

OAVS PGT

**Previous Year Paper
(Physics)**

05 Jun, 2024 Shift 2



ALL EXAMS, **ONE** SUBSCRIPTION



Test. Analyze. Improve. Repeat.



*Don't just
prepare.
Perform.*

Test Prime – built only
for mock tests.



1,50,000+
Mock Tests



25,000+
Previous Year
Papers



800+
Exam
Covered



500%
Refund on
Selection



5 lakh+
Free Quizzes



Daily
Free PDFs



Top Alerts
Stay Updated

WHY TEST PRIME?

- ✓ Multilingual
- ✓ Detailed Solution
- ✓ Strong and Weak Areas
- ✓ All India Rankings



Safe & Reliable



Trusted by
Lakhs of Aspirants



Your Success,
Our Mission



**DOWNLOAD
TEST PRIME**

Your Success Partner!



Test

Prime



SUCCESS GALLERY!

MEET THE ACHIEVERS



Shreya, SBI PO



Sahil, SBI PO



Srijita, SBI PO



Vikram, IBPS PO



Neeti, IBPS PO



Arya, IBPS PO



Hasan, SSC CGL



Palak, SSC CGL



Priti, UP TGT



Aniket, Bihar Stet



Shaurya, NTPC



Sarita, CTET



Gourav, NTPC



Sanni, NTPC



Abhishek, CTET



Sapna, IBPS Clerk

THEY DID IT. YOU CAN TOO

READ THEIR STORIES!





ODISHA ADARSHA VIDYALAYA SANGATHAN
(Under School & Mass Education Department, Government of Odisha.)



Participant ID	
Participant Name	
Test Center Name	
Test Date	05/06/2024
Test Time	2:00 PM - 5:20 PM
Subject	PGT Physics
Marks Obtained	

Section : Language Proficiency Test-General English

Q.1 Select the option that expresses the given sentence in reported speech.

Tom said, "I have never been to Paris."

- Ans ☒ 1. Tom said that he never went to Paris.
- ☒ 2. Tom said that he had never been to Paris.
- ☒ 3. Tom said that he has never been to Paris.
- ☒ 4. Tom said that he never goes to Paris.

Question Type : MCQ
Question ID : 630680539741
Option 1 ID : 6306802110085
Option 2 ID : 6306802110086
Option 3 ID : 6306802110087
Option 4 ID : 6306802110088
Status : Answered
Chosen Option : 3
Marks : -0.25

Q.2 Select the option that can be used as a one-word substitute for the given group of words/phrase.

Someone who dislikes and avoids other people

- Ans ☒ 1. Misanthrope
- ☒ 2. Gourmand
- ☒ 3. Iconoclast
- ☒ 4. Sycophant

Question Type : MCQ
Question ID : 630680727046
Option 1 ID : 6306802849156
Option 2 ID : 6306802849157
Option 3 ID : 6306802849154
Option 4 ID : 6306802849155
Status : Not Answered
Chosen Option : --
Marks : 0

Q.3 Which of the following options best improves the syntax and structure of the given sentence?

Walking through the forest, a stream was discovered by us.

- Ans
- ☐ 1. Walking through the forest, us discovered a stream.
 - ☐ 2. Walking through the forest, a stream was discovered.
 - ☒ 3. Walking through the forest, we discovered a stream.
 - ☐ 4. Walking through the forest, a stream was discovered by we.

Question Type : MCQ
Question ID : 630680772097
Option 1 ID : 6306803026339
Option 2 ID : 6306803026337
Option 3 ID : 6306803026336
Option 4 ID : 6306803026338
Status : Answered
Chosen Option : 3
Marks : 1

Q.4 Choose the proverb that suits the given situation most appropriately.

Instead of finding the solutions for their current problems, many people love to put blames on their forefathers' misdeeds committed long back. They ignore easily the fact that _____.

- Ans
- ☐ 1. if we don't like the heat, we have to get out of the kitchen
 - ☐ 2. the family that prays together, stays together
 - ☒ 3. it is no use crying over the spilt milk
 - ☐ 4. We should not cut off our nose to spite the face

Question Type : MCQ
Question ID : 630680105563
Option 1 ID : 630680410313
Option 2 ID : 630680410314
Option 3 ID : 630680410312
Option 4 ID : 630680410311
Status : Answered
Chosen Option : 1
Marks : -0.25

Q.5 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A) All moralists recommend honesty as a virtue. Is it also to be recommended as a policy! Is it a wise plan of action in all situations?! The answer is that it is.
B) Honesty is a virtue which is commendable from any point of view for everyone in any situation; dishonesty may bring immediate success but in the long run it will only bring disaster.
C) Honesty not only succeeds in the long run but also brings about mutual trust and confidence, an honest person has mental peace and is more relaxed in life.
D) An honest person is not tensed like a dishonest man who should be thinking of his fraudulent actions. Honesty ensures safety and inspires trust.

- Ans
- ☒ 1. ABCD
 - ☒ 2. DACB
 - ☒ 3. BCAD
 - ☒ 4. BACD

Question Type : MCQ
Question ID : 630680164267
Option 1 ID : 630680636200
Option 2 ID : 630680636203
Option 3 ID : 630680636202
Option 4 ID : 630680636201
Status : Answered
Chosen Option : 4
Marks : 1

Q.6 Select the most appropriate question tag to fill in the blank.

Tony is from Kerala, _____?

- Ans
- ☒ 1. wasn't he
 - ☒ 2. weren't he
 - ☒ 3. isn't he
 - ☒ 4. aren't he

Question Type : MCQ
Question ID : 630680729390
Option 1 ID : 6306802858237
Option 2 ID : 6306802858238
Option 3 ID : 6306802858236
Option 4 ID : 6306802858239
Status : Answered
Chosen Option : 3
Marks : 1

Q.7 Select the option that expresses the given sentence in active voice.

The elaborate experiment had been meticulously designed by the team of scientists to test the hypothesis.

- Ans
- ☒ 1. The team of scientists had been meticulously designed the elaborate experiment to test the hypothesis.
 - ☒ 2. The team of scientists meticulously designed the elaborate experiment to test the hypothesis.
 - ☒ 3. The team of scientists has meticulously designed the elaborate experiment to test the hypothesis.
 - ☒ 4. The team of scientists had meticulously designed the elaborate experiment to test the hypothesis.

Question Type : MCQ
Question ID : 630680607362
Option 1 ID : 6306802376599
Option 2 ID : 6306802376598
Option 3 ID : 6306802376600
Option 4 ID : 6306802376597
Status : Answered
Chosen Option : 4
Marks : 1

Q.8 Select the option that rectifies the spelling error in the given sentence.

The patient who was put on a ventllater soon recovered.

- Ans
- ☒ 1. Ventilator
 - ☒ 2. Wentilator
 - ☒ 3. Wentilater
 - ☒ 4. Ventillator

Question Type : MCQ
Question ID : 630680729995
Option 1 ID : 6306802860591
Option 2 ID : 6306802860593
Option 3 ID : 6306802860592
Option 4 ID : 6306802860594
Status : Answered
Chosen Option : 1
Marks : 1

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

The actress's ____ mesmerised all those who laid their eyes on her.

- Ans
- ☒ 1. personality
 - ☒ 2. beauty
 - ☒ 3. intelligence
 - ☒ 4. kindness

Question Type : MCQ
Question ID : 630680104942
Option 1 ID : 630680407902
Option 2 ID : 630680407900
Option 3 ID : 630680407901
Option 4 ID : 630680407899
Status : Answered
Chosen Option : 2
Marks : 1

Q.10 Select the most appropriate synonym of the underlined word.

Though the pandemic has caused widespread distress around the world, humanity has not lost hope.

- Ans
- ☒ 1. discrimination
 - ☒ 2. relish
 - ☒ 3. gratification
 - ☒ 4. anguish

Question Type : MCQ
Question ID : 63068069242
Option 1 ID : 630680267646
Option 2 ID : 630680267648
Option 3 ID : 630680267649
Option 4 ID : 630680267647
Status : Answered
Chosen Option : 4
Marks : 1

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

She asked me if I was happy then.

- Ans
- ☒ 1. She said to me, "Was I happy now?"
 - ☒ 2. She said to me, "Am I happy now?"
 - ☒ 3. She said to me, "Are you happy now?"
 - ☒ 4. She said to me, "Were you happy now?"

Question Type : MCQ
Question ID : 630680545229
Option 1 ID : 6306802131619
Option 2 ID : 6306802131620
Option 3 ID : 6306802131622
Option 4 ID : 6306802131621
Status : Answered
Chosen Option : 3
Marks : 1

Q.12 Select the option that can be used as a one-word substitute for the given group of words.

A person who has beautiful handwriting

- Ans
- ☒ 1. Calligraphist
 - ☒ 2. Artist
 - ☒ 3. Writer
 - ☒ 4. Painter

Question Type : MCQ
Question ID : 630680772094
Option 1 ID : 6306803026325
Option 2 ID : 6306803026324
Option 3 ID : 6306803026327
Option 4 ID : 6306803026326
Status : Answered
Chosen Option : 1
Marks : 1

Q.13 Select the proverb that best fits the given scenario.

A person who often criticises others gets criticised themselves.

- Ans ☒ 1. What goes around comes around.
- ☐ 2. A stitch in time saves nine.
- ☐ 3. Too many cooks spoil the broth.
- ☐ 4. Birds of a feather flock together.

Question Type : MCQ
Question ID : 630680772090
Option 1 ID : 6306803026309
Option 2 ID : 6306803026310
Option 3 ID : 6306803026311
Option 4 ID : 6306803026308
Status : Not Answered
Chosen Option : --
Marks : 0

Q.14 Select the most appropriate adjective to fill the blank.
All the children playing in the orchard were fascinated by the _____ figure of the angel.

- Ans ☒ 1. enchanting
- ☐ 2. palatable
- ☐ 3. imbibing
- ☐ 4. blabbering

Question Type : MCQ
Question ID : 630680158350
Option 1 ID : 630680612931
Option 2 ID : 630680612928
Option 3 ID : 630680612929
Option 4 ID : 630680612930
Status : Not Answered
Chosen Option : --
Marks : 0

Q.15 Select the option that expresses the given sentence in passive voice.

Sam didn't water the plants.

- Ans ☐ 1. The plants was not water by Sam.
- ☐ 2. The plants was not watering by Sam.
- ☐ 3. The plants were not water by Sam.
- ☒ 4. The plants were not watered by Sam.

Question Type : MCQ
Question ID : 630680729393
Option 1 ID : 6306802858249
Option 2 ID : 6306802858251
Option 3 ID : 6306802858250
Option 4 ID : 6306802858248
Status : Answered
Chosen Option : 3
Marks : -0.25

Q.16 Select the most appropriate option to fill in the blank.
They all walked through a dense jungle to discover the hidden treasure, _____.

- Ans ☒ 1. didn't they?
 ☐ 2. hasn't they?
 ☐ 3. did they?
 ☐ 4. do they?

Question Type : MCQ
Question ID : 630680317839
Option 1 ID : 6306801236447
Option 2 ID : 6306801236448
Option 3 ID : 6306801236446
Option 4 ID : 6306801236445
Status : Answered
Chosen Option : 1
Marks : 1

Q.17 Select the most appropriate verb to fill in the blank.
According to researchers, making connections with wealthier peers is _____ to higher earnings later in life.

- Ans ☒ 1. allied
 ☐ 2. alluded
 ☐ 3. alleged
 ☐ 4. aligned

Question Type : MCQ
Question ID : 630680164090
Option 1 ID : 630680635498
Option 2 ID : 630680635499
Option 3 ID : 630680635496
Option 4 ID : 630680635497
Status : Answered
Chosen Option : 4
Marks : -0.25

Q.18 Select the most appropriate ANTONYM of the underlined word.
“We will rejoice this well-deserved win with our audience,” expressed the team captain during the post-match press conference.

- Ans ☐ 1. preen
 ☒ 2. caterwaul
 ☐ 3. waltz
 ☐ 4. galumph

Question Type : MCQ
Question ID : 630680112474
Option 1 ID : 630680435593
Option 2 ID : 630680435592
Option 3 ID : 630680435591
Option 4 ID : 630680435590
Status : Not Answered
Chosen Option : --
Marks : 0

Q.19 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A.Meanwhile, other modes of expression, interpretation and comprehension, such as analysis and argument, have fallen to the wayside.
B.He argues that we've relied too heavily on storytelling conventions to understand the world around us.
C.There is a growing trend in American culture of what the literary theorist Peter Brooks calls 'storification'.
D.It has resulted in a 'narrative takeover of reality' that affects nearly every form of communication.

- Ans
- ☒ 1. CADB
 - ☒ 2. CABD
 - ☒ 3. CBDA
 - ☒ 4. BACD

Question Type : MCQ
Question ID : 630680158379
Option 1 ID : 630680613044
Option 2 ID : 630680613045
Option 3 ID : 630680613046
Option 4 ID : 630680613047
Status : Not Answered
Chosen Option : --
Marks : 0

Q.20 Select the option that rectifies the spelling error in the given sentence.

She was very weak after she recovered from neumonia.

- Ans
- ☒ 1. Kneemonia
 - ☒ 2. Pneumonia
 - ☒ 3. Pnimonina
 - ☒ 4. Nimonia

Question Type : MCQ
Question ID : 630680730023
Option 1 ID : 6306802860705
Option 2 ID : 6306802860703
Option 3 ID : 6306802860706
Option 4 ID : 6306802860704
Status : Answered
Chosen Option : 2
Marks : 1

Section : Language Proficiency Test-Odia

Q.21 'ଠେକିଏ ପାଣି ପିଆଇବା'ରୁ ଡିଡିର ଅର୍ଥ କ'ଣ ?

- Ans
- ☒ 1. ଠେକିରେ ପାଣି ଭାଳିବା
 - ☒ 2. ଠେକିରୁ ପାଣି ଆଣିଦେବା
 - ☒ 3. ଠେକିରେ ଯୁଦ୍ଧ ଦେଇ ପାଣି ପିଇବା
 - ☒ 4. ଅସୁବ୍ୟସ୍ତ କରି ପକେଇବା

Question Type : MCQ
Question ID : 630680814134
Option 1 ID : 6306803189756
Option 2 ID : 6306803189753
Option 3 ID : 6306803189754
Option 4 ID : 6306803189755
Status : Answered
Chosen Option : 4
Marks : 1

Q.22 ଡମେ _____ ଏଡେ ଭୁଲ କରନାହିଁ । ଉପଯୁକ୍ତ ଶବ୍ଦ ଯୋଗରେ ବାକ୍ୟଟିର ଶୁଦ୍ଧ ରୂପ ପ୍ରକାଶ କର ।

- Ans
- ☒ 1. ଯେତିକି
 - ☒ 2. ଯଥା
 - ☒ 3. ଅରକ୍ଷୁଅର
 - ☒ 4. ନଚେତ୍

Question Type : MCQ
Question ID : 630680814149
Option 1 ID : 6306803189814
Option 2 ID : 6306803189816
Option 3 ID : 6306803189813
Option 4 ID : 6306803189815
Status : Answered
Chosen Option : 3
Marks : 1

Q.23 'ଛୁଞ୍ଚିମାଛି ପରୀକ୍ଷା'ରୁବିଚିତ ଅର୍ଥ କ'ଣ ?

- Ans
- ☒ 1. କେବଳ ଛୁଞ୍ଚି ଓ ମାଛିକୁ ପରୀକ୍ଷା କରିବା
 - ☒ 2. ଛୁଞ୍ଚିକୁ ମାଛି ପରି ଦେଖିବା
 - ☒ 3. ଛୁଞ୍ଚି ଓ ମାଛି ଦେଖିବା
 - ☒ 4. ତନ୍ମତନ୍ମ ଦେଖିବା

Question Type : MCQ
Question ID : 630680814135
Option 1 ID : 6306803189759
Option 2 ID : 6306803189757
Option 3 ID : 6306803189758
Option 4 ID : 6306803189760
Status : Answered
Chosen Option : 4
Marks : 1

Q.24 ନିମ୍ନ ବାକ୍ୟ ମଧ୍ୟରୁ କେଉଁଟି କର୍ମ ବାଚ୍ୟର ଉଦାହରଣ ଚିହ୍ନିତ ଦିଅ ?

- Ans
- ☒ 1. ପିଲାମାନେ ଦଉଡୁଅଛନ୍ତି ।
 - ☒ 2. କେତେବେଳେ ଆପଣ ଯିବା ହେବେ ?
 - ☒ 3. କାହାଦ୍ୱାରା ଏ ବହି ଲେଖା ହୋଇଅଛି ?
 - ☒ 4. କେତେବେଳେ ଆପଣଙ୍କର ଯିବା ହେବ ?

Question Type : MCQ
Question ID : 630680814151
Option 1 ID : 6306803189822
Option 2 ID : 6306803189823
Option 3 ID : 6306803189824
Option 4 ID : 6306803189821
Status : Answered
Chosen Option : 2
Marks : -0.25

Q.25 ନିମ୍ନମଧ୍ୟରୁ ଭୁଲ ଶବ୍ଦଟିକୁ ଚିହ୍ନଟ କର ।

- Ans ☒ 1. ମାମୁଁ
☐ 2. ମାମୁ
☐ 3. ଯାତାୟାତ
☐ 4. ଯୋଗିଶ୍ରେଷ୍ଠ

Question Type : MCQ
Question ID : 630680814103
Option 1 ID : 6306803189629
Option 2 ID : 6306803189630
Option 3 ID : 6306803189631
Option 4 ID : 6306803189632
Status : Answered
Chosen Option : 3
Marks : -0.25

Q.26 ଆପେ ବଞ୍ଚିଲେ ବାପର ____ । ନିମ୍ନ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଶବ୍ଦ ଯୋଗରେ ଶୂନ୍ୟ ସ୍ଥାନ ପୂରଣ କର ।

- Ans ☐ 1. ଗାଁ
☐ 2. କି ଯାଏ
☐ 3. ଲାଭ
☒ 4. ନାଁ

Question Type : MCQ
Question ID : 630680814111
Option 1 ID : 6306803189662
Option 2 ID : 6306803189664
Option 3 ID : 6306803189663
Option 4 ID : 6306803189661
Status : Answered
Chosen Option : 4
Marks : 1

Q.27 ଶୁଦ୍ଧ ଶବ୍ଦଟିକୁ ଚିହ୍ନଟ କର ।

- Ans ☐ 1. ଯାତ୍ୟାଭିମାନୀ
☒ 2. ଜାତ୍ୟଭିମାନୀ
☐ 3. ଜାତ୍ୟାଭିମାନୀ
☐ 4. ଜାତିଭିମାନୀ

Question Type : MCQ
Question ID : 630680814124
Option 1 ID : 6306803189716
Option 2 ID : 6306803189714
Option 3 ID : 6306803189713
Option 4 ID : 6306803189715
Status : Answered
Chosen Option : 3
Marks : -0.25

Q.28 ନିମ୍ନମଧ୍ୟରୁ ଭୁଲ ଶବ୍ଦଟିକୁ ଚିହ୍ନଟ କର ।

- Ans
- ☒ 1. ଭୂମ୍ୟଧିକାରୀ
 - ☒ 2. ବୈଷମ୍ୟତା
 - ☒ 3. ଭ୍ରାତୃଶ୍ମ
 - ☒ 4. ଭୌଗୋଳିକ

Question Type : MCQ
Question ID : 630680814095
Option 1 ID : 6306803189598
Option 2 ID : 6306803189600
Option 3 ID : 6306803189597
Option 4 ID : 6306803189599
Status : Answered
Chosen Option : 2
Marks : 1

Q.29 ଅଶୋକ ନିଜର ସମସ୍ତ ପ୍ରଜା ସୁଖରେ ରୁହନ୍ତୁ ବୋଲି କାମନା କଲେ । ଏହି ବାକ୍ୟଟିକୁ ପ୍ରତ୍ୟକ୍ଷ ଭକ୍ତିରେ ପ୍ରକାଶ କଲେ କେଉଁଟି ଠିକ୍ ବାକ୍ୟ ?

- Ans
- ☒ 1. ଅଶୋକ ତାଙ୍କର ସମସ୍ତ ପ୍ରଜାଙ୍କର ସୁଖ ଚାହୁଁଲେ ।
 - ☒ 2. ଅଶୋକ ତାଙ୍କର ସମସ୍ତ ପ୍ରଜାଙ୍କର ସୁଖ କାମନା କଲେ ।
 - ☒ 3. ଅଶୋକ କହିଲେ, "ତାଙ୍କର ସମସ୍ତ ପ୍ରଜା ସୁଖରେ ରୁହନ୍ତୁ ।"
 - ☒ 4. ଅଶୋକ କହିଲେ, "ମୋର ସମସ୍ତ ପ୍ରଜା ସୁଖରେ ରୁହନ୍ତୁ ।"

Question Type : MCQ
Question ID : 630680814165
Option 1 ID : 6306803189879
Option 2 ID : 6306803189880
Option 3 ID : 6306803189877
Option 4 ID : 6306803189878
Status : Answered
Chosen Option : 4
Marks : 1

Q.30 'ରକ୍ତ ଅଟେ ଅମର' - ଏହାକୁ ଏକପଦରେ ପ୍ରକାଶ କଲେ ନିମ୍ନ ମଧ୍ୟରୁ କେଉଁଟି ଠିକ୍ ହେବ?

- Ans
- ☒ 1. ରକ୍ତମର
 - ☒ 2. ରତାମର
 - ☒ 3. ରତାମର
 - ☒ 4. ରକ୍ତାମର

Question Type : MCQ
Question ID : 630680814141
Option 1 ID : 6306803189781
Option 2 ID : 6306803189784
Option 3 ID : 6306803189783
Option 4 ID : 6306803189782
Status : Answered
Chosen Option : 4
Marks : 1

Q.31 ନିମ୍ନ ବାକ୍ୟ ମଧ୍ୟରୁ କେଉଁଟି କର୍ତ୍ତୃ ବାଚ୍ୟର ଉଦାହରଣ ଚିହ୍ନଟ କର ?

- Ans
- ☐ 1. ପିଲାମାନଙ୍କର ଧାଇଁବା ହେଉଛି ।
 - ☐ 2. ବାପାଙ୍କର ଜଗନ୍ନାଥ ଦର୍ଶନ ହେବ ।
 - ☐ 3. ଶୁଭଲକ୍ଷ୍ମୀର ଟି.ଭି. ଦେଖାହେଉଛି ।
 - ☒ 4. ଶୁଭଲକ୍ଷ୍ମୀ ଟି.ଭି. ଦେଖୁଛି ।

Question Type : MCQ
Question ID : 630680814155
Option 1 ID : 6306803189838
Option 2 ID : 6306803189840
Option 3 ID : 6306803189837
Option 4 ID : 6306803189839
Status : Answered
Chosen Option : 4
Marks : 1

Q.32 _____ ଆଉ ପିଲାମାନେ ଖଡ଼ି ସ୍ଥଳରେ ଅଙ୍କ କଷ୍ଟ ନାହାନ୍ତି । ଉପଯୁକ୍ତ ଶବ୍ଦ ଯୋଗରେ ବାକ୍ୟଟିର ଶୁଦ୍ଧ ରୂପ ପ୍ରକାଶ କର ।

- Ans
- ☐ 1. ସର୍ବଦା
 - ☐ 2. ବାରମ୍ବାର
 - ☐ 3. ଯେବେ
 - ☒ 4. ଏବେ

Question Type : MCQ
Question ID : 630680814146
Option 1 ID : 6306803189801
Option 2 ID : 6306803189804
Option 3 ID : 6306803189803
Option 4 ID : 6306803189802
Status : Answered
Chosen Option : 4
Marks : 1

Q.33 ନିମ୍ନମଧ୍ୟରୁ କେଉଁ ବାକ୍ୟଟି ଶୁଦ୍ଧ ଦର୍ଶାଏ ?

- Ans
- ☐ 1. ସାକ୍ଷ୍ୟପ୍ରଦାନ କରେ କାରୁକାର୍ଯ୍ୟଭରା ମନ୍ଦିରଗୁଡ଼ିକ ଓଡ଼ିଶାର ଏକ ଗୌରବାବହ ଇତିହାସର ।
 - ☐ 2. କାରୁକାର୍ଯ୍ୟଭରା ମନ୍ଦିରଗୁଡ଼ିକ ଓଡ଼ିଶାର ସାକ୍ଷ୍ୟପ୍ରଦାନ କରେ ଏକ ଗୌରବାବହ ଇତିହାସର ।
 - ☒ 3. କାରୁକାର୍ଯ୍ୟଭରା ମନ୍ଦିରଗୁଡ଼ିକ ଓଡ଼ିଶାର ଏକ ଗୌରବାବହ ଇତିହାସର ସାକ୍ଷ୍ୟପ୍ରଦାନ କରେ ।
 - ☐ 4. ଏକ ଗୌରବାବହ କାରୁକାର୍ଯ୍ୟଭରା ମନ୍ଦିରଗୁଡ଼ିକ ଓଡ଼ିଶାର ଇତିହାସର ସାକ୍ଷ୍ୟପ୍ରଦାନ କରେ ।

Question Type : MCQ
Question ID : 630680814169
Option 1 ID : 6306803189895
Option 2 ID : 6306803189894
Option 3 ID : 6306803189896
Option 4 ID : 6306803189893
Status : Answered
Chosen Option : 3
Marks : 1

Q.34 ନିମ୍ନଲିଖିତ କେଉଁ ବାକ୍ୟଟି ଶୁଦ୍ଧ ଦର୍ଶାଏ ?

- Ans ☒ 1. ପୁସ୍ତକଟି ବହୁ ଲୋକଙ୍କର ପ୍ରଶଂସା ଓ ଆଦର ଲାଭ କରିଛି ।
- ☐ 2. ପୁସ୍ତକଟି ବହୁ ପ୍ରଶଂସା ଓ ଆଦର ଲୋକଙ୍କର ଲାଭ କରିଛି ।
- ☐ 3. ପୁସ୍ତକଟି ବହୁ ଲୋକଙ୍କର ଲାଭ କରିଛି ପ୍ରଶଂସା ଓ ଆଦର ।
- ☐ 4. ପୁସ୍ତକଟି ପ୍ରଶଂସା ଓ ବହୁ ଲୋକଙ୍କର ଆଦର କରିଛି ଲାଭ ।

Question Type : MCQ
Question ID : 630680814172
Option 1 ID : 6306803189908
Option 2 ID : 6306803189905
Option 3 ID : 6306803189907
Option 4 ID : 6306803189906
Status : Answered
Chosen Option : 1
Marks : 1

Q.35 'ଦୋଷୀ'ର ବିପରୀତାର୍ଥବୋଧକ ଶବ୍ଦଟି କ'ଣ ?

- Ans ☒ 1. ନିର୍ଦ୍ଦୋଷ
- ☐ 2. ଦୋଷପୁରୁ
- ☐ 3. ଦୋଷୀପୁରୁ
- ☐ 4. ନିର୍ଦ୍ଦୋଷୀ

Question Type : MCQ
Question ID : 630680814119
Option 1 ID : 6306803189695
Option 2 ID : 6306803189693
Option 3 ID : 6306803189694
Option 4 ID : 6306803189696
Status : Answered
Chosen Option : 1
Marks : 1

Q.36 'ବୃକ୍ଷ'ର ସମାର୍ଥବୋଧକ ଶବ୍ଦଟି କ'ଣ ?

- Ans ☐ 1. ବିପିନ
- ☐ 2. ସର
- ☒ 3. ବିଟପୀ
- ☐ 4. ପ୍ରସୂନ

Question Type : MCQ
Question ID : 630680814117
Option 1 ID : 6306803189685
Option 2 ID : 6306803189688
Option 3 ID : 6306803189687
Option 4 ID : 6306803189686
Status : Answered
Chosen Option : 3
Marks : 1

Q.37 'କାମରେ ହାତ ଦେବା'ରୁଦ୍ଧିର ଅର୍ଥ କ'ଣ ?

- Ans
- ☒ 1. କାର୍ଯ୍ୟ ସିଦ୍ଧି ହେବା
 - ☒ 2. କାର୍ଯ୍ୟ ନକରିବା
 - ☒ 3. କାର୍ଯ୍ୟ ଆରମ୍ଭ କରିବା
 - ☒ 4. କାର୍ଯ୍ୟ ସାରିବା

Question Type : MCQ
Question ID : 630680814128
Option 1 ID : 6306803189729
Option 2 ID : 6306803189731
Option 3 ID : 6306803189732
Option 4 ID : 6306803189730
Status : Answered
Chosen Option : 3
Marks : 1

Q.38 ନିମ୍ନମଧ୍ୟରୁ ଭୁଲ ଶବ୍ଦଟିକୁ ଚିହ୍ନଟ କର ।

- Ans
- ☒ 1. ନିର୍ଲୋଭୀ
 - ☒ 2. ନିର୍ଲୋଭ
 - ☒ 3. ପରିତ୍ୟାଜ୍ୟ
 - ☒ 4. ନିରହଙ୍କାର

Question Type : MCQ
Question ID : 630680814102
Option 1 ID : 6306803189625
Option 2 ID : 6306803189627
Option 3 ID : 6306803189626
Option 4 ID : 6306803189628
Status : Answered
Chosen Option : 1
Marks : 1

Q.39 ଏକା _____ ଶୀତ ଯାଏ ନାହିଁ । ନିମ୍ନ ମଧ୍ୟରୁ ଉପଯୁକ୍ତ ଶବ୍ଦ ଯୋଗରେ ଶୂନ୍ୟ ସ୍ଥାନ ପୂରଣ କର ।

- Ans
- ☒ 1. ମାର୍ଗଶୀରରେ
 - ☒ 2. ମାର୍ଗରେ
 - ☒ 3. ପୌଷରେ
 - ☒ 4. ଫଗୁଣରେ

Question Type : MCQ
Question ID : 630680814107
Option 1 ID : 6306803189645
Option 2 ID : 6306803189647
Option 3 ID : 6306803189646
Option 4 ID : 6306803189648
Status : Answered
Chosen Option : 2
Marks : 1

Q.40 ହରିବାରୁ ତାଙ୍କ ଚାକରକୁ କହିଲେ, “ଏହିକ୍ଷଣି ବଜାରକୁ ଯାଇ ପରିବା ଆଣ” । ଏହି ବାକ୍ୟଟିକୁ ପରୋକ୍ଷ ରକ୍ତିରେ ପ୍ରକାଶ କଲେ କେଉଁଟି ଠିକ୍ ବାକ୍ୟ ହେବ?

- Ans
- ☒ 1. ସେହିକ୍ଷଣି ବଜାରକୁ ପରିବା ଆଣିବା ପାଇଁ ହରିବାରୁ ତାଙ୍କ ଚାକର ସହିତ ଗଲେ ।
 - ☒ 2. ସେହିକ୍ଷଣି ବଜାରକୁ ଯାଇ ପରିବା ଆଣିବା ପାଇଁ ହରିବାରୁ ତାଙ୍କ ଚାକରକୁ ଅନୁରୋଧ କଲେ ।
 - ☒ 3. ସେହିକ୍ଷଣି ବଜାରକୁ ଯାଇ ପରିବା ଆଣିବା ପାଇଁ ହରିବାରୁ ତାଙ୍କ ଚାକରକୁ ଆଦେଶ ଦେଲେ ।
 - ☒ 4. ଏହିକ୍ଷଣି ବଜାରକୁ ଯାଇ ପରିବା ଆଣିବା ପାଇଁ ହରିବାରୁ ତାଙ୍କ ଚାକରକୁ ପରାମର୍ଶ ଦେଲେ ।

Question Type : MCQ
Question ID : 630680814162
Option 1 ID : 6306803189866
Option 2 ID : 6306803189865
Option 3 ID : 6306803189867
Option 4 ID : 6306803189868
Status : Answered
Chosen Option : 3
Marks : 1

Section : Current Affairs

Q.41 The 4th edition of the Indo-Indonesia bilateral Exercise _____ concluded on 19th May 2023.

- Ans
- ☒ 1. Mitra Shakti-23
 - ☒ 2. Sapta Shakti-23
 - ☒ 3. Prahar Shakti-23
 - ☒ 4. Samudra Shakti-23

Question Type : MCQ
Question ID : 630680314437
Option 1 ID : 6306801223551
Option 2 ID : 6306801223550
Option 3 ID : 6306801223552
Option 4 ID : 6306801223549
Status : Answered
Chosen Option : 1
Marks : -0.25

Q.42 Which city in Karnataka hosted South Asian Football Federation Championship 2023?

- Ans
- ☒ 1. Belgaum
 - ☒ 2. Bengaluru
 - ☒ 3. Mangaluru
 - ☒ 4. Mysuru

Question Type : MCQ
Question ID : 630680596188
Option 1 ID : 6306802332861
Option 2 ID : 6306802332862
Option 3 ID : 6306802332863
Option 4 ID : 6306802332860
Status : Answered
Chosen Option : 2
Marks : 1

Q.43 As per the Economic Survey of India 2021-22, Nationwide Credit Outreach Programme was launched on _____.

- Ans
- ☒ 1. 1 June 2021
 - ☒ 2. 2 October 2021
 - ☒ 3. 16 October 2021
 - ☒ 4. 26 November 2021

Question Type : MCQ
Question ID : 630680216440
Option 1 ID : 630680839735
Option 2 ID : 630680839736
Option 3 ID : 630680839737
Option 4 ID : 630680839738
Status : Answered
Chosen Option : 3
Marks : 1

Q.44 In February 2023, who was appointed as the Vice chief of the Army Staff ?

- Ans
- ☒ 1. Chandi Prasad Mohanty
 - ☒ 2. B S Raju
 - ☒ 3. M VSuchindra Kumar
 - ☒ 4. Manoj Pande

Question Type : MCQ
Question ID : 630680282997
Option 1 ID : 6306801100121
Option 2 ID : 6306801100120
Option 3 ID : 6306801100119
Option 4 ID : 6306801100122
Status : Answered
Chosen Option : 3
Marks : 1

Q.45 Which of the following Indian actress was one of the jury members at the 75th edition of the Cannes Film Festival 2022?

- Ans
- ☒ 1. Kajol
 - ☒ 2. Vidya Balan
 - ☒ 3. Deepika Padukone
 - ☒ 4. Katrina Kaif

Question Type : MCQ
Question ID : 630680186570
Option 1 ID : 630680723230
Option 2 ID : 630680723229
Option 3 ID : 630680723231
Option 4 ID : 630680723232
Status : Answered
Chosen Option : 3
Marks : 1

Q.46 A film titled 'Mujib – The Making of a Nation' on the life of Bangabandhu Sheikh Mujibur Rahman is directed by _____.

- Ans
- ☒ 1. Amit Dutta
 - ☒ 2. G Aravindan
 - ☒ 3. Shyam Benegal
 - ☒ 4. Anurag Kashyap

Question Type : MCQ
Question ID : 630680194353
Option 1 ID : 630680753946
Option 2 ID : 630680753948
Option 3 ID : 630680753945
Option 4 ID : 630680753947
Status : Answered
Chosen Option : 2
Marks : -0.25

Q.47 Which of the following has become the 'first green industrial city' in India to receive a platinum rating under the IGBC Green Cities Rating?

- Ans
- ☒ 1. Dahej SEZ Limited
 - ☒ 2. Kandla Special Economic Zone
 - ☒ 3. Surat Special Economic Zone
 - ☒ 4. IFFCO Kisan SEZ Limited

Question Type : MCQ
Question ID : 63068061990
Option 1 ID : 630680239280
Option 2 ID : 630680239281
Option 3 ID : 630680239278
Option 4 ID : 630680239279
Status : Answered
Chosen Option : 2
Marks : 1

Q.48 1960 Indus Water Treaty was signed between _____ where the world bank has appointed a "neutral expert" in 2022.

- Ans
- ☒ 1. Pakistan and Bangladesh
 - ☒ 2. India and China
 - ☒ 3. Nepal and India
 - ☒ 4. India and Pakistan

Question Type : MCQ
Question ID : 630680195869
Option 1 ID : 630680759920
Option 2 ID : 630680759922
Option 3 ID : 630680759921
Option 4 ID : 630680759919
Status : Answered
Chosen Option : 4
Marks : 1

Q.49 According to the Sustainable Development Report-2022, in which of the following SDGs is India moderately improving?

- Ans
- ✓ 1. SDG 1
 - ✗ 2. SDG 13
 - ✗ 3. SDG 11
 - ✗ 4. SDG 12

Question Type : MCQ
Question ID : 630680210782
Option 1 ID : 630680817287
Option 2 ID : 630680817289
Option 3 ID : 630680817290
Option 4 ID : 630680817288
Status : Not Answered
Chosen Option : --
Marks : 0

Q.50 Who directed the movie 'Sam Bahadur', based on the life of India's first Field Marshal?

- Ans
- ✗ 1. Prakash Jha
 - ✓ 2. Meghna Gulzar
 - ✗ 3. Vishal Bhardawaj
 - ✗ 4. Sujoy Ghosh

Question Type : MCQ
Question ID : 630680594857
Option 1 ID : 6306802327542
Option 2 ID : 6306802327543
Option 3 ID : 6306802327541
Option 4 ID : 6306802327544
Status : Answered
Chosen Option : 3
Marks : -0.25

Q.51 The 12th edition of the International Boxing Association (IBA) Women's World Boxing Championship (WWBC) 2022 was held at the Başakşehir Youth and Sports Facility in _____.

- Ans
- ✗ 1. Sharjah
 - ✓ 2. Istanbul
 - ✗ 3. Cairo
 - ✗ 4. Muscat

Question Type : MCQ
Question ID : 630680186572
Option 1 ID : 630680723237
Option 2 ID : 630680723240
Option 3 ID : 630680723238
Option 4 ID : 630680723239
Status : Answered
Chosen Option : 2
Marks : 1

Q.52 Who has been appointed as the new chairperson of the Airports Authority of India in 2022?

- Ans ☒ 1. Sanjeev Kumar
- ☐ 2. Rajeev Singh Thakur
- ☐ 3. Anurag Jain
- ☐ 4. Anil Agrawal

Question Type : MCQ
Question ID : 630680465555
Option 1 ID : 6306801818257
Option 2 ID : 6306801818256
Option 3 ID : 6306801818258
Option 4 ID : 6306801818255
Status : Answered
Chosen Option : 1
Marks : 1

Q.53 Which of the following States came first at the Khelo India Para Games 2023 medal tally?

- Ans ☒ 1. Haryana
- ☐ 2. Punjab
- ☐ 3. Odisha
- ☐ 4. Kerala

Question Type : MCQ
Question ID : 630680594521
Option 1 ID : 6306802326296
Option 2 ID : 6306802326297
Option 3 ID : 6306802326298
Option 4 ID : 6306802326299
Status : Answered
Chosen Option : 1
Marks : 1

Q.54 Which of the following banks launched the 'Jahaan Bandhan, Wahaan Trust' campaign along with the bank's brand ambassador Sourav Ganguly in January 2023?

- Ans ☒ 1. Bandhan Bank
- ☐ 2. Bank of Baroda
- ☐ 3. Federal Bank
- ☐ 4. AU Small Finance Bank

Question Type : MCQ
Question ID : 630680321171
Option 1 ID : 6306801249398
Option 2 ID : 6306801249397
Option 3 ID : 6306801249400
Option 4 ID : 6306801249399
Status : Answered
Chosen Option : 1
Marks : 1

Q.55 The high-altitude pseudo-satellite vehicles (HAPS) is powered by:

- Ans
- ☒ 1. uranium
 - ☒ 2. electric charge
 - ☒ 3. bio - fuel
 - ☒ 4. the sun

Question Type : MCQ
Question ID : 630680629931
Option 1 ID : 6306802465641
Option 2 ID : 6306802465640
Option 3 ID : 6306802465639
Option 4 ID : 6306802465642
Status : Answered
Chosen Option : 4
Marks : 1

Q.56 In January 2023, President Biden nominated _____, as North Korea Human Rights Envoy.

- Ans
- ☒ 1. John Kerry
 - ☒ 2. Carol Browner
 - ☒ 3. Julie Turner
 - ☒ 4. Ali Zaidi

Question Type : MCQ
Question ID : 630680195871
Option 1 ID : 630680759928
Option 2 ID : 630680759929
Option 3 ID : 630680759927
Option 4 ID : 630680759930
Status : Not Answered
Chosen Option : --
Marks : 0

Q.57 As of December 2022, with more than 100 unicorns valued at US\$ 332.7 billion, India has the _____ unicorn base in the world.

- Ans
- ☒ 1. third-largest
 - ☒ 2. largest
 - ☒ 3. fourth-largest
 - ☒ 4. second-largest

Question Type : MCQ
Question ID : 630680196366
Option 1 ID : 630680761845
Option 2 ID : 630680761843
Option 3 ID : 630680761846
Option 4 ID : 630680761844
Status : Answered
Chosen Option : 1
Marks : 1

Q.58 Which country won the GSMA Government Leadership Award, in February 2023?

- Ans
- ☒ 1. Bangladesh
 - ☒ 2. Australia
 - ☒ 3. The US
 - ☒ 4. India

Question Type : MCQ
Question ID : 630680283169
Option 1 ID : 6306801100806
Option 2 ID : 6306801100803
Option 3 ID : 6306801100804
Option 4 ID : 6306801100805
Status : Not Answered
Chosen Option : --
Marks : 0

Q.59 Which of the following resolutions, of which India is also a part, was passed by the United Nations Environment Assembly (UNEA) in March 2022 for plastic pollution and to reach a global binding agreement by 2024?

- Ans
- ☒ 1. 'End plastic pollution: For better future'
 - ☒ 2. 'Removing plastic pollution through a binding agreement: Towards a sustainable future'
 - ☒ 3. 'Remove plastic pollution: Towards an international legally binding instrument'
 - ☒ 4. 'End plastic pollution: Towards an international legally binding instrument'

Question Type : MCQ
Question ID : 630680210543
Option 1 ID : 630680816332
Option 2 ID : 630680816331
Option 3 ID : 630680816333
Option 4 ID : 630680816334
Status : Answered
Chosen Option : 2
Marks : -0.25

Q.60 In April 2023, which of the following painting styles of Madhya Pradesh was given a Geographical Indication (GI) tag?

- Ans
- ☒ 1. Tribal Painting
 - ☒ 2. Gond Painting
 - ☒ 3. Bhil Painting
 - ☒ 4. Pithora Painting

Question Type : MCQ
Question ID : 630680303585
Option 1 ID : 6306801180913
Option 2 ID : 6306801180914
Option 3 ID : 6306801180915
Option 4 ID : 6306801180916
Status : Answered
Chosen Option : 4
Marks : -0.25

Q.61 Dharma Guardian and JIMEX are the defence exercises conducted in 2022 with which of the following countries?

- Ans
- ☒ 1. New Zealand
 - ☒ 2. France
 - ☒ 3. Japan
 - ☒ 4. Germany

Question Type : MCQ
Question ID : 630680325578
Option 1 ID : 6306801266652
Option 2 ID : 6306801266650
Option 3 ID : 6306801266649
Option 4 ID : 6306801266651
Status : Answered
Chosen Option : 3
Marks : 1

Q.62 Which state / union territory launched the Anti-Industrial Pollution Campaign in October 2023?

- Ans
- ☒ 1. Delhi
 - ☒ 2. West Bengal
 - ☒ 3. Uttar Pradesh
 - ☒ 4. Maharashtra

Question Type : MCQ
Question ID : 630680595595
Option 1 ID : 6306802330568
Option 2 ID : 6306802330570
Option 3 ID : 6306802330569
Option 4 ID : 6306802330571
Status : Answered
Chosen Option : 3
Marks : -0.25

Q.63 India-Mongolia joint military exercise conducted between 16 to 23 July 2023, at Ulaanbaatar, Mongolia was named _____.

- Ans
- ☒ 1. NOMADIC ELEPHANT – 2023
 - ☒ 2. KHANJAR – 2023
 - ☒ 3. IMCOR – 2023
 - ☒ 4. VINBAX – 2023

Question Type : MCQ
Question ID : 630680321247
Option 1 ID : 6306801249698
Option 2 ID : 6306801249699
Option 3 ID : 6306801249700
Option 4 ID : 6306801249697
Status : Answered
Chosen Option : 1
Marks : 1

Q.64 Which of the following has been listed as the first 100 geological heritage sites in India by the International Union of Geological Sciences (IUGS) by UNESCO?

- Ans
- ☒ 1. Stromatolite Fossil Park
 - ☒ 2. Akal Fossil Wood Park
 - ☒ 3. Mawmluh Cave
 - ☒ 4. Varkala Cliff Section

Question Type : MCQ
Question ID : 630680325545
Option 1 ID : 6306801266518
Option 2 ID : 6306801266517
Option 3 ID : 6306801266519
Option 4 ID : 6306801266520
Status : Answered
Chosen Option : 2
Marks : -0.25

Q.65 Indian Navy has declared 2024 as the Year of Naval ____.

- Ans
- ☒ 1. Civilians
 - ☒ 2. Officers
 - ☒ 3. Cadets
 - ☒ 4. Ships

Question Type : MCQ
Question ID : 630680603560
Option 1 ID : 6306802361712
Option 2 ID : 6306802361714
Option 3 ID : 6306802361713
Option 4 ID : 6306802361715
Status : Answered
Chosen Option : 1
Marks : 1

Q.66 In a landmark decision of 2022, a three-judge bench led by _____ said that sex workers are equally entitled to a life of dignity as guaranteed under Article 21 of the Constitution of India.

- Ans
- ☒ 1. Justice Dipak Misra
 - ☒ 2. Justice NV Ramana
 - ☒ 3. Justice L Nageswara Rao
 - ☒ 4. Justice Jagdish Singh Khehar

Question Type : MCQ
Question ID : 630680514212
Option 1 ID : 6306802009475
Option 2 ID : 6306802009473
Option 3 ID : 6306802009474
Option 4 ID : 6306802009476
Status : Not Answered
Chosen Option : --
Marks : 0

Q.67 Every time forest land was diverted for a development project, industries were required to identify an equal area of non-forest land for afforestation. This requirement changed on _____, when the Union Government notified new Forest (Conservation) Rules, 2022.

- Ans
- ☒ 1. 28 August 2022
 - ☒ 2. 28 May 2022
 - ☒ 3. 28 June 2022
 - ☒ 4. 28 July 2022

Question Type : MCQ
Question ID : 630680514211
Option 1 ID : 6306802009472
Option 2 ID : 6306802009469
Option 3 ID : 6306802009470
Option 4 ID : 6306802009471
Status : Not Answered
Chosen Option : --
Marks : 0

Q.68 The 46th edition of the Wangala Festival was commenced in the month of _____ 2022.

- Ans
- ☒ 1. August
 - ☒ 2. October
 - ☒ 3. November
 - ☒ 4. December

Question Type : MCQ
Question ID : 630680303247
Option 1 ID : 6306801179642
Option 2 ID : 6306801179643
Option 3 ID : 6306801179644
Option 4 ID : 6306801179645
Status : Answered
Chosen Option : 3
Marks : 1

Q.69 Which scheme was earlier known as 'National Programme for Mid-Day Meal in Schools'?

- Ans
- ☒ 1. PMPoshan
 - ☒ 2. PMJRY
 - ☒ 3. PMKalyan
 - ☒ 4. PMNidhi

Question Type : MCQ
Question ID : 630680627750
Option 1 ID : 6306802457097
Option 2 ID : 6306802457098
Option 3 ID : 6306802457096
Option 4 ID : 6306802457095
Status : Answered
Chosen Option : 1
Marks : 1

Q.70 Which of the following plan documents has the subtitle 'Inclusive Growth'?

- Ans ☒ 1. 10th Five Year Plan
- ☒ 2. 11th Five Year Plan
- ☒ 3. 9th Five year plan
- ☒ 4. 7th Five Year Plan

Question Type : MCQ
Question ID : 630680594752
Option 1 ID : 6306802327081
Option 2 ID : 6306802327082
Option 3 ID : 6306802327084
Option 4 ID : 6306802327083
Status : Answered
Chosen Option : 1
Marks : -0.25

Section : Reasoning

Q.71 Based on the English alphabetical order, three of the following letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair does not belong to that group?

- Ans ☒ 1. EA-DF
- ☒ 2. GC-FH
- ☒ 3. IE-HK
- ☒ 4. MI-LN

Question Type : MCQ
Question ID : 630680531226
Option 1 ID : 6306802076718
Option 2 ID : 6306802076719
Option 3 ID : 6306802076717
Option 4 ID : 6306802076720
Status : Answered
Chosen Option : 3
Marks : 1

Q.72 In a certain code, 'hand leg face' is coded as 'dy ph er', 'leg arm ears' is coded as 'lp ph fg', 'ears hand nose' is coded as 'st lp dy'. (All the codes are two-letter coded only.)

What is arm coded as?

- Ans ☒ 1. ph
- ☒ 2. lp
- ☒ 3. er
- ☒ 4. fg

Question Type : MCQ
Question ID : 630680717050
Option 1 ID : 6306802809810
Option 2 ID : 6306802809809
Option 3 ID : 6306802809811
Option 4 ID : 6306802809808
Status : Answered
Chosen Option : 4
Marks : 1

Q.73 Given below is a statement followed by two possible courses of action. Read the information carefully to decide which course of action(s) logically/feasibly follow(s).
Statement:
Ebambay street is going under repair for a month starting March 1st.
Courses of Action:
I. Alternate route should be preferred to avoid delays due to detour.
II. Signs about detour and information should be placed beforehand.

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

Question Type : MCQ
Question ID : 630680513750
Option 1 ID : 6306802007625
Option 2 ID : 6306802007626
Option 3 ID : 6306802007627
Option 4 ID : 6306802007628
Status : Answered
Chosen Option : 3
Marks : 1

Q.74 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

GB-HD-KM
JE-KG-NP

- Ans
- ☒ 1. LH-NJ-QR
 - ☒ 2. LH-OJ-QR
 - ☒ 3. MH-NJ-QS
 - ☒ 4. MH-NJ-QR

Question Type : MCQ
Question ID : 630680539834
Option 1 ID : 6306802110438
Option 2 ID : 6306802110439
Option 3 ID : 6306802110436
Option 4 ID : 6306802110437
Status : Answered
Chosen Option : 3
Marks : 1

Q.75 A, B, C, D, E, F, G and H are sitting around a square table, facing the centre of the table. Some of them are sitting at the corners, while some are sitting at the exact centre of the sides. Exactly 3 people sit between D and F when counted from the left of F, neither of whom sits at the corners. A sits 2nd to the right of F. C sits 3rd to the right of G. C is not an immediate neighbour of A. B is not an immediate neighbour of F, and H is not an immediate neighbour of A. How many people sit between A and C when counted from left of C?

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

Question Type : MCQ
Question ID : 630680531089
Option 1 ID : 6306802076166
Option 2 ID : 6306802076167
Option 3 ID : 6306802076165
Option 4 ID : 6306802076168
Status : Answered
Chosen Option : 2
Marks : 1

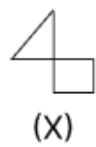
Q.76 What should come in place of the question mark (?) in the given series?

24 36 60 108 204 ?

- Ans
- ☒ 1. 390
 - ☒ 2. 396
 - ☒ 3. 369
 - ☒ 4. 394

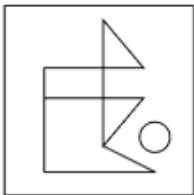
Question Type : MCQ
Question ID : 630680720282
Option 1 ID : 6306802822541
Option 2 ID : 6306802822539
Option 3 ID : 6306802822540
Option 4 ID : 6306802822542
Status : Not Answered
Chosen Option : --
Marks : 0

Q.77 Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).

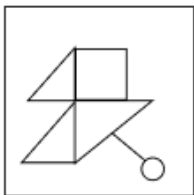


Ans

✗ 1.



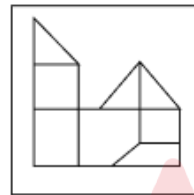
✗ 2.



✗ 3.



✓ 4.



Question Type : MCQ
Question ID : 630680721184
Option 1 ID : 6306802826092
Option 2 ID : 6306802826091
Option 3 ID : 6306802826090
Option 4 ID : 6306802826089
Status : Answered
Chosen Option : 4
Marks : 1

Q.78 Which of the following letter-clusters should replace '#' and '%' so that the pattern and relationship followed between the letter-cluster pair on the left side of '::' is the same as that on the right side of '::'?

: KMI :: LNJ : %

- Ans
- 1. # = JLI, % = MOL
 - 2. # = JLG, % = MOK
 - 3. # = JLH, % = MOL
 - 4. # = JLH, % = MOK

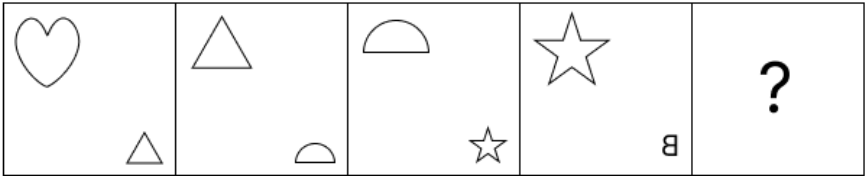
Question Type : MCQ
Question ID : 630680309735
Option 1 ID : 6306801205089
Option 2 ID : 6306801205090
Option 3 ID : 6306801205091
Option 4 ID : 6306801205092
Status : Answered
Chosen Option : 4
Marks : 1

Q.79 In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.
BIRD - IBRD - BRDI
FOUR - OFUR - FURO

- Ans
- 1. BITE - IBTE - ITEB
 - 2. SONG - SNOG - GNOS
 - 3. EXIT - XEIT - EITX
 - 4. REST - ERST - TESR

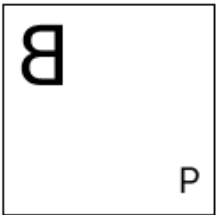
Question Type : MCQ
Question ID : 630680720265
Option 1 ID : 6306802822478
Option 2 ID : 6306802822476
Option 3 ID : 6306802822475
Option 4 ID : 6306802822477
Status : Answered
Chosen Option : 3
Marks : 1

Q.80 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

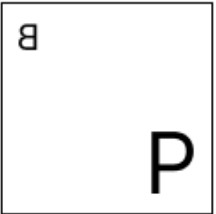


Ans

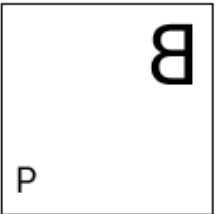
✓ 1.



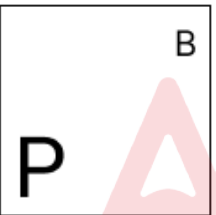
✗ 2.



✗ 3.



✗ 4.



Question Type : MCQ
Question ID : 630680721132
Option 1 ID : 6306802825888
Option 2 ID : 6306802825886
Option 3 ID : 6306802825887
Option 4 ID : 6306802825889
Status : Answered
Chosen Option : 1
Marks : 1

Q.81 What should come in place of the question mark (?) in the given series?

48, 24, 30, 15, 21, 10.5, ?

- Ans
- ☒ 1. 14.25
 - ☒ 2. 16.5
 - ☒ 3. 18
 - ☒ 4. 5.25

Question Type : MCQ
Question ID : 630680233004
Option 1 ID : 630680904140
Option 2 ID : 630680904138
Option 3 ID : 630680904139
Option 4 ID : 630680904137
Status : Answered
Chosen Option : 2
Marks : 1

Q.82 Varun starts from point A and drives 16 km towards east. He then takes a right turn and drives 3 km. He takes a final right turn and drives 8 km and stops at point B. Lovely starts from point P, which is 14 km east of Point A, and drives 9 km towards east. He then takes a right turn and drives 3 km. He takes a final right turn and drives 12 km and stops at Point Q. What is the shortest distance between Point Q and Point B? (All turns are 90° turns only.)

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

Question Type : MCQ
Question ID : 630680720171
Option 1 ID : 6306802822120
Option 2 ID : 6306802822122
Option 3 ID : 6306802822121
Option 4 ID : 6306802822123
Status : Answered
Chosen Option : 2
Marks : 1

Q.83 This question is based on the following 3-letter words.
(left) POT SEA DAY JUG (right)
How many letters are there in the English alphabetical order between the second letter of the first word from the left and the third letter of the second word from the right?

- Ans
- ☒ 1. One
 - ☒ 2. Five
 - ☒ 3. Three
 - ☒ 4. Nine

Question Type : MCQ
Question ID : 630680720203
Option 1 ID : 6306802822239
Option 2 ID : 6306802822241
Option 3 ID : 6306802822240
Option 4 ID : 6306802822242
Status : Answered
Chosen Option : 4
Marks : 1

Q.84 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:
All tickets are buttons.
No pots are buttons.
All crows are tickets.

Conclusions:
(I) Some buttons are crows.
(II) No tickets are pots.

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

Question Type : MCQ
Question ID : 630680722599
Option 1 ID : 6306802831667
Option 2 ID : 6306802831665
Option 3 ID : 6306802831666
Option 4 ID : 6306802831664
Status : Answered
Chosen Option : 1
Marks : 1

Q.85 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.

Statements:
All curtains are kettles.
All kettles are bulbs.
Some bulbs are desks.

Conclusions:
(I) All curtains are bulbs.
(II) Some desks are curtains.

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

Question Type : MCQ
Question ID : 630680720184
Option 1 ID : 6306802822172
Option 2 ID : 6306802822173
Option 3 ID : 6306802822174
Option 4 ID : 6306802822175
Status : Answered
Chosen Option : 4
Marks : -0.25

Q.86 B, D, F, G, H and K live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6.
Only three people live between D and F, where D lives below F. B lives on an odd numbered floor and immediately above D. H lives on one of the floors below G and on one of the floors above K.
Who lives on floor number 5?

- Ans ☒ 1. G
☒ 2. D
☒ 3. B
☒ 4. F

Question Type : MCQ
Question ID : 630680720163
Option 1 ID : 6306802822092
Option 2 ID : 6306802822093
Option 3 ID : 6306802822095
Option 4 ID : 6306802822094
Status : Answered
Chosen Option : 1
Marks : 1

Q.87 PSDZ is related to UZWU in a certain way based on the English alphabetical order. In the same way, JUBF is related to OBUA. To which of the following options is YPGQ related, following the same logic?

- Ans ☒ 1. DWZL
☒ 2. DLZW
☒ 3. DWLZ
☒ 4. DLWZ

Question Type : MCQ
Question ID : 630680720255
Option 1 ID : 6306802822439
Option 2 ID : 6306802822441
Option 3 ID : 6306802822440
Option 4 ID : 6306802822442
Status : Not Answered
Chosen Option : --
Marks : 0

Q.88 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements:

All horses are donkeys.

All donkeys are lions.

Some lions are tigers.

Conclusions:

(I) Some horses are tigers.

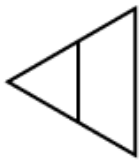
(II) Some donkeys are tigers.

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

Question Type : MCQ
Question ID : 630680539864
Option 1 ID : 6306802110558
Option 2 ID : 6306802110557
Option 3 ID : 6306802110556
Option 4 ID : 6306802110559
Status : Answered
Chosen Option : 4
Marks : -0.25



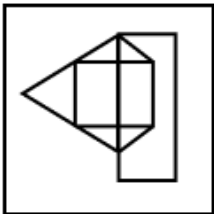
Q.89 Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).



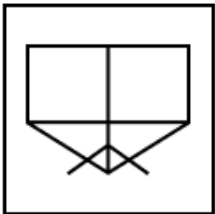
(X)

Ans

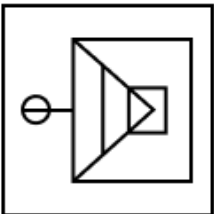
✓ 1.



✗ 2.



✗ 3.



✗ 4.



Question Type : MCQ

Question ID : 630680721193

Option 1 ID : 6306802826127

Option 2 ID : 6306802826126

Option 3 ID : 6306802826128

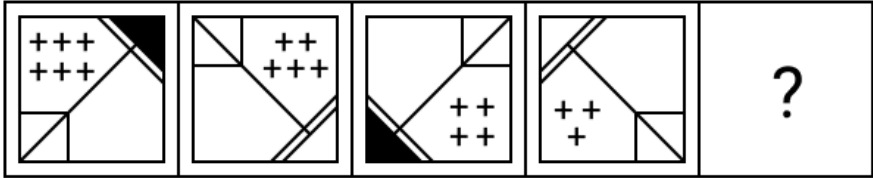
Option 4 ID : 6306802826125

Status : Answered

Chosen Option : 1

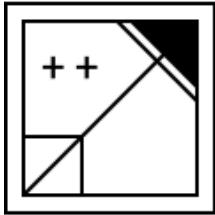
Marks : 1

Q.90 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.



Ans

✓ 1.



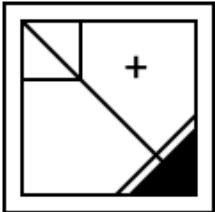
✗ 2.



✗ 3.



✗ 4.



Question Type : MCQ

Question ID : 630680550204

Option 1 ID : 6306802151079

Option 2 ID : 6306802151082

Option 3 ID : 6306802151080

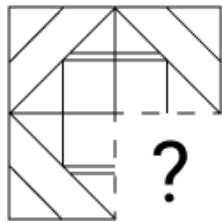
Option 4 ID : 6306802151081

Status : Answered

Chosen Option : 1

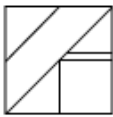
Marks : 1

Q.91 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

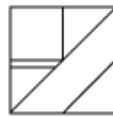


Ans

✗ 1.



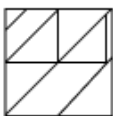
✓ 2.



✗ 3.



✗ 4.



Question Type : MCQ
Question ID : 630680721696
Option 1 ID : 6306802828099
Option 2 ID : 6306802828100
Option 3 ID : 6306802828098
Option 4 ID : 6306802828101
Status : Answered
Chosen Option : 2
Marks : 1

Q.92 This question is based on the following words.

RAG END TWO NEW

If in each of the words, each letter is changed to the next letter in the English alphabetical order, how many words thus formed will have no vowel?

Ans ✓ 1. One

✗ 2. Two

✗ 3. Three

✗ 4. Four

Question Type : MCQ
Question ID : 630680723482
Option 1 ID : 6306802835129
Option 2 ID : 6306802835128
Option 3 ID : 6306802835126
Option 4 ID : 6306802835127
Status : Answered
Chosen Option : 1
Marks : 1

Q.93 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

- Ans
- ☒ 1. IDH
 - ☐ 2. FAD
 - ☐ 3. LGJ
 - ☐ 4. OJM

Question Type : MCQ
Question ID : 630680508320
Option 1 ID : 6306801986598
Option 2 ID : 6306801986597
Option 3 ID : 6306801986599
Option 4 ID : 6306801986600
Status : Answered
Chosen Option : 1
Marks : 1

Q.94 In the following series, only one letter-cluster is incorrect. Select the incorrect letter-cluster.

TMP RKM PIL NGJ LEH JCF

- Ans
- ☐ 1. LEH
 - ☐ 2. PIL
 - ☐ 3. NGJ
 - ☒ 4. RKM

Question Type : MCQ
Question ID : 630680531123
Option 1 ID : 6306802076308
Option 2 ID : 6306802076306
Option 3 ID : 6306802076307
Option 4 ID : 6306802076305
Status : Answered
Chosen Option : 4
Marks : 1

Q.95 In a certain code, 'live in natural habitat' is coded as 'sa re fv cp', 'natural habitat for birds' is coded as 'fv cp lo ta', 'having food in jungle' is coded as 'bu mg re xy' and 'birds having natural ability' is coded as 'fv ta vp mg'. (All the codes are two letter coded only.)

What is the possible code for 'jungle'?

- Ans
- ☐ 1. mg
 - ☒ 2. Either 'xy' or 'bu'
 - ☐ 3. xy
 - ☐ 4. Either 're' or 'mg'

Question Type : MCQ
Question ID : 630680720167
Option 1 ID : 6306802822110
Option 2 ID : 6306802822108
Option 3 ID : 6306802822111
Option 4 ID : 6306802822109
Status : Answered
Chosen Option : 2
Marks : 1

Q.96 In the following series, only one letter-cluster is incorrect. Select the incorrect letter-cluster.

LIG NKI PMK ROM TQP VSQ

- Ans
- ☒ 1. ROM
 - ☒ 2. PMK
 - ☒ 3. TQP
 - ☒ 4. NKI

Question Type : MCQ
Question ID : 630680531113
Option 1 ID : 6306802076268
Option 2 ID : 6306802076267
Option 3 ID : 6306802076265
Option 4 ID : 6306802076266
Status : Answered
Chosen Option : 3
Marks : 1

Q.97 L, M, N, O, U, V, W and X are sitting around a square table facing the centre of the table. Some of them are sitting at the corners while some are sitting at the exact centre of the sides. Only three people sit between O and X. O sits to the immediate right of V. L sits second to the right of V. Only three people sit between M and V when counted from the right of V. V sits at one of the corners. N sits to the immediate left of M. W is not an immediate neighbour of V. Who sits to the immediate left and right of V, respectively?

- Ans
- ☒ 1. W and X
 - ☒ 2. M and U
 - ☒ 3. U and O
 - ☒ 4. U and X

Question Type : MCQ
Question ID : 630680421922
Option 1 ID : 6306801646128
Option 2 ID : 6306801646131
Option 3 ID : 6306801646129
Option 4 ID : 6306801646130
Status : Answered
Chosen Option : 3
Marks : 1

Q.98 This question is based on the following 3-letter words.
(left) GUN POT SEA ROT (right)
How many letters are there in the English alphabetical order between the second letter of the first word from the right and the second letter of the first word from the left?

- Ans
- ☒ 1. Three
 - ☒ 2. One
 - ☒ 3. Five
 - ☒ 4. Four

Question Type : MCQ
Question ID : 630680720202
Option 1 ID : 6306802822236
Option 2 ID : 6306802822235
Option 3 ID : 6306802822238
Option 4 ID : 6306802822237
Status : Answered
Chosen Option : 3
Marks : 1

Q.99 Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week.
V has the exam on Tuesday. Only two people have exams after U. Q has the exam immediately before R. S has the exam immediately after T but before U.
How many people have exams between P and R?

- Ans ☒ 1. Five
☐ 2. Three
☐ 3. Four
☐ 4. Two

Question Type : MCQ
Question ID : 630680722427
Option 1 ID : 6306802830979
Option 2 ID : 6306802830976
Option 3 ID : 6306802830977
Option 4 ID : 6306802830978
Status : Answered
Chosen Option : 1
Marks : 1

Q.100 In a certain code language,
'A @ B' means 'A is the sister of B',
'A & B' means 'A is the brother of B',
'A + B' means 'A is the wife of B' and
'A # B' means 'A is the father of B'.
Which of the following means that S is T's wife's father?

- Ans ☐ 1. S#D@R+Y&T
☒ 2. S#D&R@Y+T
☐ 3. S+D#R@Y&T
☐ 4. S#D&R+Y@T

Question Type : MCQ
Question ID : 630680720179
Option 1 ID : 6306802822154
Option 2 ID : 6306802822152
Option 3 ID : 6306802822155
Option 4 ID : 6306802822153
Status : Answered
Chosen Option : 2
Marks : 1

Q.101 If an object is moving with an uniform acceleration a and its initial and final velocities for time interval t are v_0 and v , respectively, then the area under the velocity-time graph of the object is given by:

Ans

- ☒ 1. $\frac{1}{2}(v + v_0)t - v_0 t$
- ☒ 2. $\frac{1}{2}(v + v_0)t + v_0 t$
- ☒ 3. $\frac{1}{2}(v - v_0)t - v_0 t$
- ☒ 4. $\frac{1}{2}(v - v_0)t + v_0 t$

Question Type : MCQ

Question ID : 630680816440

Option 1 ID : 6306803198033

Option 2 ID : 6306803198034

Option 3 ID : 6306803198035

Option 4 ID : 6306803198036

Status : Answered

Chosen Option : 4

Marks : 1

Q.102 Which of the following is true about heat, work, and internal energy?

Ans

- ☒ 1. None of them are state variables
- ☒ 2. Only heat and work are state variables
- ☒ 3. Only internal energy is a state variable
- ☒ 4. All of them are state variables

Question Type : MCQ

Question ID : 630680816473

Option 1 ID : 6306803198166

Option 2 ID : 6306803198167

Option 3 ID : 6306803198168

Option 4 ID : 6306803198165

Status : Answered

Chosen Option : 3

Marks : 1

Q.103 The law of areas can be understood as a consequence of:

Ans

- ☒ 1. conservation of energy
- ☒ 2. conservation of angular momentum
- ☒ 3. conservation of linear momentum
- ☒ 4. conservation of mass

Question Type : MCQ

Question ID : 630680816459

Option 1 ID : 6306803198109

Option 2 ID : 6306803198110

Option 3 ID : 6306803198111

Option 4 ID : 6306803198112

Status : Answered

Chosen Option : 2

Marks : 1

Q.104 The dipole field due to an electric dipole at a large distance r ($r \gg a$, a = dipole length) falls off as:

Ans

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

Question Type : MCQ

Question ID : 630680816480

Option 1 ID : 6306803198193

Option 2 ID : 6306803198196

Option 3 ID : 6306803198195

Option 4 ID : 6306803198194

Status : Answered

Chosen Option : 3

Marks : 1

Q.105 A teacher greets her students by saying, "Good morning". In this case, the channel of communication is considered as:

Ans

- ☒ 1. noise
☒ 2. non-verbal communication
☒ 3. visual communication
☒ 4. verbal communication

Question Type : MCQ

Question ID : 630680816540

Option 1 ID : 6306803198436

Option 2 ID : 6306803198434

Option 3 ID : 6306803198435

Option 4 ID : 6306803198433

Status : Answered

Chosen Option : 4

Marks : 1

Q.106 Suppose an AC voltage $V = V_0 \sin(\omega t)$ is applied to a pure capacitor. The current in the capacitor _____ the voltage by _____.

Ans

- ☒ 1. leads, $\frac{\pi}{2}$
☒ 2. lags, $\frac{\pi}{2}$
☒ 3. lags, $\frac{\pi}{4}$
☒ 4. leads, $\frac{\pi}{4}$

Question Type : MCQ

Question ID : 630680816497

Option 1 ID : 6306803198263

Option 2 ID : 6306803198264

Option 3 ID : 6306803198261

Option 4 ID : 6306803198262

Status : Answered

Chosen Option : 1

Marks : 1

Q.107 Suppose a body of mass m and specific heat capacity s is at temperature T_2 . Let T_1 be the temperature of the surroundings. Which of the following correctly describes the cooling time t of the body to the temperatures T_2 and T_1 ? (Consider $C^* = \text{constant}$.)

- Ans
- ☒ 1. $T_1 = T_2 + C^* \ln(kt/ms)$
 - ☒ 2. $T_1 = T_2 + C^* \exp(-kt/ms)$
 - ☒ 3. $T_2 = T_1 + C^* \ln(kt/ms)$
 - ☒ 4. $T_2 = T_1 + C^* \exp(-kt/ms)$

Question Type : MCQ

Question ID : 630680816470

Option 1 ID : 6306803198156

Option 2 ID : 6306803198153

Option 3 ID : 6306803198155

Option 4 ID : 6306803198154

Status : Answered

Chosen Option : 3

Marks : -0.25

Q.108 The following statements are related to audio media communication.

Statement I: Audio media communication is highly interactive.

Statement II: The biggest drawback of audio media communication is the lack of visual support.

Statement III: In audio media communication, there is no scope for any input from the listener.

Which of the above-mentioned statements is/are true?

- Ans
- ☒ 1. Only I and II
 - ☒ 2. Only III
 - ☒ 3. Only II and III
 - ☒ 4. Only I and III

Question Type : MCQ

Question ID : 630680816542

Option 1 ID : 6306803198441

Option 2 ID : 6306803198444

Option 3 ID : 6306803198443

Option 4 ID : 6306803198442

Status : Answered

Chosen Option : 4

Marks : -0.25

Q.109 If an object is placed 30 cm in front of a convex lens of focal length 20 cm, then the position of the image (in cm) is:

- Ans
- ☒ 1. 60
 - ☒ 2. 20
 - ☒ 3. 40
 - ☒ 4. 80

Question Type : MCQ

Question ID : 630680816508

Option 1 ID : 6306803198307

Option 2 ID : 6306803198305

Option 3 ID : 6306803198306

Option 4 ID : 6306803198308

Status : Answered

Chosen Option : 1

Marks : 1

Q.110 Silicon (at 300 K) has hole concentration (and equal electron concentration) of $3.0 \times 10^{17} \text{ m}^{-3}$. After indium is doped, the new hole concentration is $9.0 \times 10^{24} \text{ m}^{-3}$. The value of electron concentration in the doped silicon is:

- Ans
- ✓ 1. $10^{10} / \text{m}^3$
 - ✗ 2. $10^{11} / \text{m}^3$
 - ✗ 3. $3 \times 10^{10} / \text{m}^3$
 - ✗ 4. $9 \times 10^{11} / \text{m}^3$

Question Type : MCQ

Question ID : 630680816521

Option 1 ID : 6306803198359

Option 2 ID : 6306803198360

Option 3 ID : 6306803198358

Option 4 ID : 6306803198357

Status : Answered

Chosen Option : 1

Marks : 1

Q.111 A variable mass object with an initial mass of 50 kg is moving with a velocity of 10 m/s. After 6s, the velocity of the object increases to 20 m/s, what is the new mass (the object is moving under no external force)?

- Ans
- ✗ 1. 30 kg
 - ✗ 2. 35 kg
 - ✓ 3. 25 kg
 - ✗ 4. 20 kg

Question Type : MCQ

Question ID : 630680816456

Option 1 ID : 6306803198099

Option 2 ID : 6306803198100

Option 3 ID : 6306803198098

Option 4 ID : 6306803198097

Status : Answered

Chosen Option : 3

Marks : 1

Q.112 According to Biot-Savart law, the magnitude of magnetic field produced by a current element is (r = distance between source and point of interest):

- Ans
- ✓ 1. $\propto \frac{1}{r^2}$
 - ✗ 2. $\propto r^3$
 - ✗ 3. $\propto \frac{1}{r^3}$
 - ✗ 4. $\propto r^2$

Question Type : MCQ

Question ID : 630680816490

Option 1 ID : 6306803198235

Option 2 ID : 6306803198236

Option 3 ID : 6306803198234

Option 4 ID : 6306803198233

Status : Answered

Chosen Option : 1

Marks : 1

Q.113 An LC circuit consisting of an inductor (L) and a capacitor (C) oscillates at a frequency of 5.0 kHz. If $L = 100 \text{ mH}$, then C is given by (consider $\pi^2 \sim 10$):

- Ans
- ☒ 1. $0.001 \mu\text{F}$
 - ☒ 2. $0.01 \mu\text{F}$
 - ☒ 3. $0.0001 \mu\text{F}$
 - ☒ 4. $0.1 \mu\text{F}$

Question Type : MCQ
Question ID : 630680816498
Option 1 ID : 6306803198267
Option 2 ID : 6306803198266
Option 3 ID : 6306803198268
Option 4 ID : 6306803198265
Status : Answered
Chosen Option : 2
Marks : 1

Q.114 Consider two particles A and B are at rest and start moving towards each other under a mutual force of attraction. At the instant when the speed of A is 3 m/s, the speed of B is 6 m/s, the speed of the centre of mass of the system at that instant will be:

- Ans
- ☒ 1. 2 m/s
 - ☒ 2. 3 m/s
 - ☒ 3. 1m/s
 - ☒ 4. 0 m/s

Question Type : MCQ
Question ID : 630680816458
Option 1 ID : 6306803198106
Option 2 ID : 6306803198107
Option 3 ID : 6306803198105
Option 4 ID : 6306803198108
Status : Answered
Chosen Option : 1
Marks : -0.25

Q.115 Which of the following sequences is logically correct in the context of instructional plan?

- Ans
- ☒ 1. Academic plan, unit plan, lesson plan, monthly plan, annual plan
 - ☒ 2. Annual plan, academic plan, weekly plan, lesson plan, unit plan
 - ☒ 3. Annual plan, monthly plan, weekly plan, unit plan, lesson plan
 - ☒ 4. Monthly plan, weekly plan, academic plan, unit plan, lesson plan

Question Type : MCQ
Question ID : 630680816537
Option 1 ID : 6306803198424
Option 2 ID : 6306803198422
Option 3 ID : 6306803198423
Option 4 ID : 6306803198421
Status : Answered
Chosen Option : 1
Marks : -0.25

Q.116 Which of the following thermodynamics laws helps us to measure temperature by a thermometer?

- Ans
- ☐ 1. Third Law of Thermodynamics
 - ☐ 2. First Law of Thermodynamics
 - ☐ 3. Second Law of Thermodynamics
 - ☒ 4. Zeroth Law of Thermodynamics

Question Type : MCQ

Question ID : 630680816471

Option 1 ID : 6306803198159

Option 2 ID : 6306803198158

Option 3 ID : 6306803198157

Option 4 ID : 6306803198160

Status : Answered

Chosen Option : 4

Marks : 1

Q.117 For an Ohmic conductor the potential difference V is always proportional to the current flowing through the conductor I . The proportionality constant is known as:

- Ans
- ☐ 1. capacitance
 - ☐ 2. resistivity
 - ☒ 3. resistance
 - ☐ 4. inductance

Question Type : MCQ

Question ID : 630680816486

Option 1 ID : 6306803198218

Option 2 ID : 6306803198220

Option 3 ID : 6306803198219

Option 4 ID : 6306803198217

Status : Answered

Chosen Option : 3

Marks : 1

Q.118 Suppose a light ray is travelling from a glass medium to air medium. If the angle of incidence is 50° and the critical angle is 48° , then the light ray will:

- Ans
- ☐ 1. partially reflect and partially refract
 - ☒ 2. totally reflect back to the glass medium
 - ☐ 3. graze along the interface between the two medium
 - ☐ 4. totally refract to the air medium

Question Type : MCQ

Question ID : 630680816503

Option 1 ID : 6306803198285

Option 2 ID : 6306803198287

Option 3 ID : 6306803198288

Option 4 ID : 6306803198286

Status : Answered

Chosen Option : 2

Marks : 1

Q.119 If the radioactive decay constant of a radioactive substance is 0.231 per year, what is the half-life of the substance ($\ln 2 = 0.693$)?

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

Question Type : MCQ

Question ID : 630680816512

Option 1 ID : 6306803198324

Option 2 ID : 6306803198323

Option 3 ID : 6306803198322

Option 4 ID : 6306803198321

Status : Answered

Chosen Option : 3

Marks : 1

Q.120 When 1g of water is converted into vapour phase its latent heat is 2256 J/g and the required work done is 169.2 J. The increase in internal energy of water will be:

- Ans
- ☒ 1. 2256 J
 - ☒ 2. 2425.2 J
 - ☒ 3. 2086.8 J
 - ☒ 4. 2594.4 J

Question Type : MCQ

Question ID : 630680816472

Option 1 ID : 6306803198164

Option 2 ID : 6306803198161

Option 3 ID : 6306803198162

Option 4 ID : 6306803198163

Status : Answered

Chosen Option : 1

Marks : -0.25

Q.121 Consider the difference between the specific heats for a given gas is 3000 J/mole-°C and the ratio of these two specific heats is 2.5. Then the values of two specific heats C_p and C_v (in kJ/mole-°C), respectively, are:

- Ans
- ☒ 1. 7.5 and 3.0
 - ☒ 2. 10.0 and 4.0
 - ☒ 3. 2.5 and 1.0
 - ☒ 4. 5.0 and 2.0

Question Type : MCQ

Question ID : 630680816475

Option 1 ID : 6306803198175

Option 2 ID : 6306803198176

Option 3 ID : 6306803198173

Option 4 ID : 6306803198174

Status : Answered

Chosen Option : 4

Marks : 1

Q.122 A square coil of side 50 cm consists of 80 turns and carries a current of 6 A. The coil is suspended vertically and the normal to the plane of the coil makes an angle of 30° with the direction of a uniform horizontal magnetic field of magnitude 0.5 T. The magnitude of torque experienced by the coil is:

- Ans
- ✓ 1. 30 N m
 - ✗ 2. 40 N m
 - ✗ 3. 20 N m
 - ✗ 4. 10 N m

Question Type : MCQ

Question ID : 630680816493

Option 1 ID : 6306803198247

Option 2 ID : 6306803198248

Option 3 ID : 6306803198246

Option 4 ID : 6306803198245

Status : Not Answered

Chosen Option : --

Marks : 0

Q.123 Ramesh, a schoolteacher, is writing a textbook of Physics for Class VIII. Which of the following points should he NOT consider while evaluating his textbook?

- Ans
- ✗ 1. Promoting the thinking ability of students
 - ✗ 2. Using appropriate, lucid and simple language
 - ✗ 3. Focusing on accuracy of the subject matter
 - ✓ 4. Finding a well-reputed publisher for publication of the book

Question Type : MCQ

Question ID : 630680816535

Option 1 ID : 6306803198416

Option 2 ID : 6306803198415

Option 3 ID : 6306803198413

Option 4 ID : 6306803198414

Status : Answered

Chosen Option : 4

Marks : 1

Q.124 Rambabu holds a bucket by applying a 6 N force. He moves a horizontal distance of 8m and climbs up a vertical distance of 10m. The total work done by him is:

- Ans
- ✗ 1. 24 J
 - ✗ 2. 36 J
 - ✓ 3. 60 J
 - ✗ 4. 48 J

Question Type : MCQ

Question ID : 630680816453

Option 1 ID : 6306803198085

Option 2 ID : 6306803198086

Option 3 ID : 6306803198088

Option 4 ID : 6306803198087

Status : Answered

Chosen Option : 3

Marks : 1

Q.125 A ray of light is incident on a prism made of a transparent material with $A = 45^\circ$ and passes through it. The angle of minimum deviation is found to be 15° . The speed of light inside the prism is close to _____. (Given $\sin(22.5^\circ) = 0.4$ and the speed of light in air is 3×10^8 m/s.)

- Ans
- ☒ 1. 2.0×10^8 m/s
 - ☒ 2. 2.4×10^8 m/s
 - ☒ 3. 2.8×10^8 m/s
 - ☒ 4. 1.6×10^8 m/s

Question Type : MCQ
Question ID : 630680816509
Option 1 ID : 6306803198310
Option 2 ID : 6306803198311
Option 3 ID : 6306803198312
Option 4 ID : 6306803198309
Status : Answered
Chosen Option : 2
Marks : 1

Q.126 In the following options, some sequences related to teaching support systems in Indian higher education are given. Which of the following sequences is correct?

- Ans
- ☒ 1. Aural-oral, visual, audio-visual, ICT-based
 - ☒ 2. Audio-visual, aural-oral, visual, ICT-based
 - ☒ 3. Visual, ICT-based, audio-oral, audio-visual
 - ☒ 4. ICT-based, visual, aural-oral, audio-visual

Question Type : MCQ
Question ID : 630680816539
Option 1 ID : 6306803198431
Option 2 ID : 6306803198429
Option 3 ID : 6306803198432
Option 4 ID : 6306803198430
Status : Answered
Chosen Option : 3
Marks : -0.25

Q.127 Consider a prism made of a flint glass ($\mu=3/2$) of refracting angle 60° . It is completely immersed in a liquid ($\mu=4/3$). The angle of minimum deviation for the prism is:

- Ans
- ☒ 1. $2\sin^{-1}\left(\frac{9}{16}\right) - \frac{\pi}{3}$
 - ☒ 2. $2\sin^{-1}\left(\frac{9}{16}\right) + \frac{\pi}{3}$
 - ☒ 3. $2\sin^{-1}\left(\frac{9}{16}\right) - \frac{\pi}{6}$
 - ☒ 4. $2\sin^{-1}\left(\frac{9}{16}\right) + \frac{\pi}{6}$

Question Type : MCQ
Question ID : 630680816504
Option 1 ID : 6306803198289
Option 2 ID : 6306803198290
Option 3 ID : 6306803198291
Option 4 ID : 6306803198292
Status : Not Answered
Chosen Option : --
Marks : 0

Q.128 The four bands of a colour-coded carbon resistor are red, red, red and silver, respectively. Then the resistance of the resistor is:

- Ans
- ☒ 1. $22 \times 10^2 \Omega \pm 5\%$
 - ☒ 2. $22 \times 10^2 \Omega \pm 10\%$
 - ☒ 3. $33 \times 10^3 \Omega \pm 5\%$
 - ☒ 4. $33 \times 10^3 \Omega \pm 10\%$

Question Type : MCQ

Question ID : 630680816489

Option 1 ID : 6306803198231

Option 2 ID : 6306803198232

Option 3 ID : 6306803198229

Option 4 ID : 6306803198230

Status : Not Answered

Chosen Option : --

Marks : 0

Q.129 The gravitational force between two bodies with masses M and $2M$ that are placed at a distance of R is F_0 . If the distance between the same two bodies is reduced to $R/3$, what will be the new gravitational force between the two?

- Ans
- ☒ 1. $3 F_0$
 - ☒ 2. $\frac{F_0}{9}$
 - ☒ 3. $\frac{F_0}{3}$
 - ☒ 4. $9F_0$

Question Type : MCQ

Question ID : 630680816460

Option 1 ID : 6306803198113

Option 2 ID : 6306803198116

Option 3 ID : 6306803198114

Option 4 ID : 6306803198115

Status : Answered

Chosen Option : 4

Marks : 1

Q.130 The work done by a force $\vec{F} = [3.0\hat{i} + 4.0\hat{j}]$ N on an object that is displaced from origin to its final position $\vec{d} = [2.0\hat{i} + 4.0\hat{j}]$ m is:

- Ans
- ☒ 1. 22 J
 - ☒ 2. 20 J
 - ☒ 3. 24 J
 - ☒ 4. 16 J

Question Type : MCQ

Question ID : 630680816449

Option 1 ID : 6306803198071

Option 2 ID : 6306803198070

Option 3 ID : 6306803198072

Option 4 ID : 6306803198069

Status : Answered

Chosen Option : 1

Marks : 1

Q.131 A block is kept on an inclined plane of angle 60° . The coefficient of maximum static friction between the block and the inclined plane is $\sqrt{3}$. The acceleration of the block will be ($g = 10 \text{ m/s}^2$):

Ans

- ✓ 1. 0 m/s^2
- ✗ 2. 3.9 m/s^2
- ✗ 3. 4.9 m/s^2
- ✗ 4. 9.8 m/s^2

Question Type : MCQ

Question ID : 630680816448

Option 1 ID : 6306803198065

Option 2 ID : 6306803198068

Option 3 ID : 6306803198067

Option 4 ID : 6306803198066

Status : Answered

Chosen Option : 2

Marks : -0.25

Q.132 The speed of light in air is $3 \times 10^8 \text{ m/s}$. If the refractive index of a medium is 1.2, then the time taken by light to travel a distance of 25 cm in that medium is:

Ans

- ✗ 1. 10^{-8} s
- ✗ 2. 10^{-10} s
- ✓ 3. 10^{-9} s
- ✗ 4. 10^{-11} s

Question Type : MCQ

Question ID : 630680816507

Option 1 ID : 6306803198304

Option 2 ID : 6306803198302

Option 3 ID : 6306803198303

Option 4 ID : 6306803198301

Status : Answered

Chosen Option : 3

Marks : 1

Q.133 An object of mass 6kg is taken from a height of 6 m to a height of 26 m. What is the increment in its potential energy (assume $g = 10 \text{ m/s}^2$)?

Ans

- ✓ 1. 1200 J
- ✗ 2. 600 J
- ✗ 3. 1600 J
- ✗ 4. 1000 J

Question Type : MCQ

Question ID : 630680816452

Option 1 ID : 6306803198083

Option 2 ID : 6306803198081

Option 3 ID : 6306803198084

Option 4 ID : 6306803198082

Status : Answered

Chosen Option : 1

Marks : 1

Q.134 Consider two thin rods of length L and $3L$ and they have the same mass M . The ratio of their moment of inertia about the axis perpendicular to the rod through the mid-point will be:

- Ans
- ☒ 1. 1:6
 - ☒ 2. 1:3
 - ☒ 3. 1:12
 - ☒ 4. 1:9

Question Type : MCQ
 Question ID : 630680816455
 Option 1 ID : 6306803198094
 Option 2 ID : 6306803198093
 Option 3 ID : 6306803198096
 Option 4 ID : 6306803198095
 Status : Answered
 Chosen Option : 4
 Marks : 1

Q.135 What is the main advantage of preparing a lesson plan so as to make the teaching-learning process smooth?

- Ans
- ☒ 1. We can know the format of teaching.
 - ☒ 2. We can know the preliminaries of the subject.
 - ☒ 3. We can know the teaching method.
 - ☒ 4. We can know the objectives and specifications of the subject well in advance.

Question Type : MCQ
 Question ID : 630680816534
 Option 1 ID : 6306803198411
 Option 2 ID : 6306803198409
 Option 3 ID : 6306803198412
 Option 4 ID : 6306803198410
 Status : Answered
 Chosen Option : 4
 Marks : 1

Q.136 Two wires of the same length and similar materials are stretched with the same amount of force. If the radii of the wires are in the ratio 2:3, what is the ratio of their elongations produced?

- Ans
- ☒ 1. 11:4
 - ☒ 2. 5:4
 - ☒ 3. 7:4
 - ☒ 4. 9:4

Question Type : MCQ
 Question ID : 630680816464
 Option 1 ID : 6306803198132
 Option 2 ID : 6306803198129
 Option 3 ID : 6306803198130
 Option 4 ID : 6306803198131
 Status : Answered
 Chosen Option : 4
 Marks : 1

Q.137 Which of the following elements are needed for the classroom communication?

A) Source, B) Content, C) Noise, D) Receiver, E) Feedback

- Ans
- ☐ 1. Only A), B), C) and D)
 - ☐ 2. Only B), C) and D)
 - ☐ 3. Only A), B) and C)
 - ☒ 4. Only A), B), D) and E)

Question Type : MCQ

Question ID : 630680816544

Option 1 ID : 6306803198449

Option 2 ID : 6306803198452

Option 3 ID : 6306803198451

Option 4 ID : 6306803198450

Status : Answered

Chosen Option : 4

Marks : 1

Q.138 In determining the number of significant figures, the location of the decimal point in a number has:

- Ans
- ☐ 1. importance for few cases only
 - ☐ 2. great importance
 - ☐ 3. very less importance
 - ☒ 4. no importance

Question Type : MCQ

Question ID : 630680816434

Option 1 ID : 6306803198012

Option 2 ID : 6306803198009

Option 3 ID : 6306803198011

Option 4 ID : 6306803198010

Status : Answered

Chosen Option : 2

Marks : -0.25

Q.139 Consider two conductors A and B of length L and $4L$, and cross-sectional areas a and $a/3$. The ratio of their electrical resistances $R_A : R_B$ is (consider both of them are made of same material):

- Ans
- ☐ 1. 3:4
 - ☐ 2. 4:3
 - ☒ 3. 1:12
 - ☐ 4. 12:1

Question Type : MCQ

Question ID : 630680816488

Option 1 ID : 6306803198227

Option 2 ID : 6306803198228

Option 3 ID : 6306803198225

Option 4 ID : 6306803198226

Status : Answered

Chosen Option : 3

Marks : 1

Q.140 Suppose a capillary tube of radius a is inserted inside into an open vessel of liquid of surface tension S . If the radius of the capillary tube is increased to $2a$, then the capillary rise will (consider other conditions remain same):

- Ans
- ✓ 1. decrease to half
 - ✗ 2. increase by four times
 - ✗ 3. remain the same
 - ✗ 4. increase by two times

Question Type : MCQ

Question ID : 630680816468

Option 1 ID : 6306803198147

Option 2 ID : 6306803198148

Option 3 ID : 6306803198146

Option 4 ID : 6306803198145

Status : Answered

Chosen Option : 1

Marks : 1

Q.141 Two point charges A and B are kept on the X-axis. A has a charge of $+6 \mu\text{C}$ and is placed at $x=20 \text{ cm}$. The other charge B is of $-4 \mu\text{C}$ and is kept at $x=10 \text{ cm}$. The potential at $x = 50 \text{ cm}$ from the origin due to the above system is:

- Ans
- ✗ 1. $9 \times 10^2 \text{ V}$
 - ✓ 2. $9 \times 10^4 \text{ V}$
 - ✗ 3. 0 V
 - ✗ 4. $9 \times 10^8 \text{ V}$

Question Type : MCQ

Question ID : 630680816483

Option 1 ID : 6306803198208

Option 2 ID : 6306803198207

Option 3 ID : 6306803198205

Option 4 ID : 6306803198206

Status : Answered

Chosen Option : 4

Marks : -0.25

Q.142 Who among the following sought to promote an active role for teachers in educational research and curriculum development?

- Ans
- ✗ 1. William Heard Kilpatrick
 - ✗ 2. Hilda Taba
 - ✗ 3. Ralph W Tyler
 - ✓ 4. Lawrence Stenhouse

Question Type : MCQ

Question ID : 630680816530

Option 1 ID : 6306803198395

Option 2 ID : 6306803198393

Option 3 ID : 6306803198396

Option 4 ID : 6306803198394

Status : Not Answered

Chosen Option : --

Marks : 0

Q.143 Which of the following terms correctly characterise the classroom communication?

(A) Style-centric, (B) Goal-oriented, (C) Vertical, (D) Collaborative, (E) Non-rhetorical

- Ans
- ☒ 1. Only (B) and (C)
 - ☒ 2. Only (A), (B) and (E)
 - ☒ 3. Only (B) and D)
 - ☒ 4. Only (A) and (B)

Question Type : MCQ

Question ID : 630680816545

Option 1 ID : 6306803198455

Option 2 ID : 6306803198456

Option 3 ID : 6306803198454

Option 4 ID : 6306803198453

Status : Answered

Chosen Option : 3

Marks : 1

Q.144 Consider a long straight wire of circular cross-section of radius a and carrying a steady current I that is uniformly distributed across the cross-section. Then the magnetic field inside the straight wire, i.e., for $r < a$ is given by:

- Ans
- ☒ 1. $B = \frac{\mu_0}{4\pi} \frac{2I}{a^2} r$
 - ☒ 2. $B = \frac{\mu_0}{4\pi} \frac{2I}{r}$
 - ☒ 3. $B = \frac{\mu_0}{4\pi} \frac{2I}{r^3} a^2$
 - ☒ 4. $B = \frac{\mu_0}{4\pi} \frac{2I}{r^2} a$

Question Type : MCQ

Question ID : 630680816492

Option 1 ID : 6306803198243

Option 2 ID : 6306803198241

Option 3 ID : 6306803198244

Option 4 ID : 6306803198242

Status : Answered

Chosen Option : 4

Marks : -0.25

Q.145 Consider a rod of length 2m and its linear thermal expansion coefficient is $\alpha = 0.75 \times 10^{-5}/^\circ\text{C}$. Find the new length of the rod when its temperature is increased by 20°C .

- Ans
- ☒ 1. 201.03 cm
 - ☒ 2. 199.03 cm
 - ☒ 3. 200.03 cm
 - ☒ 4. 198.03 cm

Question Type : MCQ

Question ID : 630680816469

Option 1 ID : 6306803198150

Option 2 ID : 6306803198149

Option 3 ID : 6306803198151

Option 4 ID : 6306803198152

Status : Answered

Chosen Option : 1

Marks : -0.25

Q.146 If an object starts free falling from rest and it traverses a distance $y_0 = -\frac{1}{2}g\tau^2$ in a time interval τ , then the ratio of distances traversed by the object at intervals $\Delta t = 2\tau$ and $\Delta t = 3\tau$ will be:

- Ans
- ☒ 1. 5:7
 - ☒ 2. 3:5
 - ☒ 3. 4:9
 - ☒ 4. 1:3

Question Type : MCQ

Question ID : 630680816442

Option 1 ID : 6306803198044

Option 2 ID : 6306803198042

Option 3 ID : 6306803198043

Option 4 ID : 6306803198041

Status : Answered

Chosen Option : 3

Marks : 1

Q.147 Consider two satellites A and B revolving around the earth in two different circular orbits of radius $2R$ and $4R$, respectively. The ratio of their orbital velocities $V_A : V_B$ will be:

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

Question Type : MCQ

Question ID : 630680816461

Option 1 ID : 6306803198118

Option 2 ID : 6306803198120

Option 3 ID : 6306803198117

Option 4 ID : 6306803198119

Status : Answered

Chosen Option : 3

Marks : 1

Q.148 Consider a simple pendulum executing simple harmonic motion with time period 4 s. Then the kinetic energy of the same pendulum also changes periodically with a time period of:

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

Question Type : MCQ

Question ID : 630680816476

Option 1 ID : 6306803198177

Option 2 ID : 6306803198179

Option 3 ID : 6306803198178

Option 4 ID : 6306803198180

Status : Answered

Chosen Option : 2

Marks : -0.25

Q.149 A filament emits electrons when the potential difference of 400 V is applied across it. The wavelength associated with the electron is:

- Ans
- ☒ 1. 1.24 Å
 - ☒ 2. 0.62 Å
 - ☒ 3. 0.86 Å
 - ☒ 4. 1.72 Å

Question Type : MCQ

Question ID : 630680816514

Option 1 ID : 6306803198329

Option 2 ID : 6306803198330

Option 3 ID : 6306803198331

Option 4 ID : 6306803198332

Status : Answered

Chosen Option : 2

Marks : 1

Q.150 Which of the following equations can correctly describe the path of a projectile (a and b are constants)?

- Ans
- ☒ 1. $y = ax$
 - ☒ 2. $y = ax + bx^3$
 - ☒ 3. $y = ax^2 + bx^3$
 - ☒ 4. $y = ax + bx^2$

Question Type : MCQ

Question ID : 630680816443

Option 1 ID : 6306803198045

Option 2 ID : 6306803198047

Option 3 ID : 6306803198048

Option 4 ID : 6306803198046

Status : Answered

Chosen Option : 4

Marks : 1

Q.151 Which of the following statements is/are true?

Statement I: In the jigsaw teaching strategy, all the students in a group are expected to be expert in all the aspects of a learning task.

Statement II: The major focus of the group investigation strategy is to develop inquiry skills of students.

Statement III: A Physics teacher is expected to be well equipped with the content knowledge but not with the pedagogy of physical science.

- Ans
- ☒ 1. Only II
 - ☒ 2. Only I and III
 - ☒ 3. Only I
 - ☒ 4. Only I and II

Question Type : MCQ

Question ID : 630680816536

Option 1 ID : 6306803198420

Option 2 ID : 6306803198418

Option 3 ID : 6306803198419

Option 4 ID : 6306803198417

Status : Answered

Chosen Option : 4

Marks : -0.25

Q.152 A particle starts from origin at $t = 0$ with a velocity $3.0\hat{i}$ m/s and moves in a $x - y$ plane under the action of a force that produces an acceleration $2.0\hat{i} + 3.0\hat{j}$ m/s². The y - coordinate of the particle at the instant $t = 2$ s is:

- Ans
- ☒ 1. 4 m
 - ☒ 2. 6 m
 - ☒ 3. 9 m
 - ☒ 4. 2 m

Question Type : MCQ

Question ID : 630680816441

Option 1 ID : 6306803198038

Option 2 ID : 6306803198039

Option 3 ID : 6306803198040

Option 4 ID : 6306803198037

Status : Not Answered

Chosen Option : --

Marks : 0

Q.153 Suppose the lower half of a concave mirror's reflecting surface is covered with an opaque (non-reflective) material. Which of the following is true about the image formation?

- Ans
- ☒ 1. Half of the image will be seen and the intensity will be reduced.
 - ☒ 2. Full image will be seen and the intensity will be reduced.
 - ☒ 3. Full image will be seen and the intensity will be same.
 - ☒ 4. Half of the image will be seen and the intensity will be same.

Question Type : MCQ

Question ID : 630680816510

Option 1 ID : 6306803198313

Option 2 ID : 6306803198316

Option 3 ID : 6306803198315

Option 4 ID : 6306803198314

Status : Not Answered

Chosen Option : --

Marks : 0

Q.154 Two charges of $+3\mu\text{C}$ and $-3\mu\text{C}$ are placed at a distance of 6 cm to form an electric dipole. The maximum torque experienced by the dipole if it is placed in an electric field of 5×10^5 N/C is:

- Ans
- ☒ 1. 90×10^{-2} N m
 - ☒ 2. 0.9×10^{-2} N m
 - ☒ 3. 0.09×10^{-2} N m
 - ☒ 4. 9×10^{-2} N m

Question Type : MCQ

Question ID : 630680816481

Option 1 ID : 6306803198198

Option 2 ID : 6306803198199

Option 3 ID : 6306803198200

Option 4 ID : 6306803198197

Status : Answered

Chosen Option : 4

Marks : 1

Q.155 Consider two particles of equal mass 2kg situated at ($x_1 = 2\text{m}, y_1 = 3\text{m}$) and ($x_2 = -4\text{m}, y_2 = 1\text{m}$). Then the centre of mass of this two particle system will be at:

- Ans
- ☒ 1. $X = 1\text{ m}, Y = -2\text{ m}$
 - ☒ 2. $X = 1, Y = 2\text{ m}$
 - ☒ 3. $X = -1\text{ m}, Y = -2\text{ m}$
 - ☒ 4. $X = -1\text{ m}, Y = 2\text{ m}$

Question Type : MCQ

Question ID : 630680816454

Option 1 ID : 6306803198091

Option 2 ID : 6306803198089

Option 3 ID : 6306803198092

Option 4 ID : 6306803198090

Status : Answered

Chosen Option : 4

Marks : 1

Q.156 The ratio of the longest wavelength to the shortest wavelength in Paschen series of hydrogen spectrum is:

- Ans
- ☒ 1. $\frac{144}{7}$
 - ☒ 2. $\frac{9}{7}$
 - ☒ 3. $\frac{16}{7}$
 - ☒ 4. $\frac{12}{7}$

Question Type : MCQ

Question ID : 630680816517

Option 1 ID : 6306803198343

Option 2 ID : 6306803198341

Option 3 ID : 6306803198342

Option 4 ID : 6306803198344

Status : Answered

Chosen Option : 1

Marks : -0.25

Q.157 A Physics teacher prepares a plan for teaching before going into the classroom. This plan falls into the category of:

- Ans
- ☒ 1. lesson plan
 - ☒ 2. academic plan
 - ☒ 3. monthly plan
 - ☒ 4. unit plan

Question Type : MCQ

Question ID : 630680816533

Option 1 ID : 6306803198408

Option 2 ID : 6306803198405

Option 3 ID : 6306803198407

Option 4 ID : 6306803198406

Status : Answered

Chosen Option : 1

Marks : 1

Q.158 A particle is executing simple harmonic motion according to $y(t) = 3.0 \sin(10t)$, where y is in metres and t is in seconds. The maximum velocity (in m/s) of the particle is:

- Ans
- ☐ 1. 10.0
 - ☐ 2. 3.0
 - ☐ 3. 20.0
 - ☒ 4. 30.0

Question Type : MCQ

Question ID : 630680816478

Option 1 ID : 6306803198186

Option 2 ID : 6306803198185

Option 3 ID : 6306803198187

Option 4 ID : 6306803198188

Status : Answered

Chosen Option : 4

Marks : 1

Q.159 A whiteboard and a chalkboard are examples of:

- Ans
- ☐ 1. display aids
 - ☐ 2. presentation aids
 - ☒ 3. non-projected aids
 - ☐ 4. projected aids

Question Type : MCQ

Question ID : 630680816527

Option 1 ID : 6306803198383

Option 2 ID : 6306803198384

Option 3 ID : 6306803198382

Option 4 ID : 6306803198381

Status : Answered

Chosen Option : 1

Marks : -0.25

Q.160 Two objects of masses 6 kg and 4 kg are initially at rest and are kept at a distance of 30 m. If they start moving towards each other under the mutual force of attraction, they would meet at:

- Ans
- ☐ 1. 14 m from 4 kg mass
 - ☒ 2. 12 m from 6 kg mass
 - ☐ 3. 10 m from 6 kg mass
 - ☐ 4. 16 m from 4 kg mass

Question Type : MCQ

Question ID : 630680816457

Option 1 ID : 6306803198103

Option 2 ID : 6306803198102

Option 3 ID : 6306803198101

Option 4 ID : 6306803198104

Status : Not Answered

Chosen Option : --

Marks : 0

Q.161 In an atomic clock, time is measured on the periodic vibrations of _____ atom.

- Ans
- ✓ 1. caesium
 - ✗ 2. magnesium
 - ✗ 3. calcium
 - ✗ 4. carbon

Question Type : MCQ

Question ID : 630680816433

Option 1 ID : 6306803198006

Option 2 ID : 6306803198008

Option 3 ID : 6306803198005

Option 4 ID : 6306803198007

Status : Not Answered

Chosen Option : --

Marks : 0

Q.162 A periodic function is given by $3A \sin(2\omega t) + 4B \cos(2\omega t)$. Then the amplitude of this periodic wave is (A and B are two constants):

- Ans
- ✗ 1. $\sqrt{(9A^2 - 16B^2)}$
 - ✗ 2. $\sqrt{(A^2 - B^2)}$
 - ✗ 3. $\sqrt{(A^2 + B^2)}$
 - ✓ 4. $\sqrt{(9A^2 + 16B^2)}$

Question Type : MCQ

Question ID : 630680816477

Option 1 ID : 6306803198182

Option 2 ID : 6306803198184

Option 3 ID : 6306803198181

Option 4 ID : 6306803198183

Status : Answered

Chosen Option : 4

Marks : 1

Q.163 In a hydrogen atom, the radius of the innermost electron orbit is 5.3×10^{-11} m. The radius of the $n = 3$ orbit is _____.

- Ans
- ✗ 1. 8.48×10^{-10} m
 - ✓ 2. 4.77×10^{-10} m
 - ✗ 3. 1.59×10^{-10} m
 - ✗ 4. 2.12×10^{-10} m

Question Type : MCQ

Question ID : 630680816515

Option 1 ID : 6306803198336

Option 2 ID : 6306803198335

Option 3 ID : 6306803198334

Option 4 ID : 6306803198333

Status : Answered

Chosen Option : 2

Marks : 1

Q.164 Consider a wire of length 16 m is bent to form a circular loop of 40 turns. Then find the magnetic moment of the same circular loop if the current through the loop is 4 A.

- Ans
- ☒ 1. $1.6/\pi \text{ A m}^2$
 - ☒ 2. $3.2/\pi \text{ A m}^2$
 - ☒ 3. $12.8/\pi \text{ A m}^2$
 - ☒ 4. $6.4/\pi \text{ A m}^2$

Question Type : MCQ

Question ID : 630680816495

Option 1 ID : 6306803198253

Option 2 ID : 6306803198254

Option 3 ID : 6306803198256

Option 4 ID : 6306803198255

Status : Answered

Chosen Option : 4

Marks : 1

Q.165 A spaceship out in interstellar space is moving with a velocity v_0 , far from all other objects and with all its rockets turned off at $t=0$ s. After $t = 3600$ s, the velocity of the spaceship will be:

- Ans
- ☒ 1. v_0
 - ☒ 2. $3v_0$
 - ☒ 3. $5v_0$
 - ☒ 4. 0

Question Type : MCQ

Question ID : 630680816445

Option 1 ID : 6306803198054

Option 2 ID : 6306803198055

Option 3 ID : 6306803198056

Option 4 ID : 6306803198053

Status : Not Answered

Chosen Option : --

Marks : 0

Q.166 Suppose in a charge configuration, a point charge of strength $+54 \mu\text{C}$ is placed at a distance 10 cm above the centre of a square of length 60 cm. Hence the magnitude of the electric flux through the square is (consider $\epsilon_0 = 9 \times 10^{-12} \text{ N}^{-1} \text{ C}^2 \text{ m}^{-2}$):

- Ans
- ☒ 1. $10^5 \text{ N m}^2 \text{ C}^{-1}$
 - ☒ 2. $10^4 \text{ N m}^2 \text{ C}^{-1}$
 - ☒ 3. $10^6 \text{ N m}^2 \text{ C}^{-1}$
 - ☒ 4. $10^7 \text{ N m}^2 \text{ C}^{-1}$

Question Type : MCQ

Question ID : 630680816485

Option 1 ID : 6306803198214

Option 2 ID : 6306803198213

Option 3 ID : 6306803198215

Option 4 ID : 6306803198216

Status : Not Answered

Chosen Option : --

Marks : 0

Q.167 If the orbital speed in the ground state of a hydrogen atom is v_0 , then the orbital speed in the 2nd excited state of the hydrogen atom will be:

Ans

☐ 1. $\frac{v_0}{2}$

☐ 2. $2v_0$

☒ 3. $\frac{v_0}{3}$

☐ 4. $3v_0$

Question Type : MCQ

Question ID : 630680816516

Option 1 ID : 6306803198338

Option 2 ID : 6306803198337

Option 3 ID : 6306803198340

Option 4 ID : 6306803198339

Status : Answered

Chosen Option : 3

Marks : 1

Q.168 Given below are a few statements related to audio-visual aids.

Statement I: They capture attention, arouse and sustain interest.

Statement II: They do not help in learning in a faster way and with thoroughness.

Statement III: They save the instructor's time.

Which of the above-mentioned statements is/are true?

Ans

☐ 1. Only I and II

☒ 2. Only I and III

☐ 3. Only I

☐ 4. Only II

Question Type : MCQ

Question ID : 630680816541

Option 1 ID : 6306803198439

Option 2 ID : 6306803198440

Option 3 ID : 6306803198437

Option 4 ID : 6306803198438

Status : Answered

Chosen Option : 2

Marks : 1

Q.169 Consider two travelling sinusoidal waves, each of frequency 40 Hz, produce standing waves in a string. If the distance between the fourth node to the fifth node is 30 cm, then the wavelength of each travelling wave is:

- Ans
- ☒ 1. 90 cm
 - ☒ 2. 30 cm
 - ☒ 3. 60 cm
 - ☒ 4. 15 cm

Question Type : MCQ
Question ID : 630680816479
Option 1 ID : 6306803198192
Option 2 ID : 6306803198189
Option 3 ID : 6306803198191
Option 4 ID : 6306803198190
Status : Answered
Chosen Option : 3
Marks : 1

Q.170 The average speed should always be:

- Ans
- ☒ 1. either equal or greater than the magnitude of the average velocity
 - ☒ 2. two times the magnitude of the average velocity
 - ☒ 3. either equal or less than the magnitude of the average velocity
 - ☒ 4. equal to the magnitude of the average velocity

Question Type : MCQ
Question ID : 630680816439
Option 1 ID : 6306803198032
Option 2 ID : 6306803198030
Option 3 ID : 6306803198031
Option 4 ID : 6306803198029
Status : Answered
Chosen Option : 3
Marks : 1

Q.171 Two conductors, A and B have mobility μ_A and μ_B with collision time's τ_0 and $3\tau_0$, respectively. The ratio of mobility between conductors A and B will be _____.

- Ans
- ☒ 1. 3: 1
 - ☒ 2. 9:1
 - ☒ 3. 1: 3
 - ☒ 4. 1:9

Question Type : MCQ
Question ID : 630680816487
Option 1 ID : 6306803198221
Option 2 ID : 6306803198224
Option 3 ID : 6306803198222
Option 4 ID : 6306803198223
Status : Not Answered
Chosen Option : --
Marks : 0

Q.172 Read the given four facts about solar cells and identify which of them is true.

- (i) The I – V characteristics of solar cell is drawn in the fourth quadrant of the coordinate axes.
- (ii) Semiconductors with band gap close to 1.5 eV are ideal materials for solar cell fabrication.
- (iii) Si and GaAs are preferred materials for solar cells.
- (iv) The generation of EMF by a solar cell, when light falls on it is due to the following two basic processes: generation and recombination.

- Ans
- ☒ 1. Only (i) and (ii) are true
 - ☒ 2. Only (i) is true
 - ☒ 3. All (i),(ii), (iii), (iv) are true
 - ☒ 4. Only (i), (ii) and (iii) are true

Question Type : MCQ
 Question ID : 630680816523
 Option 1 ID : 6306803198367
 Option 2 ID : 6306803198368
 Option 3 ID : 6306803198365
 Option 4 ID : 6306803198366
 Status : Not Answered
 Chosen Option : --
 Marks : 0

Q.173 Till proportional limit, the stress versus strain curve of a material is a:

- Ans
- ☒ 1. elliptic curve
 - ☒ 2. parabolic curve
 - ☒ 3. hyperbolic
 - ☒ 4. linear curve

Question Type : MCQ
 Question ID : 630680816463
 Option 1 ID : 6306803198127
 Option 2 ID : 6306803198125
 Option 3 ID : 6306803198128
 Option 4 ID : 6306803198126
 Status : Answered
 Chosen Option : 4
 Marks : 1

Q.174 The motion of a particle of mass m can be described by $x(t) = u_0 t + 2gt^2$. Then the force acting on the particle can be given by:

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

Question Type : MCQ
 Question ID : 630680816446
 Option 1 ID : 6306803198060
 Option 2 ID : 6306803198058
 Option 3 ID : 6306803198059
 Option 4 ID : 6306803198057
 Status : Answered
 Chosen Option : 1
 Marks : 1

Q.175 A sinusoidal voltage of peak value 240 V and frequency 60 Hz is applied to a series LCR circuit with resistance $R = 12 \Omega$, inductive reactance $X_L = 16 \Omega$ and capacitive reactance $X_C = 16 \Omega$. The power dissipated in the circuit and the power factor of the circuit, respectively, are:

- Ans ☒ 1. 2400 W; 1.0
☒ 2. 2400 W; 0.5
☒ 3. 4800 W; 1.0
☒ 4. 4800 W; 0.5

Question Type : MCQ

Question ID : 630680816500

Option 1 ID : 6306803198274

Option 2 ID : 6306803198273

Option 3 ID : 6306803198276

Option 4 ID : 6306803198275

Status : Answered

Chosen Option : 3

Marks : -0.25

Q.176 A spherical particle of radius R moving through a viscous liquid of viscosity (η) , attains a terminal velocity v_t . If the viscosity of the liquid is tripled, then the terminal velocity of the same spherical particle will (consider other conditions remain the same):

- Ans ☒ 1. decrease by 9 times
☒ 2. increase by 9 times
☒ 3. decrease by 3 times
☒ 4. increase by 3 times

Question Type : MCQ

Question ID : 630680816466

Option 1 ID : 6306803198140

Option 2 ID : 6306803198138

Option 3 ID : 6306803198139

Option 4 ID : 6306803198137

Status : Answered

Chosen Option : 3

Marks : 1

Q.177 The slope of the position-time graph of an object is the:

- Ans ☒ 1. acceleration of the object
☒ 2. average velocity of the object
☒ 3. average speed of the object
☒ 4. force acting on the object

Question Type : MCQ

Question ID : 630680816437

Option 1 ID : 6306803198023

Option 2 ID : 6306803198022

Option 3 ID : 6306803198021

Option 4 ID : 6306803198024

Status : Answered

Chosen Option : 2

Marks : 1

Q.178 The Physics teacher of Rahul has assigned him a project on the solar system. This falls into the category of:

- Ans
- ☐ 1. learner-centred curriculum
 - ☐ 2. subject-based curriculum
 - ☐ 3. teacher-centred curriculum
 - ☒ 4. activity-based curriculum

Question Type : MCQ

Question ID : 630680816526

Option 1 ID : 6306803198380

Option 2 ID : 6306803198378

Option 3 ID : 6306803198377

Option 4 ID : 6306803198379

Status : Answered

Chosen Option : 4

Marks : 1

Q.179 The word 'Pedagogy' actually means:

- Ans
- ☐ 1. to understand the student
 - ☐ 2. to motivate the student
 - ☐ 3. to lead the student towards the modern technology
 - ☒ 4. the method of how teachers teach, in theory and in practice

Question Type : MCQ

Question ID : 630680816524

Option 1 ID : 6306803198372

Option 2 ID : 6306803198369

Option 3 ID : 6306803198370

Option 4 ID : 6306803198371

Status : Answered

Chosen Option : 4

Marks : 1

Q.180 When a radiation of $1.414 \text{ \AA}$ is allowed to fall on a crystal with a grazing angle 45° , the inter-planar spacing of the crystal is _____. (Assume $n = 1$.)

- Ans
- ☐ 1. $1.414 \times 10^{-9} \text{ m}$
 - ☐ 2. $1.414 \times 10^{-10} \text{ m}$
 - ☐ 3. 10^{-9} m
 - ☒ 4. 10^{-10} m

Question Type : MCQ

Question ID : 630680816513

Option 1 ID : 6306803198328

Option 2 ID : 6306803198326

Option 3 ID : 6306803198327

Option 4 ID : 6306803198325

Status : Not Answered

Chosen Option : --

Marks : 0

Q.181 Pramila, a Physics teacher of Class XI, wants to introduce the best strategy for peer learning. Which of the following should she adopt?

- Ans
- ☒ 1. Making a group of 5 students in alphabetical order
 - ☒ 2. Making a homogeneous group of 5 students of the same gender and the same socio-economic background
 - ☒ 3. Making a group of 5 students who score the same (on average) in the exams
 - ☒ 4. Making a heterogeneous group of 5 students based on their involvement and collaboration in the class

Question Type : MCQ
 Question ID : 630680816529
 Option 1 ID : 6306803198389
 Option 2 ID : 6306803198391
 Option 3 ID : 6306803198390
 Option 4 ID : 6306803198392
 Status : Answered
 Chosen Option : 4
 Marks : 1

Q.182 Textbooks, reference books, lesson plans and workbooks are examples of:

- Ans
- ☒ 1. graphic and interactive materials
 - ☒ 2. traditional resource materials
 - ☒ 3. tests and assessment materials
 - ☒ 4. presentation items

Question Type : MCQ
 Question ID : 630680816528
 Option 1 ID : 6306803198385
 Option 2 ID : 6306803198388
 Option 3 ID : 6306803198387
 Option 4 ID : 6306803198386
 Status : Answered
 Chosen Option : 2
 Marks : 1

Q.183 Consider a spherical drop of radius R and the spherical bubble of radius $2R$ and both of them have equal surface tension T . The ratio of the excess pressure inside the spherical drop to the spherical bubble is:

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

Question Type : MCQ
 Question ID : 630680816467
 Option 1 ID : 6306803198142
 Option 2 ID : 6306803198144
 Option 3 ID : 6306803198143
 Option 4 ID : 6306803198141
 Status : Not Answered
 Chosen Option : --
 Marks : 0

Q.184 The capacitance of a parallel plate capacitor increases from 60F to 210 F on introducing a dielectric medium between the plates. The dielectric constant of the inserted medium is:

- Ans
- ☒ 1. 3.8
 - ☒ 2. 3.2
 - ☒ 3. 3.5
 - ☒ 4. 1.9

Question Type : MCQ

Question ID : 630680816484

Option 1 ID : 6306803198212

Option 2 ID : 6306803198210

Option 3 ID : 6306803198211

Option 4 ID : 6306803198209

Status : Answered

Chosen Option : 3

Marks : 1

Q.185 The following are a few steps in the direct instructional method.

A: Monitor and diagnose progress

B: Teach/re-teach

C: Provide feedback

D: Present new content

E: Practise

Which of the following sequences correctly describes the direct instructional method?

- Ans
- ☒ 1. A, B, C, D, E
 - ☒ 2. A, C, D, E, B
 - ☒ 3. A, D, E, C, B
 - ☒ 4. B, E, A, C, D

Question Type : MCQ

Question ID : 630680816538

Option 1 ID : 6306803198428

Option 2 ID : 6306803198427

Option 3 ID : 6306803198426

Option 4 ID : 6306803198425

Status : Answered

Chosen Option : 3

Marks : 1

Q.186 In a rectilinear motion, the objects in motion are considered to be:

- Ans
- ☐ 1. a collection of small spherical objects
 - ☐ 2. large ellipsoid objects
 - ☐ 3. large spherical objects
 - ☒ 4. point objects

Question Type : MCQ

Question ID : 630680816436

Option 1 ID : 6306803198020

Option 2 ID : 6306803198017

Option 3 ID : 6306803198018

Option 4 ID : 6306803198019

Status : Answered

Chosen Option : 4

Marks : 1

Q.187 Suppose two waves A and B of wavelengths λ and 2λ , respectively are scattered by atmospheric particles. The ratio of their scattering intensity $I_A:I_B$ is:

- Ans
- ☐ 1. 8:1
 - ☐ 2. 1:16
 - ☐ 3. 1:8
 - ☒ 4. 16:1

Question Type : MCQ

Question ID : 630680816502

Option 1 ID : 6306803198284

Option 2 ID : 6306803198281

Option 3 ID : 6306803198283

Option 4 ID : 6306803198282

Status : Answered

Chosen Option : 2

Marks : -0.25

Q.188 Which of the following is true about average speed and average velocity?

- Ans
- ☐ 1. Both should always be negative or zero
 - ☐ 2. Both should always be positive or zero
 - ☐ 3. Average speed can be positive, negative or zero, but average velocity is always positive
 - ☒ 4. Average velocity can be positive, negative or zero, but average speed is always positive

Question Type : MCQ

Question ID : 630680816438

Option 1 ID : 6306803198026

Option 2 ID : 6306803198025

Option 3 ID : 6306803198027

Option 4 ID : 6306803198028

Status : Answered

Chosen Option : 4

Marks : 1

Q.189 The length 2.308 cm can be written in different units as 0.02308 m, 23.08 mm. Which of the following is true about the above three numbers?

- Ans
- ☒ 1. They have different number of significant figures.
 - ☒ 2. All of them have 4 significant figures 2,3, 0, and 8.
 - ☒ 3. All of them have only 1 significant figure 2.
 - ☒ 4. All of them have 3 significant figures 2,3, and 8.

Question Type : MCQ

Question ID : 630680816435

Option 1 ID : 6306803198013

Option 2 ID : 6306803198015

Option 3 ID : 6306803198016

Option 4 ID : 6306803198014

Status : Answered

Chosen Option : 1

Marks : -0.25

Q.190 In the Rutherford's scattering experiment, the incident alpha particles scattered from the target foil:

- Ans
- ☒ 1. are rebounded only if alpha particles meet the criteria of laws of Brewster
 - ☒ 2. are rebounded back in large number
 - ☒ 3. are not rebounded back at all
 - ☒ 4. are rebounded back in small number

Question Type : MCQ

Question ID : 630680816511

Option 1 ID : 6306803198320

Option 2 ID : 6306803198317

Option 3 ID : 6306803198318

Option 4 ID : 6306803198319

Status : Answered

Chosen Option : 2

Marks : -0.25

Q.191 In a Young's double slit experiment, the distance between the slit and the screen is D and the separation between the slit is d , then the fringe width becomes β_0 . If the distance is increased to $3D$ and slit separation is decreased to $d/4$, then the fringe width will be (using the same source):

- Ans
- ☒ 1. $\frac{3}{4}\beta_0$
 - ☒ 2. $6\beta_0$
 - ☒ 3. $12\beta_0$
 - ☒ 4. $\frac{4}{3}\beta_0$

Question Type : MCQ

Question ID : 630680816505

Option 1 ID : 6306803198294

Option 2 ID : 6306803198296

Option 3 ID : 6306803198295

Option 4 ID : 6306803198293

Status : Answered

Chosen Option : 3

Marks : 1

Q.192 A Physics teacher wants to start his class. Which of the following can be the best way for him to start his classroom communication?

- Ans
- ☒ 1. With unrelated questions
 - ☒ 2. With commanding comments
 - ☒ 3. With anecdotes
 - ☒ 4. With casual comments

Question Type : MCQ
 Question ID : 630680816543
 Option 1 ID : 6306803198447
 Option 2 ID : 6306803198448
 Option 3 ID : 6306803198446
 Option 4 ID : 6306803198445
 Status : Answered
 Chosen Option : 3
 Marks : 1

Q.193 The charge carriers in a n-type semiconductor are:

- Ans
- ☒ 1. large number of electrons and a small number of holes
 - ☒ 2. only electrons
 - ☒ 3. equal number of holes and electrons
 - ☒ 4. large number of holes and a small number of electrons

Question Type : MCQ
 Question ID : 630680816520
 Option 1 ID : 6306803198354
 Option 2 ID : 6306803198356
 Option 3 ID : 6306803198353
 Option 4 ID : 6306803198355
 Status : Answered
 Chosen Option : 1
 Marks : 1

Q.194 An object with mass 2 kg is moving under a force and the relation between time and displacement is given as $x=t^3/3$, where x is expressed in metres and t is in seconds. What is the work done in the first two seconds?

- Ans
- ☒ 1. 8 J
 - ☒ 2. 4 J
 - ☒ 3. 12 J
 - ☒ 4. 16 J

Question Type : MCQ
 Question ID : 630680816451
 Option 1 ID : 6306803198078
 Option 2 ID : 6306803198077
 Option 3 ID : 6306803198079
 Option 4 ID : 6306803198080
 Status : Answered
 Chosen Option : 4
 Marks : 1

Q.195 Suppose a 10 C charge is placed in a medium having relative permittivity 50. The amount of flux coming out of that charge is (consider $\epsilon_0 = 10^{-12}$ F/m):

- Ans
- ✓ 1. $2 \times 10^{10} \text{ Nm}^2\text{C}^{-1}$
 - ✗ 2. $2 \times 10^{12} \text{ Nm}^2\text{C}^{-1}$
 - ✗ 3. $2 \times 10^9 \text{ Nm}^2\text{C}^{-1}$
 - ✗ 4. $2 \times 10^{11} \text{ Nm}^2\text{C}^{-1}$

Question Type : MCQ

Question ID : 630680816482

Option 1 ID : 6306803198203

Option 2 ID : 6306803198201

Option 3 ID : 6306803198204

Option 4 ID : 6306803198202

Status : Answered

Chosen Option : 1

Marks : 1

Q.196 A constant current 2 A is maintained in a coil of pure inductance of 3 H. The energy stored in the coil is:

- Ans
- ✗ 1. 8 J
 - ✓ 2. 6 J
 - ✗ 3. 4 J
 - ✗ 4. 10 J

Question Type : MCQ

Question ID : 630680816496

Option 1 ID : 6306803198259

Option 2 ID : 6306803198258

Option 3 ID : 6306803198257

Option 4 ID : 6306803198260

Status : Answered

Chosen Option : 2

Marks : 1

Q.197 In a Zener regulated power supply, a Zener diode with $V_Z = 10.0$ V is used for regulation. The load current is to be 6.0 mA and the unregulated input is 20.0 V. What should be the value of series resistor R_S ?

- Ans
- ✗ 1. 177 Ω
 - ✗ 2. 477 Ω
 - ✗ 3. 377 Ω
 - ✓ 4. 277 Ω

Question Type : MCQ

Question ID : 630680816522

Option 1 ID : 6306803198364

Option 2 ID : 6306803198361

Option 3 ID : 6306803198362

Option 4 ID : 6306803198363

Status : Answered

Chosen Option : 1

Marks : -0.25

**Test
Prime**

By Adda247

PREVIOUS YEAR PAPERS PDF



PRACTICE MORE, SCORE HIGHER!



**Free
25,000+
PDF's**

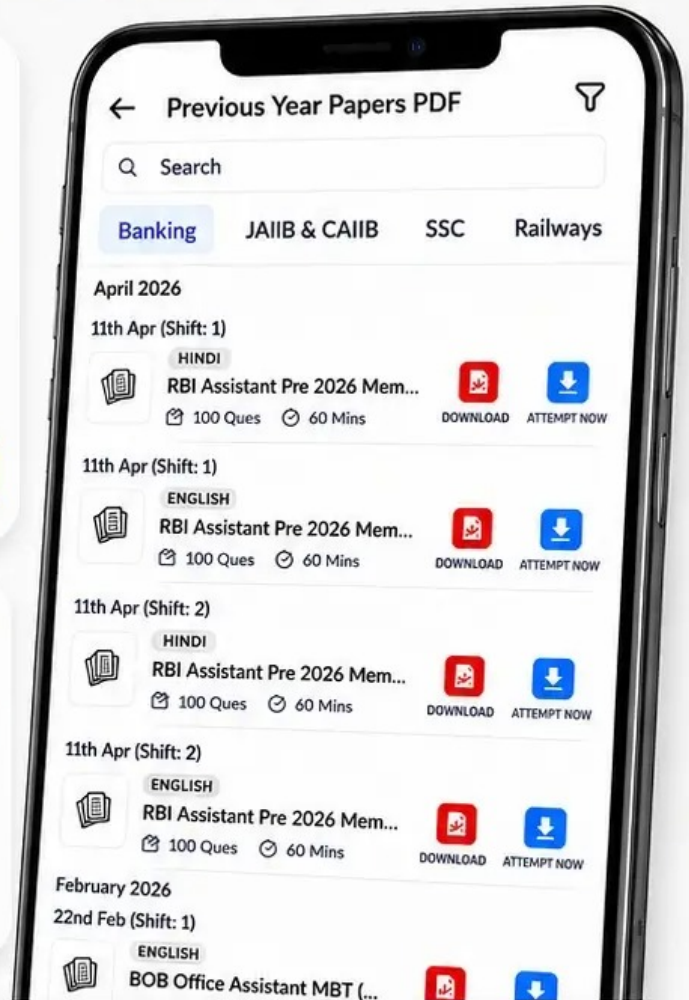
High-Quality | Exam-Wise | Updated Regularly



**ATTEMPT AS
MOCK**



Turn PDFs into real exam experience.
Analyze. Improve. Succeed.



Topic-wise &
Exam-wise PDFs



Download &
Study Offline



Attempt as Mock
& Track Score



Smart Analysis
& Performance

AVAILABLE IN



Banking



SSC



Railway



Teaching



UGC



Agriculture



Nursing



Bihar



UP



Punjab



WB



Odisha



TN



AP & Telangana



Haryana



DOWNLOAD TEST PRIME

Test

Prime



SUCCESS GALLERY!

★ MEET THE ACHIEVERS ★



Kunal, RRB JE



Shivam, UPSSSC AGTA



Priya, ANM



KHALILUR, LDA



Manoj, PWD



Atin, JENPAS



Shatarupa, OPSC



Arpita, JENPAS



Shital, SSC JE (Mech)



Nancy, UGC NET



Atul, SSC JE (ELCT)



Rahul, SSC JE (CIVIL)



Anand, SSC JE (ELCT)



Mohan, SSC JE (ELCT)



Saurabh, UGC NET



Ved, SSC JE (Mech)

★ THEY DID IT. YOU CAN TOO ★

READ THEIR STORIES!



Q.198 How many base units are there in the SI system of units?

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

Question Type : MCQ
 Question ID : 630680816432
 Option 1 ID : 6306803198001
 Option 2 ID : 6306803198003
 Option 3 ID : 6306803198002
 Option 4 ID : 6306803198004
 Status : Answered
 Chosen Option : 1
 Marks : -0.25

Q.199 In the context of the constructivist learning theory, which of the following statements holds true?

- Ans
- ☐ 1. Learners receive information in a passive way.
 - ☒ 2. Learners play an active role in building their understanding.
 - ☐ 3. Learning is a passive process rather than an active process.
 - ☐ 4. Knowledge is innate rather than constructed.

Question Type : MCQ
 Question ID : 630680816531
 Option 1 ID : 6306803198398
 Option 2 ID : 6306803198397
 Option 3 ID : 6306803198399
 Option 4 ID : 6306803198400
 Status : Answered
 Chosen Option : 2
 Marks : 1

Q.200 A radioactive nucleus (mass number A and atomic number Z) emits 2 alpha particles and 2 positrons. The ratio of the number of neutrons to that of the protons in the resultant nucleus is:

- Ans
- ☒ 1. $(A - Z - 2) / (Z - 6)$
 - ☐ 2. $(A - Z - 8) / (Z - 4)$
 - ☐ 3. $(A - Z - 8) / (Z - 6)$
 - ☐ 4. $(A - Z - 4) / (Z - 4)$

Question Type : MCQ
 Question ID : 630680816518
 Option 1 ID : 6306803198347
 Option 2 ID : 6306803198348
 Option 3 ID : 6306803198346
 Option 4 ID : 6306803198345
 Status : Answered
 Chosen Option : 1
 Marks : 1