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OAVS
PGT
Previous Year Paper
(Physics)
05 Jun, 2024 Shift 2

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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**

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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**

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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**

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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**

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

Though the pandemic has caused widespread <u>distress</u> 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**

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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**

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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 <u>rejoice</u> 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**

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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. Pnimonia
✗ 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'ରୂଢିଟିର ଅର୍ଥ କ'ଣ ?**

Ans
✗ 1. ଠେକିରେ ପାଣି ଢାଳିବା
✗ 2. ଠେକିରୁ ପାଣି ଆଣିଦେବା
✗ 3. ଠେକିରେ ମୁହଁ 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**

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Q.22 ତମେ _____ ଏତେ ଭୁଲ କରନାହିଁ । ଉପଯୁକ୍ତ ଶବ୍ଦ ଯୋଗରେ ବାକ୍ୟଟିର ଶୁଦ୍ଧ ରୂପ ପ୍ରକାଶ କର ।

Ans
✗ 1. ଯେତିକି
✗ 2. ଯଥା
✓ 3. ଥରକୁଥର
✗ 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'ରୂଢିଟିର ଅର୍ଥ କ'ଣ ?

Ans
✗ 1. କେବଳ ଛୁଞ୍ଚି ଓ ମାଛିକୁ ପରୀକ୍ଷା କରିବା
✗ 2. ଛୁଞ୍ଚିକୁ ମାଛି ପରି ଦେଖିବା
✗ 3. ଛୁଞ୍ଚି ଓ ମାଛି ଦେଖିବା
✓ 4. ତନ୍ନତନ୍ନ 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 ଚିହ୍ନାଇ 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**

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Q.25 ନିମ୍ନମଧ୍ୟରୁ ଭୁଲ ଶବ୍ଦଟିକୁ ଚିହ୍ନାଇ ଦିଅ ।

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 ଚିହ୍ନାଇ ଦିଅ ।

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**

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Q.28 ନିମ୍ନମଧ୍ୟରୁ ଭୁଲ ଶବ୍ଦଟିକୁ ଚିହ୍ନାଇ ଦିଅ ।

Ans
✗ 1. ଭୂମ୍ୟଧିକାରୀ
✓ 2. ବୈଷମ୍ୟତା
✗ 3. ଭ୍ରାତୃଗଣ
✗ 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 ଉକ୍ତିରେ ପ୍ରକାଶ କଲେ କେଉଁଟି ଠିକ୍ ବାକ୍ୟ ?

Ans
✗ 1. ଅଶୋକ ତାଙ୍କର ସମସ୍ତ ପ୍ରଜାଙ୍କର ସୁଖ ଚାହିଁଲେ ।
✗ 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 ଅମ୍ବର' - ଏହାକୁ ଏକପଦରେ ପ୍ରକାଶ କଲେ ନିମ୍ନ ମଧ୍ୟରୁ କେଉଁଟି ଠିକ୍ ହେବ?

Ans
✗ 1. ରକ୍ତମ୍ବର
✗ 2. ରତାମ୍ବର
✗ 3. ରତାମ୍ବର
✓ 4. ରକ୍ତାମ୍ବର

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**

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Q.31 ନିମ୍ନ ବାକ୍ୟ ମଧ୍ୟରୁ କେଉଁଟି କର୍ତ୍ତୃ ବାଚ୍ୟର ଉଦାହରଣ ଚିହ୍ନାଇ ଦିଅ ?

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 ସ୍ଲେଟରେ ଅଙ୍କ କଷୁ 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 ଦର୍ଶାଅ ?

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**

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Q.34 ନିମ୍ନମଧ୍ୟରୁ କେଉଁ ବାକ୍ୟଟି ଶୁଦ୍ଧ ଦର୍ଶାଅ ?

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. ଦୋଷଯୁକ୍ତ
✘ 3. ଦୋଷୀମୁକ୍ତ
✘ 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**

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Q.37 'କାମରେ ହାତ ଦେବା'ରୂଢିଟିର 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 ଚିହ୍ନାଇ ଦିଅ ।

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. ମାଘରେ
✗ 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**

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Q.40 ହରିବାବୁ ତାଙ୍କ ଚାକରକୁ କହିଲେ, "ଏହିକ୍ଷଣି ବଜାରକୁ ଯାଇ ପରିବା ଆଣ" । ଏହି ବାକ୍ୟଟିକୁ ପରୋକ୍ଷ ଉକ୍ତିରେ ପ୍ରକାଶ କଲେ କେଉଁଟି ଠିକ୍ ବାକ୍ୟ ହେବ?

Ans
✗ 1. ସେହିକ୍ଷଣି ବଜାରରୁ ପରିବା ଆଣିବା ପାଇଁ ହରିବାବୁ ତାଙ୍କ ଚାକର ସହିତ ଗଲେ ।
✗ 2. ସେହିକ୍ଷଣି ବଜାରକୁ ଯାଇ ପରିବା ଆଣିବା ପାଇଁ ହରିବାବୁ ତାଙ୍କ ଚାକରକୁ ଅନୁରୋଧ କଲେ ।
✓ 3. ସେହିକ୍ଷଣି ବଜାରକୁ ଯାଇ ପରିବା ଆଣିବା ପାଇଁ ହରିବାବୁ ତାଙ୍କ ଚାକରକୁ ଆଦେଶ ଦେଲେ ।
✗ 4. ଏହିକ୍ଷଣି ବଜାରକୁ ଯାଇ ପରିବା ଆଣିବା ପାଇଁ ହରିବାବୁ 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**

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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**

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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**

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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**

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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**

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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**

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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**

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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**

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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**

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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**

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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**

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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**

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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**

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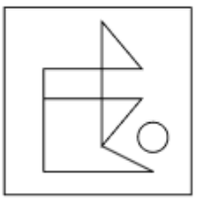
Q.77 **Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).**

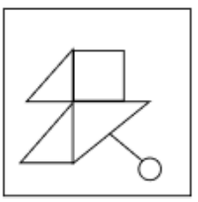
(X)

Ans

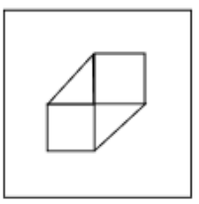
✗ 1.



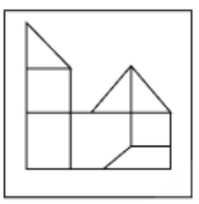
✗ 2.



✗ 3.



✓ 4.



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

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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**

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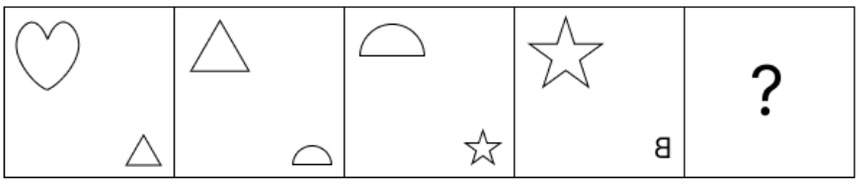
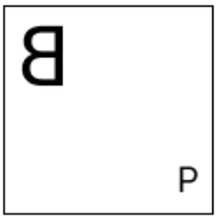
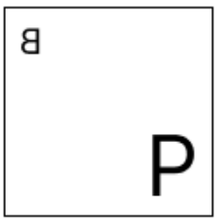
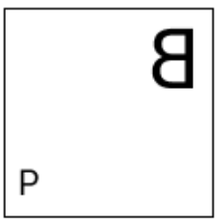
Q.80 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.

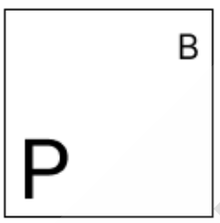


Ans

✔ 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**

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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**

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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**

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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**

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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**

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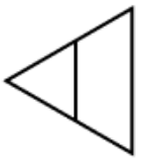
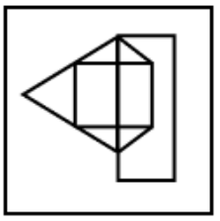
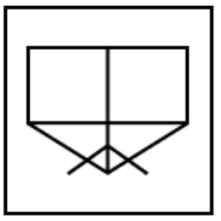
Q.89 Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).

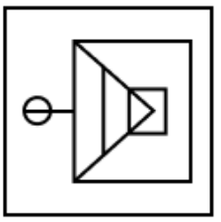


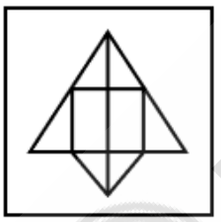
(X)

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**

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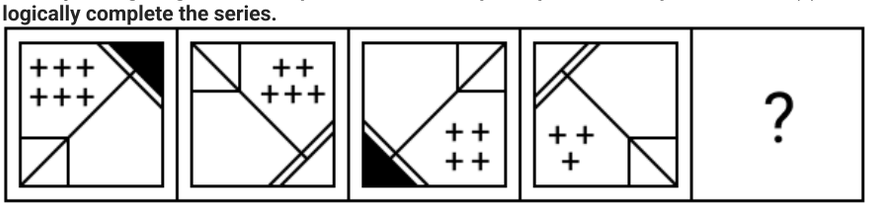
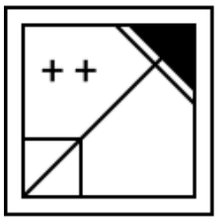
Q.90 Identify the figure given in the options which when put in place of the question mark (?) will logically complete the series.



Ans

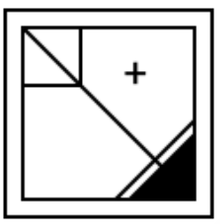
✔ 1.



✗ 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**

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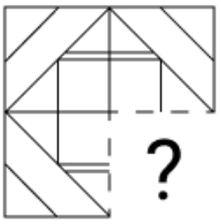
Q.91 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern.

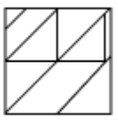


Ans

✗ 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**

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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**

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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**

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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**

Section : **Subject Content & Methodology**

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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. $\frac{1}{2}(v+v_0)t-v_0t$

✗ 2. $\frac{1}{2}(v+v_0)t+v_0t$

✗ 3. $\frac{1}{2}(v-v_0)t-v_0t$

✓ 4. $\frac{1}{2}(v-v_0)t+v_0t$

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**

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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**

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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* = 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**

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

Ans

✔ 1. $10^{10}/m^3$

✗ 2. $10^{11}/m^3$

✗ 3. $3 \times 10^{10}/m^3$

✗ 4. $9 \times 10^{11}/m^3$

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**

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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 mH, then C is given by (consider $\pi^2 \sim 10$):

Ans

✗ 1. 0.001 μF

✓ 2. 0.01 μF

✗ 3. 0.0001 μF

✗ 4. 0.1 μF

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**

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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. Theproportionality 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**

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Q.119 If the radioactive decay constant of a radioactive substance is 0.231 per year, what is the half-life of the substance (ln2 = 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**

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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 magneticfield 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**

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Q.125 A ray of light is incident on a prism made of a transparent material with $A = 45°$ 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 $\sin(22.5°) = 0.4$ 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 (μ=3/2) of refracting angle 60°. It is completely immersed in a liquid (μ=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**

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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**

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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 ($g = 10\ m/s^2$):

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 3×10^8 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 $g = 10 m/s^2$)?

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**

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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**

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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**

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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 μC and is placed at x=20 cm. The other charge B is of −4 μC and is kept at x=10 cm. The potential at x = 50 cm from the origin due to the above system is:

Ans

✗ 1. 9×10^2 V

✔ 2. 9×10^4 V

✗ 3. 0 V

✗ 4. 9×10^8 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**

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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 $\alpha = 0.75*10^{-5}/°C$. 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**

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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**

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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**

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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/s^2. 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 +3μC and −3μC 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**

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

Ans

✗ 1. $X = 1\ m, Y = -2\ m$

✗ 2. $X = 1, Y = 2\ m$

✗ 3. $X = -1\ m, Y = -2\ m$

✓ 4. $X = -1\ m, Y = 2\ m$

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**

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Q.158 A particle is executing simple harmonic motion according to $y(t) = 3.0 \sin(10\,t)$, 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**

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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**

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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. $1.6/\pi\ \mathrm{A\,m^2}$

✗ 2. $3.2/\pi\ \mathrm{A\,m^2}$

✗ 3. $12.8/\pi\ \mathrm{A\,m^2}$

✓ 4. $6.4/\pi\ \mathrm{A\,m^2}$

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 μC 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 $\epsilon_0 = 9 \times 10^{-12} \mathrm{N^{-1}\ C^2\ m^{-2}}$):

Ans

✗ 1. $10^5\ \mathrm{N\,m^2\ C^{-1}}$

✗ 2. $10^4\ \mathrm{N\,m^2\ C^{-1}}$

✓ 3. $10^6\ \mathrm{N\,m^2\ C^{-1}}$

✗ 4. $10^7\ \mathrm{N\,m^2\ C^{-1}}$

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**

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Q.167 If the orbital speed in the ground state of a hydrogen atom is v_0 , then the orbital speed in the 2^{nd} 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**

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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**

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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**

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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 Ω, inductive reactance X_L =16 Ω and capacitive reactance X_C =16 Ω. 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**

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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 Å 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. 1.414×10^{-9}m

✗ 2. 1.414×10^{-10}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**

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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**

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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**

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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**

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Q.189 The length 2.308 cm can be written in different units as 0.02308 m, 23.08 mm. Which of the followingis 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**

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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**

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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 $\epsilon_0 = 10^{-11}$ F/m):

Ans

✔ 1. $2 \times 10^{10}\ Nm^2C^{-1}$

✘ 2. $2 \times 10^{12}\ Nm^2C^{-1}$

✘ 3. $2 \times 10^{9}\ Nm^2C^{-1}$

✘ 4. $2 \times 10^{11}\ Nm^2C^{-1}$

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**

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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**

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