.

 3. $\frac{AD}{EC} = \frac{AE}{DB}$

 4. $\frac{AD}{DB} = \frac{AE}{EC}$


Question ID : 6044813562


Status : Answered

Chosen Option : 4

Q.20 The point $(-4, -2)$ lies on a circle. What is the length of the radius of the circle if the centre is located at $(-8, -10)$?

Ans  1. $4\sqrt{5}$

 2. $2\sqrt{5}$

 3. $\sqrt{5}$


 4. $3\sqrt{5}$


Question ID : 6044813532


Status : Answered


Chosen Option : 1

Q.21 If a and b are real numbers such that $ab \neq 0$, then which of the following statements is true?

Ans  1. All of the given options.

 2. Both a and b must be zero.

 3. Both a and b must be non-zero.

 4. Either a or b must be non-zero.


Question ID : 6044813558


Status : Answered


Chosen Option : 3

Q.22 Conditions such as large sample size to represent the population and random drawing of samples are included in:

Ans  1. the Principle of Inertia

 2. the Principle of Sampling Error

 3. the Principle of Statistical Regularity


 4. the Principle of Statistical Irregularity


Question ID : 6044813551


Status : Not Answered


Chosen Option : --

Q.23 Variables of linear equations are implicitly raised to:

Ans  1. Third Power

 2. Fourth Power

 3. First Power


 4. Second Power


Question ID : 6044813485


Status : Answered


Chosen Option : 3

Q.24 The solution set of the equation $x^2 - 2x + 3 = 0$ is:

Ans  1. $(1 \pm i\sqrt{2})$

 2. $\pm i$

 3. ± 1

 4. $\pm i\sqrt{2}$

Question ID : 6044813498

Status : Answered

Chosen Option : 1

Q.25 Solve the following system:

$$x \equiv 1 \pmod{2}$$

$$x \equiv 2 \pmod{3}$$

$$x \equiv 3 \pmod{5}$$

Ans ☐ 1. $x \equiv 3 \pmod{5}$

☐ 2. $x \equiv 21 \pmod{30}$

☒ 3. $x \equiv 23 \pmod{30}$

☐ 4. $x \equiv 2 \pmod{3}$

Question ID : 6044813474

Status : Answered

Chosen Option : 3

Q.26 If $x^4 - 3x + 5$ is divided by $2x - 1$, then the remainder is:

Ans ☒ 1. $\frac{57}{16}$

☐ 2. 3

☐ 3. 10

☐ 4. -9

Question ID : 6044813479

Status : Answered

Chosen Option : 1

Q.27 AD bisects the angle A of triangle ABC and meets BC at D such that $\frac{BD}{DC} = \frac{AB}{AC}$. If $BC = k$, $CA = l$ and $AB = m$, then the length of DC is:

Ans ☒ 1. $\frac{kl}{m+l}$

☐ 2. $\frac{m}{k+l}$

☐ 3. $\frac{km}{m+l}$

☐ 4. $\frac{k(m+l)}{l}$

Question ID : 6044813529

Status : Answered

Chosen Option : 1

Q.28 Given that $ABCD$ is a parallelogram and $\angle B = 80^\circ$. What can you conclude about the other angles of the parallelogram?

Ans ☐ 1. $\angle D = 100^\circ, \angle C = 100^\circ, \angle A = 180^\circ$.

☐ 2. None of the given options.

☒ 3. $\angle A = 100^\circ, \angle C = 100^\circ, \angle D = 180^\circ$.

☐ 4. $\angle A = 100^\circ, \angle D = 100^\circ, \angle C = 180^\circ$.

Question ID : 6044813561

Status : Answered

Chosen Option : 2

Q.29 If $x^2 - 1$ is a factor of $ax^4 + bx^3 + cx^2 + dx + e$, then:

Ans ☐ 1. $a + c + c = d + e$

☒ 2. $a + c + e = b + d$

☐ 3. $a + c + e = c + d$

☐ 4. $b + c + d = a + e$

Question ID : 6044813483

Status : Answered

Chosen Option : 2

Q.30 The vertices of the triangle formed by the lines $5x - y = 5$, $x + 2y = 1$ and $6x + y = 17$ are:

Ans ☐ 1. $(-1, 0), (3, -1), (2, 5)$

☐ 2. $(1, 0), (3, -1), (-2, 5)$

☒ 3. $(1, 0), (3, -1), (2, 5)$

☐ 4. $(1, 0), (-3, -1), (2, 5)$

Question ID : 6044813496

Status : Answered

Chosen Option : 3

Q.31 Write the n^{th} term of the A.P. $\frac{1}{m}, \frac{1+m}{m}, \frac{1+2m}{m}, \dots$

- Ans
- ☒ 1. $\frac{m(n-1)+1}{m}$
 - ☐ 2. $\frac{m(n+1)+1}{m}$
 - ☐ 3. $\frac{m(n+1)}{m}$
 - ☐ 4. $\frac{m(n-1)}{m}$

Question ID : 6044813504

Status : Answered

Chosen Option : 1

Q.32 When the surface area of a sphere is divided by the sphere's volume, the result is $\frac{1}{18}$ cm. What is the radius of the sphere?

- Ans
- ☒ 1. 54
 - ☐ 2. 6
 - ☐ 3. 24
 - ☐ 4. 5

Question ID : 6044813539

Status : Answered

Chosen Option : 1

Q.33 Two unbiased coins are tossed. What is the probability of at most one tail?

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

Question ID : 6044813552

Status : Answered

Chosen Option : 4

Q.34 Find the rank of the following matrix:

$$\begin{bmatrix} 1 & 2 & 1 \\ 2 & 2 & 2 \\ 3 & 1 & 4 \end{bmatrix}$$

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

Question ID : 6044813478

Status : Answered

Chosen Option : 2

Q.35 Write the converse of the following statement. Also, decide whether the converse is true or false.

If a , b and c are whole numbers, then $a + (b + c) = (a + b) + c$.

- Ans
- ☐ 1. If $a + (b + c) = (a + b) + c$, then a , b and c are integers. True.
 - ☐ 2. If $a + (b + c) = (a + b) + c$, then a , b and c are integers. False.
 - ☒ 3. If $a + (b + c) = (a + b) + c$, then a , b and c are whole numbers. False.
 - ☐ 4. If $a + (b + c) = (a + b) + c$, then a , b and c are whole numbers. True.

Question ID : 6044813564

Status : Answered

Chosen Option : 1

Q.36 Which of the following is one of the categories of statistical methods?

- Ans
- ☐ 1. Industry statistics
 - ☐ 2. Decision science
 - ☐ 3. Managerial statistics
 - ☒ 4. Inferential statistics

Question ID : 6044813555

Status : Not Answered

Chosen Option :--

Q.37 The slope of the line perpendicular to the line $2y + 6x = 24$ is:

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

Question ID : 6044813533

Status : Answered

Chosen Option : 3

Q.38 The joint equation of the bisector of the angles between the lines represented by $ax^2 + 2hxy + by^2 = 0$ is:

- Ans
- ☐ 1. $\frac{x^2 - y^2}{a} = \frac{xy}{h^2}$
 - ☐ 2. $\frac{x^2 + y^2}{a + b} = \frac{xy}{h}$
 - ☐ 3. $\frac{x^2 - y^2}{h} = \frac{xy}{a - b}$
 - ☒ 4. $\frac{x^2 - y^2}{a - b} = \frac{xy}{h}$

Question ID : 6044813534

Status : Not Answered

Chosen Option :--

Q.39 If a polynomial $p(x)$ is divided by a linear division $(x - b)$, then the remainder is:

- Ans
- ☐ 1. $p(1)$
 - ☐ 2. $p(2)$
 - ☐ 3. $p(0)$
 - ☒ 4. $p(b)$

Question ID : 6044813480

Status : Answered

Chosen Option : 4

Q.40 What is a measure of spread of a random variable?

- Ans
- ☒ 1. Variance
 - ☐ 2. Standard Deviation
 - ☐ 3. All of the given options
 - ☐ 4. Empirical Mean

Question ID : 6044813548

Status : Not Answered

Chosen Option :--

Q.41 Which of the following represents a rational number between a and b where $a, b \in \mathbb{Q}$.

- Ans
- ☐ 1. ab
 - ☒ 2. $\frac{a+b}{2}$
 - ☐ 3. $\frac{a-b}{2}$
 - ☐ 4. \sqrt{ab}

Question ID : 6044813468

Status : Answered

Chosen Option : 2

Q.42 If the radii of the circular ends of a conical bucket are 28 cm and 7 cm and the height of the bucket is 45 cm, what is the capacity of the bucket ($\pi = \frac{22}{7}$)?

- Ans
- ☒ 1. 48510
 - ☐ 2. 48000
 - ☐ 3. 48100
 - ☐ 4. 48500

Question ID : 6044813540

Status : Answered

Chosen Option : 1

Q.43 Which of the following correctly expresses $\sin 160^\circ$ in terms of trigonometrical ratios?

- Ans
- ☐ 1. $\sin 10^\circ$
 - ☒ 2. $\sin 20^\circ$
 - ☐ 3. $\sin 30^\circ$
 - ☐ 4. $\sin 70^\circ$

Question ID : 6044813542

Status : Answered

Chosen Option : 2

Q.44 If a capacity c of a lift is at most 1200 pounds, it means that:

- Ans
- ☐ 1. $c = 1200$
 - ☐ 2. $c > 1200$
 - ☒ 3. $c \leq 1200$
 - ☐ 4. $c < 1200$

Question ID : 6044813511

Status : Answered

Chosen Option : 3

Q.45 The midpoint of the line joining $(4, -2)$ and $(-8, 6)$ is:

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

Question ID : 6044813531

Status : Answered

Chosen Option : 3

Q.46 The solution of $4x - 3 > 6$ is:

- Ans
- ☐ 1. $x > 2$
 - ☒ 2. $x > \frac{9}{4}$
 - ☐ 3. $x > \frac{4}{9}$
 - ☐ 4. $x > 1$

Question ID : 6044813513

Status : Answered

Chosen Option : 2

Q.47 $f(x) = \sin x$ is strictly increasing in the interval:

- Ans
- ☐ 1. $\left(-\frac{\pi}{2}, \pi\right)$
 - ☐ 2. $(0, \pi)$
 - ☒ 3. $\left(2n\pi - \frac{\pi}{2}, 2n\pi + \frac{\pi}{2}\right)$
 - ☐ 4. $(-\pi, \pi)$

Question ID : 6044813523

Status : Answered

Chosen Option : 3

Q.48 If $\{v_1, v_2, \dots, v_n\}$ is the basis of $V = C^0$, and T is a linear operator on V defined by $T(v_i) = v_{i+1}$, then which of the following is correct?

- Ans
- ☐ 1. T is regular and has rational eigenvalues.
 - ☒ 2. T is singular and has rational eigenvalues.
 - ☐ 3. T is singular and does not have rational eigenvalues.
 - ☐ 4. T is regular and does not have rational eigenvalues.

Question ID : 6044813477

Status : Not Answered

Chosen Option : --

Q.49 The equation of the family of the circles that touch both the coordinate axes can be put in the form of:

- Ans
- ☒ 1. $x^2 - y^2 + 2hx + 2hy + h^2 = 0$
 - ☒ 2. $x^2 + y^2 + 2hx + 2hy - h^2 = 0$
 - ☒ 3. $x^2 + y^2 - 2hx - 2hy + h^2 = 0$
 - ☒ 4. $x^2 + y^2 - hx - hy + h^2 = 0$

Question ID : 6044813535

Status : Answered

Chosen Option : 3

Q.50 A box contains 8 blue and 6 red socks. What is the number of ways that 2 socks can be drawn from the box such that they have the same colour?

- Ans
- ☒ 1. 43
 - ☒ 2. 40
 - ☒ 3. 42
 - ☒ 4. 41

Question ID : 6044813518

Status : Answered

Chosen Option : 1

Q.51 The subject matter for a teaching unit in Mathematics can be based on:

- Ans
- ☒ 1. All of the given options
 - ☒ 2. the identification and listing, if necessary, of competencies desired to be developed
 - ☒ 3. the materials from other fields pertinent to the study of the problem
 - ☒ 4. the scope of the topic

Question ID : 6044813559

Status : Answered

Chosen Option : 1

Q.52 If a spherical ball of radius r is melted to make 8 new identical balls each of radius r_1 , then:
 $r : r_1 = ?$

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

Question ID : 6044813538

Status : Answered

Chosen Option : 2

Q.53 If α and β are the roots of the equation $3x^2 + 4x - 3 = 0$, then the values of $\alpha + \beta$ and $\alpha\beta$ are respectively:

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

Question ID : 6044813499

Status : Answered

Chosen Option : 2

Q.54 Find the fifth term of the given sequence.

15, 25, 35, ...

- Ans
- ☒ 1. 65
 - ☒ 2. 55
 - ☒ 3. 45
 - ☒ 4. 75

Question ID : 6044813506

Status : Answered

Chosen Option : 2

Q.55 For two different finite sets A and B , Inclusion-Exclusion relation states that:

- Ans
- ☒ 1. $n(A \cup B) = n(A) - n(B) + n(A \cap B)$
 - ☒ 2. $n(A \cup B) = n(A) - n(B) - n(A \cap B)$
 - ☒ 3. $n(A \cup B) = n(A) + n(B) + n(A \cap B)$
 - ☒ 4. $n(A \cup B) = n(A) + n(B) - n(A \cap B)$

Question ID : 6044813517

Status : Answered

Chosen Option : 4

Q.56 Find the derivative of $\cos^{-1}(\cot x)$.

Question ID : 6044813524

Status : Answered

Chosen Option : 3

- Ans
- ☐ 1. $\cot x$
 - ☐ 2. $\frac{\cot^2 x}{\sqrt{1-\csc^2 x}}$
 - ☒ 3. $\frac{\csc^2 x}{\sqrt{1-\cot^2 x}}$
 - ☐ 4. $\csc^2 x$

Q.57 For any positive integer n , 7 divides:

Question ID : 6044813471

Status : Answered

Chosen Option : 4

- Ans
- ☐ 1. $3^{2n} + 2^{n+2}$
 - ☐ 2. $3^{n+1} + 2^{n+2}$
 - ☐ 3. $3^{2n} + 2^n$
 - ☒ 4. $3^{2n+1} + 2^{n+2}$

Q.58 If $a = 8$, $a_n = 120$ and $d = 2$, then n is equal to:

Question ID : 6044813503

Status : Answered

Chosen Option : 2

- Ans
- ☐ 1. 55
 - ☒ 2. 57
 - ☐ 3. 58
 - ☐ 4. 56

Q.59 Find the value of n such that

Question ID : 6044813519

Status : Answered

Chosen Option : 3

$$P_5^n = 42 \cdot P_3^n, n > 4$$

- Ans
- ☐ 1. 13
 - ☐ 2. 12
 - ☒ 3. 10
 - ☐ 4. 11

Q.60 To add or subtract a positive number from both sides of any inequality without any change in the equality sign is called the:

Question ID : 6044813510

Status : Answered

Chosen Option : 1

- Ans
- ☒ 1. Additive Property of Inequality
 - ☐ 2. Distributive Property of Inequality
 - ☐ 3. Transitive Property of Inequality
 - ☐ 4. Multiplicative Property of Inequality

Q.61 If both a and b are rational numbers, then find the values of a and b in the following example:

Question ID : 6044813469

Status : Answered

Chosen Option : 3

$$\frac{\sqrt{2}+\sqrt{3}}{3\sqrt{2}-2\sqrt{3}} = a - b\sqrt{6}$$

- Ans
- ☐ 1. $a = -4$ and $b = 1$
 - ☐ 2. $a = 4$ and $b = -1$
 - ☒ 3. $a = 2$ and $b = -\frac{5}{6}$
 - ☐ 4. $a = -2$ and $b = \frac{5}{6}$

Q.62 The solution of the linear congruence $4x \equiv 5 \pmod{9}$ is:

- Ans
- ☐ 1. $10 \pmod{9}$
 - ☒ 2. $8 \pmod{9}$
 - ☐ 3. $9 \pmod{9}$
 - ☐ 4. $6 \pmod{9}$

Question ID : 6044813473
Status : Answered
Chosen Option : 2

Q.63 The square root of variance is called:

- Ans
- ☐ 1. Mean
 - ☒ 2. Standard Deviation
 - ☐ 3. Empirical Deviation
 - ☐ 4. Continuous Deviation

Question ID : 6044813550
Status : Answered
Chosen Option : 2

Q.64 For what values of p and q will the following pair of linear equations have infinitely many solutions?

$$4x + 5y = 2$$

$$(2p + 7q)x + (p + 8q)y = 2q - p + 1$$

- Ans
- ☐ 1. $p = 1, q = 2$
 - ☐ 2. $p = -1, q = -2$
 - ☐ 3. $p = 1, q = -2$
 - ☒ 4. $p = -1, q = 2$

Question ID : 6044813494
Status : Answered
Chosen Option : 4

Q.65 The inverse of 19 mod 141 is:

- Ans
- ☐ 1. 51
 - ☐ 2. 55
 - ☒ 3. 52
 - ☐ 4. 50

Question ID : 6044813472
Status : Not Answered
Chosen Option : --

Q.66 What is the sum of the terms of the given series?

20, 25, 30, ..., 150

- Ans
- ☒ 1. 2295
 - ☐ 2. 2529
 - ☐ 3. 2925
 - ☐ 4. 5292

Question ID : 6044813505
Status : Answered
Chosen Option : 1

Q.67 For $a, b \in \mathbb{R}; a \neq 0, b \neq 0, a > b$ imply:

- Ans
- ☐ 1. $a = b$
 - ☐ 2. $a < b$
 - ☐ 3. $\frac{1}{a} > \frac{1}{b}$
 - ☒ 4. $\frac{1}{a} < \frac{1}{b}$

Question ID : 6044813467
Status : Answered
Chosen Option : 4

Q.68 The sum of the digits of a two-digit number is 9. If 27 is added to it, the digits of the number are reversed, then the number is:

- Ans
- ☐ 1. 72
 - ☐ 2. 63
 - ☒ 3. 36
 - ☐ 4. 25

Question ID : 6044813493
Status : Answered
Chosen Option : 3

Q.69 The value of c for which the pair of equations $cx - y = 2$ and $6x - 2y = 3$ will have infinitely many solutions is:

- Ans ☒ 1. No value
☐ 2. 3
☐ 3. -10
☐ 4. -12

Question ID : 6044813491
Status : Answered
Chosen Option : 1

Q.70 Re-state the following statement with an appropriate condition such that they become true:

If $(x + y)^2 = x^2 + y^2$, then $x = 0$.

- Ans ☐ 1. The statement is false.
☒ 2. If $(x + y)^2 = x^2 + y^2$ and $y \neq 0$ then $x = 0$.
☐ 3. If $(x + y)^2 = x^2 + y^2$, then $x = 0$.
☐ 4. If $(x + y)^2 = x^2 + y^2$, then $x, y = 0$.

Question ID : 6044813557
Status : Answered
Chosen Option : 2

Q.71 Solve the following equations for x and y .

$$(\sqrt{32})^x \div 2^{y+1} = 1$$

$$16^{4-\frac{x}{2}} - 8y = 0$$

- Ans ☐ 1. $x = 4$ and $y = 2$
☐ 2. $x = 4$ and $y = 3$
☐ 3. $x = 3$ and $y = 4$
☒ 4. $x = 2$ and $y = 4$

Question ID : 6044813470
Status : Answered
Chosen Option : 4

Q.72 A Mathematics Teacher needs to be a specialist in:

- Ans ☐ 1. Technological Tools
☐ 2. Content Area
☒ 3. All of the given options
☐ 4. Pedagogy

Question ID : 6044813556
Status : Answered
Chosen Option : 3

Q.73 If a function on R is defined by $f(x) = 1$ when x is rational and $f(x) = -1$ when x is irrational, then $f(x)$ is discontinuous at:

- Ans ☐ 1. 1
☐ 2. 2
☒ 3. R
☐ 4. 0

Question ID : 6044813520
Status : Not Answered
Chosen Option : --

Q.74 If $a, b, c, d \in R$ and $a + b + c + d = 1$, then what is the minimum value of $a^2 + b^2 + c^2 + d^2$?

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

Question ID : 6044813509
Status : Answered
Chosen Option : 1

Q.75 If in a general quadratic equation, $b = 0$, then it is called a:

- Ans ☐ 1. Complex equation
☐ 2. Simple equation
☒ 3. Pure Quadratic equation
☐ 4. Linear equation

Question ID : 6044813502
Status : Answered
Chosen Option : 2

Q.76 A pyramid is a solid figure, the base of which is:

Question ID : 6044813526

Ans ☒ 1. only a polygon

Status : Answered

☐ 2. only a square

Chosen Option : 1

☐ 3. only a triangle

☐ 4. only a rectangle

Q.77 Two houses are in front of each other. Both have chimneys on their top. The line joining the chimneys makes an angle of 45° with the ground. How far are the houses (in m) from each other if one house is 25 m and other is 10 m in height?

Question ID : 6044813544

Ans ☐ 1. 7.5

Status : Answered

☒ 2. 15

Chosen Option : 2

☐ 3. 12

☐ 4. 18

Q.78 Means of evaluation of a Mathematics lesson are for:

Question ID : 6044813563

Ans ☐ 1. finding out the weaknesses of pupils

Status : Answered

☐ 2. judging the achievement of pupils

Chosen Option : 3

☒ 3. All of the given options

☐ 4. suggesting the level of attainment of objectives

Q.79 A poster is on top of a building. Rajesh is standing on the ground at a distance of 50 m from the building. The angles of elevation to the top of the poster and the bottom of the poster are 45° and 30° , respectively. What is the height of the poster?

Question ID : 6044813543

Ans ☒ 1. $\frac{50(\sqrt{3}-1)}{\sqrt{3}}$

Status : Answered

☐ 2. $50\sqrt{3}$

Chosen Option : 1

☐ 3. $25\sqrt{3}$

☐ 4. None of the given options

Q.80 When $|x + y| = |x| + |y|, x, y \in R$, if:

Question ID : 6044813465

Ans ☐ 1. $xy < 0$

Status : Answered

☒ 2. $xy \geq 0$

Chosen Option : 2

☐ 3. $x, y \leq 0$

☐ 4. $xy > 0$

Q.81 For the given equations, find the values of a and b such that that infinite solutions are obtained.

Question ID : 6044813488

$$2x + 3y = 7$$

$$(a + b)x + (2a - b)y = 21$$

Ans ☒ 1. $a = 5, b = 1$

Status : Answered

☐ 2. $a = 5, b = 5$

Chosen Option : 1

☐ 3. $a = 1, b = 5$

☐ 4. $a = 1, b = 1$

Q.82 Which of the following represents the dimension of the vector space of all matrices of the order $m \times n$ if the sum of each row is 0?

Question ID : 6044813475

Ans ☒ 1. $mn - m$

Status : Not Answered

☐ 2. $mn + m$

Chosen Option : --

☐ 3. $mn + n$

☐ 4. $mn - n$

Q.83 The number of dimensions of a surface is:

Ans ☒ 1. 2

☐ 2. 3

☐ 3. 1

☐ 4. 0

Question ID : 6044813525

Status : Answered

Chosen Option : 2

Q.84 A room is 6 m long, 5 m broad and 3 m height. The maximum length of a rod that can be kept in the room is:

Ans ☐ 1. $\sqrt{76}$ m

☐ 2. $\sqrt{77}$ m

☐ 3. $\sqrt{75}$ m

☒ 4. $\sqrt{70}$ m

Question ID : 6044813541

Status : Answered

Chosen Option : 4

Q.85 For x, y, z , if $x > y$, $y > z$ and $x > z$, then this property is said to be:

Ans ☐ 1. Additive

☒ 2. Transitive

☐ 3. Multiplicative

☐ 4. Distributive

Question ID : 6044813512

Status : Answered

Chosen Option : 2

Q.86 In how many ways can 8 Indians, 5 Americans and 4 Englishmen can be seated in a row such that all persons of the same nationality are sitting together?

Ans ☐ 1. $3! 5! 4!$

☐ 2. $3! 8! 5!$

☒ 3. $3! 8! 5! 4!$

☐ 4. $8! 5! 4!$

Question ID : 6044813515

Status : Answered

Chosen Option : 3

Q.87 The area of a triangle formed by the pair of lines $x - y = -2$ and $4x - y = 4$ and the x -axis is:

Ans ☒ 1. 6 sq. units

☐ 2. 4 sq. units

☐ 3. 5 sq. units

☐ 4. 3 sq. units

Question ID : 6044813495

Status : Answered

Chosen Option : 2

Q.88 The value of $\tan 1, \tan 2, \dots, \tan 89$ is:

Ans ☒ 1. 1

☐ 2. 2

☐ 3. 0

☐ 4. $\frac{1}{2}$

Question ID : 6044813545

Status : Answered

Chosen Option : 1

Q.89 Considering the cosine rule of any triangle ABC, which of the following options describes the possible measures of angle A?

Ans ☐ 1. Angle A is acute.

☐ 2. Angle A is a right angle.

☒ 3. All of the given options.

☐ 4. Angle A is obtuse.

Question ID : 6044813546

Status : Answered

Chosen Option : 3

Q.90 Which of the following represents the dimension of the vector space of scalar matrices of the order $n \times n$ whose trace is 0?

Ans ☐ 1. n

☐ 2. 1

☐ 3. 2

☒ 4. 0

Question ID : 6044813476

Status : Not Answered

Chosen Option : --

Q.91 If in a pair of linear equations, the equations are consistent, then their corresponding lines will be:

- Ans
- ☐ 1. always coincident
 - ☐ 2. parallel
 - ☐ 3. always intersecting
 - ☒ 4. intersecting or coincident

Question ID : 6044813492

Status : Answered

Chosen Option : 1

Q.92 Take any three consecutive even numbers and find their product. Make a conjecture about these products:

- Ans
- ☒ 1. All of the given options.
 - ☐ 2. The product of any three consecutive even numbers is even.
 - ☐ 3. The product of any three consecutive even numbers is divisible by 4.
 - ☐ 4. The product of any three consecutive even numbers is divisible by 6.

Question ID : 6044813560

Status : Answered

Chosen Option : 1

Q.93 If a specific number $x = 2$ is substituted for variable x in the polynomial such that the value is 0, then $x = 2$ is said to be:

- Ans
- ☐ 1. Zero Coefficient
 - ☒ 2. Zero of the Polynomial
 - ☐ 3. Rational Number
 - ☐ 4. Conjugate Surd

Question ID : 6044813481

Status : Answered

Chosen Option : 2

Q.94 The expected value or _____ of a random variable is the centre of its distribution.

- Ans
- ☒ 1. Mean
 - ☐ 2. Mode
 - ☐ 3. Median
 - ☐ 4. Bayesian inference

Question ID : 6044813547

Status : Answered

Chosen Option : 1

Q.95 If two variables, x and y , are involved in a linear equation, then the equation is:

- Ans
- ☐ 1. $ab + xy = c$
 - ☐ 2. $ac + xy = b$
 - ☒ 3. $ax + by = c$
 - ☐ 4. $xy + bc = a$

Question ID : 6044813486

Status : Answered

Chosen Option : 3

Q.96 If Signum function $f(x) = \frac{x}{|x|}$ when $x \neq 0$ and $f(x) = -1$ when $x = 0$, then it is discontinuous at:

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

Question ID : 6044813521

Status : Answered

Chosen Option : 3

Q.97 If the graph of the equation $4x + 3y = 12$ cuts the coordinate axes at A and B , then the hypotenuse of the right triangle AOB is of the length of:

- Ans
- ☐ 1. None of the given options
 - ☐ 2. 3
 - ☐ 3. 4
 - ☒ 4. 5

Question ID : 6044813487

Status : Answered

Chosen Option : 4

Q.98 If $I_n = \frac{d^n}{dx^n}(x^n \log x)$ and $I_n = nI_{n-1} + (n-1)!$, then which of the following is correct?

Question ID : 6044813522

Status : Answered

Chosen Option : 2

Ans ☒ 1. $I_n = (n+1)! \left(\log x + 1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n-1} + \frac{1}{n} \right)$

☒ 2. $I_n = n! \left(\log x + 1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n-1} + \frac{1}{n} \right)$

☒ 3. $I_n = (n-1)! \left(\log x + 1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n-1} + \frac{1}{n} \right)$

☒ 4. $I_n = \frac{1}{n!} \left(\log x + 1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n-1} + \frac{1}{n} \right)$

Q.99 Which of the following are the boundaries of a surface?

Question ID : 6044813528

Status : Answered

Chosen Option : 2

Ans ☒ 1. Points

☒ 2. Surfaces

☒ 3. Lines

☒ 4. Curves

Q.100 How many terms are there in the following GP?

Question ID : 6044813507

Status : Answered

Chosen Option : 2

5, 20, 80, 320, ..., 20480

Ans ☒ 1. 6

☒ 2. 7

☒ 3. 8

☒ 4. 9

