

**COMBO - ଓଡ଼ିଶା**  
**32,000- PYQ**  
**ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ**  
 ପୂର୍ବ 5 ବର୍ଷର **OSSSC, OSSC, OPSC**, ପୋଲିସ, **CT, B.ED**, ଅନ୍ୟ ସବୁ ପ୍ରଶ୍ନ  
**GK, ODIA, ENGLISH, , MATH, COMPUTER, Reasoning, Pedagogy**

**GK- ଓଡ଼ିଶାର**  
**ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ**  
**11,685- PYQ**  
**ଓଡ଼ିଆ ଓ ଇଂରାଜୀ ରେ**  
**EXPLANATION**  
**OSSSC, OSSC, OPSC, Police SI /Constable, PEO, RI, Battalion, Fireman, B.ED, JT, RHT, CT, OAVS, OSSTET, OTET & Other**

**ଓଡ଼ିଆ ବ୍ୟାକରଣ**  
**ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ**  
**4,343- PYQ**  
**75- TEST**  
**E-BOOK- PDF**  
**OSSSC, OSSC, OPSC, POLICE, B.ED, JT, RHT, CT, OAVS, OSSTET, OTET, OSSSC (PEO, RI, ARI & Other) & Other**

**ENGLISH- ଓଡ଼ିଶାର**  
**ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ**  
**4,582- PYQ**  
**ଓଡ଼ିଆ ଓ ଇଂରାଜୀ ରେ**  
**EXPLANATION**  
**OSSSC, OSSC, OPSC, Police SI /Constable, PEO, RI, Battalion, Fireman, B.ED, JT, RHT, CT, OAVS, OSSTET, OTET & Other Exam**

**କୋମ୍ପ୍ୟୁଟର- ଓଡ଼ିଶାର**  
**ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ**  
**2,353- PYQ**  
**ଓଡ଼ିଆ ଓ ଇଂରାଜୀ ରେ**  
**EXPLANATION**  
**OSSSC, OSSC, OPSC, Police SI & Constable, Battalion, PEO, RI, AMIN, JT, RHT & Other Exams**

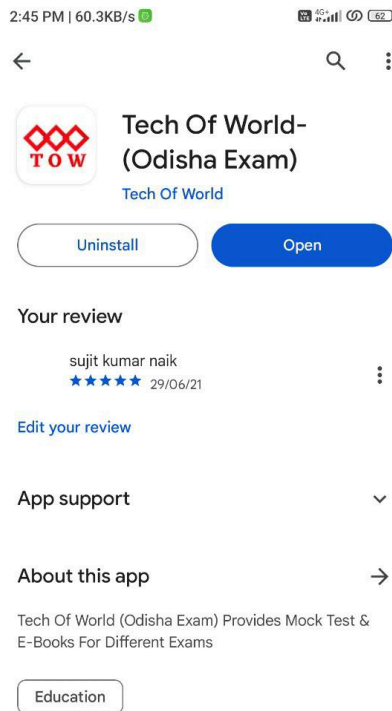
**MATH- ଓଡ଼ିଶାର**  
**ସମସ୍ତ ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ**  
**4,000- PYQ**  
**ଓଡ଼ିଆ ଓ ଇଂରାଜୀ ରେ**  
**E-BOOK- PDF**  
**OSSSC, OSSC, OPSC, Police SI /Constable, PEO, RI, Battalion, Fireman, B.ED, JT, RHT, CT, OAVS, OSSTET, OTET & Other**

**PEDAGOGY ଓଡ଼ିଶାର**  
**TEACHING APTITUDE**  
**ପୂର୍ବ ବର୍ଷ ପ୍ରଶ୍ନ**  
**1,900- PYQ**  
**ଓଡ଼ିଆ ଓ ଇଂରାଜୀ ରେ**  
**EXPLANATION**  
**B.ED, RHT, CT, JT, OAVS, OSSTET, OTET & Other**

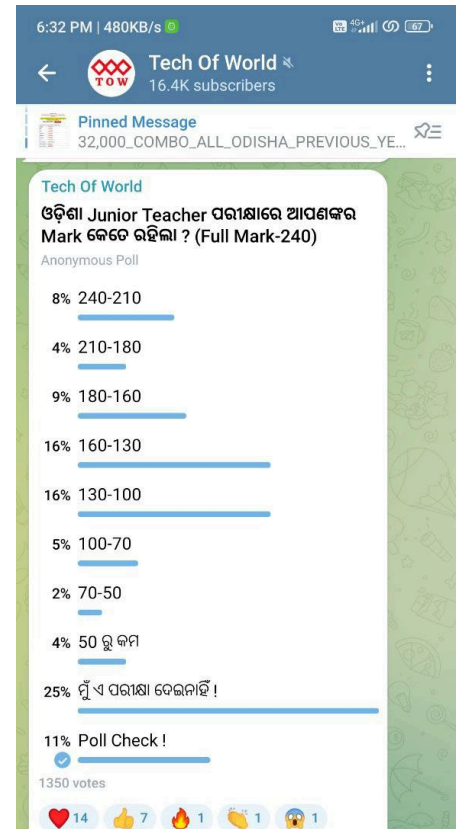
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INSPIRE AND EMPOWER

# Odisha Adarsha Vidyalaya Sangathan

Department of School & Mass Education, Govt. Of Odisha

Participant ID	Techofworld.In
Participant Name	
Test Center Name	GITA Autonomous College
Test Date	16/05/2023
Test Time	9:00 AM - 12:20 PM
Subject	PGT Chemistry

Section : Language Proficiency Test-General English

**Q.1** Select the most appropriate synonym of the underlined word.  
We regretfully remember the lost opportunities.

- Ans  1. ruefully  
 2. delightfully  
 3. unwillingly  
 4. brutally

Question ID : 630680222641  
 Option 1 ID : 630680864325  
 Option 2 ID : 630680864324  
 Option 3 ID : 630680864326  
 Option 4 ID : 630680864323  
 Status : Not Answered  
 Chosen Option : --

**Q.2** Identify the segment that contains a grammatical error. If there is no error, select 'No error'.  
Only you and me can be admitted on this ticket.

- Ans  1. Only you and me  
 2. on this ticket  
 3. No error  
 4. can be admitted

Question ID : 630680222654  
 Option 1 ID : 630680864375  
 Option 2 ID : 630680864377  
 Option 3 ID : 630680864378  
 Option 4 ID : 630680864376  
 Status : Not Answered  
 Chosen Option : --



Q.3 Select the most appropriate antonym of the underlined word.  
His churlish attitude towards the customers impacted his business.

Ans ✓ 1. refined

✗ 2. miserly

✗ 3. grumpy

✗ 4. lucid

Q.4 Select the sentence with all correctly spelt words.

Ans ✗ 1. Autopsy is a medicle examination done to ascertain the cause of death.

✗ 2. Atopsy is a medical examnation done to assertrain the cause of death.

✗ 3. Autopsy is a medical examnation done to ascertaine the cuase of death.

✓ 4. Autopsy is a medical examination done to ascertain the cause of death.

Q.5 Identify the sentence that uses the verb correctly.

Ans ✓ 1. When the alarm bell rang, I had been sleeping for over two hours.

✗ 2. When the alarm bell rang, I was sleeping for over two hours.

✗ 3. When the alarm bell rang, I had to sleep for over two hours.

✗ 4. When the alarm bell rang, I slept for over two hours.

Q.6 Identify the segment that contains a grammatical error. If there is no error, select 'No error'.  
It is a much different result from what I expected.

- Ans
- 1. different result from
  - 2. No error
  - 3. what I expected
  - 4. It is a much

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Choser

Q.7 Substitute the underlined segment with the correct idiom.  
Making peevish criticisms about minor matters will not lead us anywhere.

- Ans
- 1. Poisoning the ears
  - 2. Cutting the Gordian knot
  - 3. Wild goose chase
  - 4. Splitting hairs

Que  
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Opt  
Choser

Q.8 Identify the segment that contains a grammatical error. If there is no error, select 'No error'.  
Sudha is the more taller of the two sisters.

- Ans
- 1. the more taller
  - 2. No error
  - 3. of the two sisters
  - 4. Sudha is

Q.9 Select the most appropriate synonym of the underlined word.  
Such a program would involve huge expenses.

- Ans
- 1. invoke
  - 2. entail
  - 3. subscribe
  - 4. exclude

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Optio  
Optio  
Optio  
S  
Chosen C

Q.10 Identify the segment that contains a grammatical error. If there is no error, select 'No error'.  
May I accompany with you to the railway station?

- Ans
- 1. No error
  - 2. accompany with you
  - 3. to the railway station
  - 4. May I

Quest  
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Optio  
Optio  
Optio  
S  
Chosen C

Q.11 Select the sentence with all correctly spelt words.

- Ans
- 1. Make in India programme is designed to facilitate investment, foster inovation, anhanche skill development and protect intelectual property.
  - 2. Make in India program is dessigned to facilitate investment, foster inovation, enhance skill development and protect intelectual property.
  - 3. Make in India programe is designd to facillitate investment, foster inovation, enhance skill developement and protect intelectual property.
  - 4. Make in India programme is designed to facilitate investment, foster innovation, enhance skill development and protect intellectual property.

**Q.12** Select the option that correctly presents the given sentence in active voice.  
No press correspondents are entertained by him.

- Ans
- 1. He has not entertained any press correspondents.
  - 2. He did not entertain any press correspondents.
  - 3. He is not entertaining any press correspondents.
  - 4. He does not entertain any press correspondents.

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Choser

**Q.13** Select the option that correctly presents the given sentence in direct speech.  
Mr Sharma asked his son Bharat if he had finished reading his lesson.

- Ans
- 1. "Have you finished reading your lesson, Bharat?" Mr Sharma said to his son.
  - 2. Mr Sharma said to his son, "Bharat, did you finished reading your lesson?"
  - 3. Mr Sharma said to his son, "Bharat, you have finished reading your lesson?"
  - 4. "Had you finish reading your lesson?" Mr Sharma said to his son, Bharat.

Que

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Opt

Opt

Choser

**Q.14** Select the most appropriate option to fill in the blanks.  
Many factors are responsible for \_\_\_\_\_ the problem of unemployment, the most \_\_\_\_\_ among them being overpopulation. Whatever is \_\_\_\_\_ in terms of additional jobs is set to \_\_\_\_\_ by fresh hands seeking employment.

- Ans
- 1. emphasizing, renowned, managed, worthless
  - 2. redeeming, eminent, resolved, nothing
  - 3. accentuating, conspicuous, achieved, naught
  - 4. escalating, remarkable, enacted, useless

Q.15 Identify the sentence that uses the adverb correctly.

- Ans
- 1. Beautifully she in the college auditorium sang last evening.
  - 2. She sang in the college auditorium last evening beautifully.
  - 3. She beautifully in the college auditorium sang last evening.
  - 4. She sang beautifully in the college auditorium last evening.

Que  
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Chosen

Q.16 Substitute the underlined segment with the correct idiom.

Making new national highways was a well-meaning project but unfortunately it produced no concrete result.

- Ans
- 1. pulled the strings
  - 2. ended in smoke
  - 3. hit below the belt
  - 4. made a clean sweep

Que  
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Opt  
Opt  
Opt  
Chosen

Q.17 Identify the sentence that uses the preposition correctly.

- Ans
- 1. Before you decide to embark on a new venture, carefully weigh its pros and cons.
  - 2. Before you decide to embark in a new venture, carefully weigh its pros and cons.
  - 3. Before you decide to embark at a new venture, carefully weigh its pros and cons.
  - 4. Before you decide to embark with a new venture, carefully weigh its pros and cons.

Q.18 Select the most appropriate antonym of the underlined word.  
The soldiers were exulting over their victory but their enthusiasm was short- lived.

- Ans  1. depressed  
 2. ecstatic  
 3. jubilant  
 4. reveling

Que  
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 Opt  
 Opt  
 Opt  
 Choser

Q.19 Select the option that correctly presents the given sentence in passive voice.  
Why can't you postpone the meeting till next week?

- Ans  1. Why can't the meeting be postponed till next week?  
 2. Why don't the meeting be postponed by you till next week?  
 3. Why the meeting can't postpone till next week by you?  
 4. Why isn't the meeting postponed till next week?

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 Choser

Q.20 Select the most appropriate option to fill in the blanks.  
With the exception of identical twins, each living organism has a \_\_\_\_ genetic make up. This genetic make up \_\_\_\_ all the characteristics of an \_\_\_\_.

- Ans  1. classic, decides, being  
 2. unique, determines, individual  
 3. strange, concludes, organism  
 4. distinct, prepares, creature

Que  
 Opt  
 Opt  
 Opt  
 Opt  
 Choser

Section : Language Proficiency Test-Odia



Q.1 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ବନାନଗତ ଶୁଦ୍ଧ ଶବ୍ଦ ?

- Ans  1. ପୂଜାସ୍ତବ  
 2. ପୂଜ୍ୟାସ୍ତବ  
 3. ପୂଜ୍ୟାସ୍ତବ  
 4. ପୂଜ୍ୟସ୍ତବ

Q.2 'ଅଶ୍ୱିକ୍ଷୁରି ତଶ୍ୱି କାଟିବା' ରୂପର ଉପଯୁକ୍ତ ଅର୍ଥ ବାଛି ।

- Ans  1. ନିଜେ ଅନୁଭବ କରିବା  
 2. ବିପଦରେ ପକାଇବା  
 3. ବୃଥା ପରିଶ୍ରମ  
 4. ନିଜର ଲୋକ କ୍ଷତି କରିବା

Q.3 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ବନାନଗତ ଶୁଦ୍ଧ ଶବ୍ଦ ?

- Ans  1. ଦୀବାରାତ୍ର  
 2. ଦିବାରାତ୍ରୀ  
 3. ଦିବାରାତ୍ର  
 4. ଦିବାରାତ୍ରି

Q.4 'ଇହ' ଶବ୍ଦର ବିପରୀତ ଶବ୍ଦ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ?

- Ans
- 1. ପରଖ
  - 2. ପର
  - 3. ଈଶ
  - 4. ଇହା

Q.5 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ବନାନଗତ ଶୁଦ୍ଧ ଶବ୍ଦ ?

- Ans
- 1. ଉତ୍ସର୍ଗୀକୃତ
  - 2. ଉଚ୍ଛର୍ଷିକୃତ
  - 3. ଉତ୍ସର୍ଗୀକୃତ
  - 4. ଉତ୍ସର୍ଗୀକୃତ

Q.6 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ବନାନଗତ ଶୁଦ୍ଧ ଶବ୍ଦ ?

- Ans
- 1. ଚନ୍ଦ୍ରବଦନା
  - 2. ଚନ୍ଦ୍ରବଦନି
  - 3. ଚନ୍ଦ୍ରବଦନୀ
  - 4. ଚନ୍ଦ୍ରବଦନୀ

Q.7 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି 'ଅନୁଗ୍ରହ' ଶବ୍ଦର ବିପରୀତ ଶବ୍ଦ ?

- Ans  1. ନିଗ୍ରହ  
 2. ନିଗ୍ରହାନୁଗ୍ରହ  
 3. ଆଗ୍ରହ  
 4. ଅନାଗ୍ରହ

Q.8 'ଅଧମଣ୍ଡି' ଶବ୍ଦର ବିପରୀତ ଶବ୍ଦ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ?

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

Q.9 'ଆଖି ବୁଜି ଦୁଧ ପିଇବା' ରୁଚିର ଉପଯୁକ୍ତ ଅର୍ଥ ବାଛି ।

- Ans  1. ନିଜର ସୁରକ୍ଷା ଚିନ୍ତା କରିବା  
 2. ଆଖି ବୁଜି ରଖି କାର୍ଯ୍ୟ କରିବା  
 3. ଦୃଷ୍ଟିରେ ରଖିବା  
 4. ଠକିବା

Q.10 'ଆପଣା ସୁନା ଭେଣ୍ଟି' ରୁଦ୍ଧିର ଉପଯୁକ୍ତ ଅର୍ଥ ବାଛି ।

- Ans
- 1. ନିଜ ଲୋକ ଶତ୍ରୁ ହେବା
  - 2. ସବୁ ଅନର୍ଥର ମୂଳ
  - 3. ନିଜ ଲୋକର ଦୋଷକୁ ନଦେଖିବା
  - 4. ନିଜ ଲୋକ ଦ୍ଵାରା ଅପଦସ୍ତ ହେବା

Q.11 'ନଶ୍ଵର' ଶବ୍ଦର ବିପରୀତ ଶବ୍ଦ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ?

- Ans
- 1. ଅବିନଶ୍ଵର
  - 2. ନିଶ୍ଵର
  - 3. ଇଶ୍ଵର
  - 4. ନିଶ୍ଵ

Q.12 'ଉର୍ଦ୍ଧର' ଶବ୍ଦର ବିପରୀତ ଶବ୍ଦ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ?

- Ans
- 1. ଉପର
  - 2. ଅପୂର୍ବ
  - 3. ଅନୁର୍ଦ୍ଧର
  - 4. ଉର୍ଦ୍ଧରା

Q.13 'ଅନ୍ଧ ବୁଝାମଣା' ରୂପର ଉପଯୁକ୍ତ ଅର୍ଥ ବାଛି ।

- Ans
- 1. ଓଲଟା ବୁଝିବା
  - 2. ଦୃଷ୍ଟିଦେବା
  - 3. ଦୃଷ୍ଟିରେ ରଖିବା
  - 4. ଅବାଟରେ ଚାଲିବା

Q.14 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି 'କ୍ଷମ' ଶବ୍ଦର ବିପରୀତ ଶବ୍ଦ ?

- Ans
- 1. ସକ୍ଷମ
  - 2. କ୍ଷମା
  - 3. ଅକ୍ଷମ
  - 4. ଅକ୍ଷମା

Q.15 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ବନାନଗତ ଶୁଦ୍ଧ ଶବ୍ଦ ?

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

Q.16 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି 'ଉଷା' ଶବ୍ଦର ବିପରୀତ ଶବ୍ଦ ?

- Ans  1. ପ୍ରଦୋଷ  
 2. ପୂର୍ବାହ୍ନ  
 3. ପ୍ରତ୍ୟୁଷ  
 4. ପ୍ରଭାତ

Q.17 'ନାକ ଛିଞ୍ଚାତିବା' ରୁଦ୍ଧର ଉପଯୁକ୍ତ ଅର୍ଥ ବାଛି ।

- Ans  1. ଦମ୍ଭ ଧରିବା  
 2. ପ୍ରତିଶୋଧ ନେବା  
 3. ଘୃଣା କରିବା  
 4. ଦୋଷ ଲୁଚାଇବା

Q.18 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି 'ଆବୃତ୍ତ' ଶବ୍ଦର ବିପରୀତ ଶବ୍ଦ ?

- Ans  1. ଅନାବୃତ୍ତ  
 2. ଅନାବୃତ  
 3. ଅନାବୃତ୍ତି  
 4. ଅନାବୃତି

Q.19 'ଅରଣ୍ୟ ରୋଦନ' ରୁଦ୍ଧିର ଉପଯୁକ୍ତ ଅର୍ଥ ବାଛି ।

- Ans
- 1. ଅନ୍ୟାୟ ବିଚାର
  - 2. ଅସମ୍ଭବ
  - 3. ବୃଥା ଚେଷ୍ଟା
  - 4. ଘୋର ଶତ୍ରୁତା

Que  
Opt  
Opt  
Opt  
Opt

Choser

Q.20 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ବନାନଗତ ଶୁଦ୍ଧ ଶବ୍ଦ ?

- Ans
- 1. ବିହଜିନି
  - 2. ବିହଜୀ
  - 3. ବିହଜିନୀ
  - 4. ବିହଜିକା

Que  
Opt  
Opt  
Opt  
Opt

Choser

Section : Current Affairs

Q.1 During the Year 2022-2023, Tele-Law was expanded to cover 1 lakh Gram Panchayats across \_\_\_\_\_ districts in 36 States and UTs.

- Ans
- 1. 468
  - 2. 652
  - 3. 755
  - 4. 518

- Q.2 Which of the following are CORRECT with respect to 'Rural Backyard Piggery Scheme'?
1. It was launched in September 2022 in Tripura under National Livestock Mission.
  2. Under Rural Backyard Piggery Scheme - phase 1, the government has earmarked Rs 15.18 crore under which four high-yielding improved varieties will be distributed to 6000 families of farmers.
  3. Under this mission, zero interest loan is provided for setting up fattening and pig breeding.

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

Ques  
Opti  
Opti  
Opti  
Opti  
Chosen

- Q.3 Haryana's 2023-24 Budget, presented by Chief Minister Manohar Lal Khattar, saw an increase of \_\_\_\_\_ per cent from the revised estimates of Rs 1,64,808 crore from the previous budget.

- Ans
- 1. 11.6
  - 2. 10.1
  - 3. 6.9
  - 4. 8.7

Ques  
Opti  
Opti  
Opti  
Opti  
Chosen

- Q.4 Arittapatti, which was notified in November 2022 under the Biological Diversity Act, 2002 as the first biodiversity heritage site of \_\_\_\_\_ has around 250 species of birds, including three important raptors - the laggar falcon, the shaheen falcon, and Bonelli's eagle.

- Ans
- 1. Tamil Nadu
  - 2. Goa
  - 3. Odisha
  - 4. Telangana



Q.5 Which of these countries invaded Ukraine on February 24, 2022 and the violence has resulted in destruction, casualties and hundreds of thousands of displaced people?

- Ans
- 1. Russia
  - 2. Yemen
  - 3. Ethiopia
  - 4. Syria

Ques  
Optic  
Optic  
Optic  
Optic  
Chosen

Q.6 In September 2022, which of the following state government gave its nod to a proposal for granting 77% reservation in State government jobs for the members of the SC, ST, backward classes, OBC and economically weaker sections?

- Ans
- 1. Odisha
  - 2. Jharkhand
  - 3. Bihar
  - 4. Chhattisgarh

Ques  
Optic  
Optic  
Optic  
Optic  
Chosen

Q.7 Identify the CORRECT match of sportspersons with the sports for which they got the Arjuna Awards for outstanding performance in Sports and Games 2022.

1. Shri Vikas Thakur-Shooting
2. Shri Omprakash Mitharval - Weightlifting
3. Ms Sarita-Wrestling
4. Shri Parveen- Wushu

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

**Q.8 Which of the following signed a Memorandum of Understanding (MoU) in 2022 to enhance teaching, research activities in the field of physical education and sports science through constructive collaboration?**

- Ans**
- 1. Maharaja Bhupinder Singh Punjab Sports University and the Guru Govind Singh Sports College, Lucknow
  - 2. Swarnim Gujarat Sports University, Gandhinagar and Netaji Subhas National Institute of Sport, Patiala
  - 3. Lakshmibai National College of Physical Education (LNCPE), Thiruvananthapuram and the Swarnim Gujarat Sports University, Gandhinagar
  - 4. Lakshmibai National College of Physical Education (LNCPE), Thiruvananthapuram and the Guru Govind Singh Sports College, Lucknow

Question  
Option  
Option  
Option  
Option  
S  
Chosen O

**Q.9 Which state launched 'Naari Ko Naman' scheme in October 2022 to provide 50% concession on fares in public transport buses to women commuters within the state boundaries?**

- Ans**
- 1. Arunachal Pradesh
  - 2. Andhra Pradesh
  - 3. Himachal Pradesh
  - 4. Madhya Pradesh

Question  
Option  
Option  
Option  
Option  
S  
Chosen O

**Q.10 As per the 2022, year- end report of Department of Justice, Ministry of Law & Justice, what is India's rank in the Rule of Law Index (ROLI) assessed by the World Justice Project (WJP)?**

- Ans**
- 1. 51 out of 120 countries
  - 2. 90 out of 170 countries
  - 3. 78 out of 194 countries
  - 4. 77 out of 140 countries

Q.11 During which of these months, the 5th Rashtriya Poshan Maah was celebrated with Gram Panchayats as the focal point of all the activities?

- Ans  1. October 2022  
 2. September 2022  
 3. December 2022  
 4. August 2022

Ques  
Opti  
Opti  
Opti  
Opti  
Chosen

Q.12 National Award for Outstanding Efforts in Science & Technology Communication through Print Media including Books and Magazines awarded every year includes cash amount of \_\_\_\_\_.

- Ans  1. Rs 2,00,000  
 2. Rs 5,00,000  
 3. Rs 10,00,000  
 4. Rs 1,00,000

Ques  
Opti  
Opti  
Opti  
Opti  
Chosen

Q.13 Which of the following is/are CORRECT with respect to 'Matdata Junction'?

1. Radio series launched by Election Commission of India.
2. Launched in collaboration with All India Radio for voter awareness.
3. First Episode of Matdata Junction was aired on October 7, 2022.
4. Programs were broadcasted in 23 languages across 230 AIR channels.

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

Q.14 The Uttar Pradesh government has launched a statewide \_\_\_\_\_ 'UP Global City' campaign to make urban bodies of the state on par with global standards.

- Ans
- 1. 90-day
  - 2. 75-day
  - 3. 99-day
  - 4. 100-day

Question II  
Option 1 II  
Option 2 II  
Option 3 II  
Option 4 II  
Statu  
Chosen Optio

Q.15 In April 2022, which of the following announced its collaboration with the Telangana government and signed a memorandum of understanding (MoU) to support and accelerate the state's vision of leveraging technology for sustainable economic development and inclusive social development?

- Ans
- 1. Reliance
  - 2. Microsoft
  - 3. Google
  - 4. Meta

Question II  
Option 1 II  
Option 2 II  
Option 3 II  
Option 4 II  
Statu  
Chosen Optio

Q.16 Which of the following won the silver award for 'Innovative Environmental Program' presented at the Global Communication Conclave organised by Public Relations Council of India (PRCI) in Kolkata on 12<sup>th</sup> November, 2022?

- Ans
- 1. Hindalco Industries
  - 2. National Mineral Development Corporation (NMDC)
  - 3. Hindustan Zinc
  - 4. National Aluminium Company (NALCO)

Q.17 Which edition of the World Anti Doping Agency (WADA) Athlete Biological Passport (ABP) Symposium was hosted by National Anti Doping Agency (NADA) & National Dope Testing Laboratory (NDTL) India from October 12 to 14, 2022 at The Ashok, New Delhi, India?

- Ans
- 1. 2<sup>nd</sup>
  - 2. 3<sup>rd</sup>
  - 3. 4<sup>th</sup>
  - 4. 1<sup>st</sup>

Que  
Opt  
Opt  
Opt  
Opt  
Choser

Q.18 In April 2022, Dr. S Raju took over as the Director General of \_\_\_\_ by succeeding R. S. Garkhal.

- Ans
- 1. Botanical Survey of India
  - 2. Zoological Survey of India
  - 3. Geological Survey of India
  - 4. State Biodiversity Board

Que  
Opt  
Opt  
Opt  
Opt  
Choser

Q.19 Who took over as the 22nd Lieutenant Governor of Delhi on 26th May 2022?

- Ans
- 1. Najeeb Jung
  - 2. Vinai Kumar Saxena
  - 3. Anil Baijal
  - 4. Tejendra Khanna

Q.20 Which of the following became the first city in July 2022 to publish Google's Environmental Insights Explorer (EIE) data which helps cities measure the carbon emission sources, conduct analysis and identify strategies to reduce emissions that help counter air pollution?

- Ans  1. Aurangabad  
 2. Hyderabad  
 3. New Delhi  
 4. Lucknow

Ques  
Opti  
Opti  
Opti  
Opti  
Chosen

Q.21 In 2021, which of these was the most polluted with respect to PM2.5 levels while it ranked third in terms of PM10 levels?

- Ans  1. Delhi  
 2. Ghaziabad  
 3. Faridabad  
 4. Firozabad

Ques  
Opti  
Opti  
Opti  
Opti  
Chosen

Q.22 Shri Sharath Kamal Achanta who received the Major Dhyan Chand Khel Ratna Award 2022, is associated with \_\_\_\_\_.

- Ans  1. Lawn Bowl  
 2. Athletics  
 3. Table Tennis  
 4. Boxing

Q.23 In April 2022, which of the following announced US\$2.2 million in climate action grants for 22 local innovators across 19 countries in the Gobeshona Global Conference?

- Ans  1. United Nations Development Programme (UNDP) and partners of the Adaptation Fund Climate Innovation Accelerator (AFCIA)
2. United Nations International Children's Emergency Fund (UNICEF) and partners of the Adaptation Fund Climate Innovation Accelerator (AFCIA)
3. World Health Organization (WHO) and partners of the Adaptation Fund Climate Innovation Accelerator (AFCIA)
4. International Monetary Fund (IMF) and partners of the Adaptation Fund Climate Innovation Accelerator (AFCIA)

Qu  
Op  
Op  
Op  
Op  
Chose

Q.24 Which of these UT fared well in providing affordable and clean energy with a score of 79 in the SDG composite index India 2021?

- Ans  1. Daman and Diu
2. Puducherry
3. Chandigarh
4. Lakshadweep

Qu  
Op  
Op  
Op  
Op  
Chose

Q.25 'I Am Shakti Udan' scheme of Rajasthan Govt. provides:

- Ans  1. Free books, notebooks and uniform to poor girls
2. Free sanitary napkins to women and girls
3. Free meals to drop out girls for continuing education
4. Free bicycle to girls for attending school

Q.26 Murali Sreeshankar became the first Indian male to win a silver at the Commonwealth Games 2022 in \_\_\_\_.

- Ans
- 1. High jump
  - 2. 3000m steeplechase
  - 3. long jump
  - 4. Triple jump

Q.27 Which of these launched AquaMAP Water Management and Policy Centre in March 2022?

- Ans
- 1. IIT Ropar
  - 2. IIT Goa
  - 3. IIT Bhubaneswar
  - 4. IIT Madras

Q.28 In March 2023, which of these companies changed its logo for first time in 60 years to signal strategy shift?

- Ans
- 1. Ericsson
  - 2. BlackBerry Pearl
  - 3. Samsung
  - 4. Nokia



Q.29 In December 2021, which of the following announced the launch of 'green fixed deposits', whereby the deposit proceeds will be used to finance projects and firms supporting the United Nations Sustainable Development Goals (SDGs)?

- Ans
- 1. Karnataka Bank
  - 2. ICICI Bank
  - 3. Equitas Small Finance Bank
  - 4. IndusInd Bank

Question I  
Option 1 I  
Option 2 I  
Option 3 I  
Option 4 I  
Statu  
Chosen Optio

Q.30 Which bank launched Micro ATMs across India in October 2021?

- Ans
- 1. Axis Bank
  - 2. IndusInd Bank
  - 3. HDFC Bank Ltd.
  - 4. Kotak Mahindra Bank

Question I  
Option 1 I  
Option 2 I  
Option 3 I  
Option 4 I  
Statu  
Chosen Optio

Section : Reasoning

Q.1 The question below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

Question: In which year was Rashid born?

Statements:

- I. Rashid is elder than Menka.
- II. Menka is younger than Divya who born on 1993.

- Ans
- 1. If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
  - 2. If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question
  - 3. If the data either in statement I alone or in statement II alone are sufficient to answer the question
  - 4. If the data given in both statements I and II together are not sufficient to answer the question

Q.2 Which of the following interchange in signs would make the equation correct?  
 $670 - 37 + 247 \div 13 \times 19 = 346$

- Ans
- 1.  $\div$  and  $+$
  - 2.  $\div$  and  $\times$
  - 3.  $\times$  and  $+$
  - 4.  $+$  and  $-$

Que  
Opt  
Opt  
Opt  
Opt

Choser

Q.3 Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance from commonly known facts, decide which of the conclusions logically follow(s) from the given statements.

Statements:

- A. All boats are buses.
- B. All buses are trains.
- C. All trains are engines.

Conclusions:

- I. All boats are trains.
- II. Some trains are buses.
- III. No buses are engines.

- Ans
- 1. Neither conclusion I nor II nor III follow
  - 2. Only conclusions I and II follow
  - 3. All the conclusions I, II and III follow
  - 4. Only conclusions I and III follow

Q.4 Direction : Read the following information carefully

- Urvasi is taller than Mayank but younger than two of all.
- Prajjwal is older than Sachin and Rohit but shortest among all.
- Urvasi is younger than Mayank.
- Prajjwal is older than Rahul but younger than Kisan.
- Mayank is not the oldest but tallest among all except Urvasi.
- Rohit is taller than Kisan but shorter than Sachin.
- Sachin is shorter than Rahul.
- Rohit is older than Sachin who is older than Rahul.

Which one of the following person represents that Sachin is older and shorter than him?

- Ans
- ✓ 1. Rahul
  - ✗ 2. Rohit
  - ✗ 3. Kisan
  - ✗ 4. Prajjwal

Ques  
Opti  
Opti  
Opti  
Opti  
Chosen

Q.5 In a certain code language CODING is coded as RMTXLW. How REMOVE is coded in same language?

- Ans
- ✓ 1. LEVIVN
  - ✗ 2. LEIVVN
  - ✗ 3. LEVINV
  - ✗ 4. LVEIVN

**Q.6** In a nine floor building numbered from 1 to 9 started with ground floor where 9 persons – Pankaj, Quadir, Rashmi, Sachin, Taniya, Urvashi, Varisha, Wafa and Xan each are living on different floor but not necessarily in the same order. Following information is known as

- There are only two persons between Rashmi's floor and Quadir's floor.
- Rashmi and Wafa lives on an even-numbered floor.
- The person who lives immediately above Quadir lives three floors above Urvashi.
- Only one person lives between Wafa's and Sachin's floor.
- The number of floors above Sachin is the same as the number of floors below Varisha.
- At least one person lives between Quadir and Wafa floor.
- The number of floors between Varisha and Urvashi is the same as the number of floors between Taniya and Sachin.
- Pankaj lives below Xan but above Taniya

Which of the following statement is true?

- Ans**
- 1. Taniya lives on the prime numbered floor
  - 2. Sachin lives on the eighth floor
  - 3. Quadir lives immediately above Sachin
  - 4. One person lives between Pankaj and Rashmi

Ques  
Opti  
Opti  
Opti  
Opti

Chosen

**Q.7** Select the option that will replace the question mark (?) in the following series.  
WIN, YKP, ZLQ, BNS, ?

- Ans**
- 1. COU
  - 2. CPT
  - 3. DPU
  - 4. COT

Q.8 The question given below consists of a statement, followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument.

Statement :

Should the tuition fees in the entire post- graduate be reduced considerably?

Argument :

I. Yes, this will encourage meritorious poor student to take admission in post graduate course.

II. No, this will reduce fee collection form post graduate courses hence may reduce the seriousness of college management for post graduate courses.

- Ans
- 1. If neither I nor II is strong
  - 2. If either I or II is strong
  - 3. If only argument II is strong
  - 4. If only argument I is strong

Questi  
Optio  
Optio  
Optio  
Optio  
S  
Chosen O

Q.9 Direction : Read the following information carefully

- Jaykant is younger than Rahul who is heavier than Neelam.
- Sachin is younger than Vivek and lightest among all except one.
- Prakash is the elder brother of Neelam who is heavier than 4 among given group.
- Jaykant is older than Vivek and Sachin is older than Prakash.
- Suresh is lighter than Prakash but heavier than Sachin.
- Prakash is lighter than Rahul who is not heaviest.
- Jaykant is heavier than Vivek.
- Suresh is the youngest.

Who is the heaviest in the group?

- Ans
- 1. Rahul
  - 2. Jaykant
  - 3. Prakash
  - 4. Neelam

Q.10 Select the option that is related to the third letter cluster in the same way as the second letter cluster is related to the first letter cluster in the pair.

SUCCESS : WXEDGVW :: TALLEST : ?

- Ans
- 1. XDNMFUX
  - 2. XDNMGUX
  - 3. XDNMFWX
  - 4. XDNMGVX

Qu  
Op  
Op  
Op  
Op  
Chose

Q.11 Below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement:

An Expert on share market said to his friend; consult me before making investment on any start-up.

Assumption:

I. Friend may take a wrong decision if he doesn't consult him.

II. It is important to take a right investment decision.

- Ans
- 1. If both I and II are implicit.
  - 2. If either I or II is implicit
  - 3. If only assumption I is implicit
  - 4. If only assumption II is implicit

Qu  
Op  
Op  
Op  
Op  
Chose

Q.12 Select the option that is related to the given pair in the same way as the second word is related to the first word in the pair.

VICTORIA : KXVETQCK

- Ans
- 1. TAXPAYER : CVRZACTG
  - 2. FRANKLIN : PKNMPCTH
  - 3. INTRANET : KPVTCPGV
  - 4. GRAPHICS : RCTIUEKJ

Q.13 In which of the following figure the given figure is embedded?



Ans



Quest  
Optio  
Optio  
Optio  
Optio  
S  
Chosen C

Q.14 Select the correct combination of mathematical signs to replace '\*' signs and to balance the following equation.

$$23 * 323 * 17 * 35 * 67 * 405$$

Ans ✗ 1. ÷, +, =, ×, -

✗ 2. +, ÷, =, ×, -

✗ 3. -, ÷, =, +, ×

✓ 4. ×, ÷, +, -, =

Q.15 Select the option that will replace the question mark (?) in the following series.  
67, 188, 357, 582, ?

- Ans
- 1. 789
  - 2. 871
  - 3. 798
  - 4. 867

Q.16 What approximate value should come in place of the question mark (?) in the following equation?

$$89.89 \div 14.76 \times 19.37 - 37.69 + 246.89 = ?$$

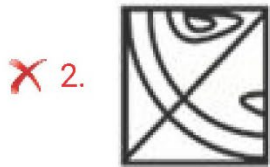
- Ans
- 1. 323
  - 2. 333
  - 3. 234
  - 4. 456



Q.17 What will be the water image of the following figure?

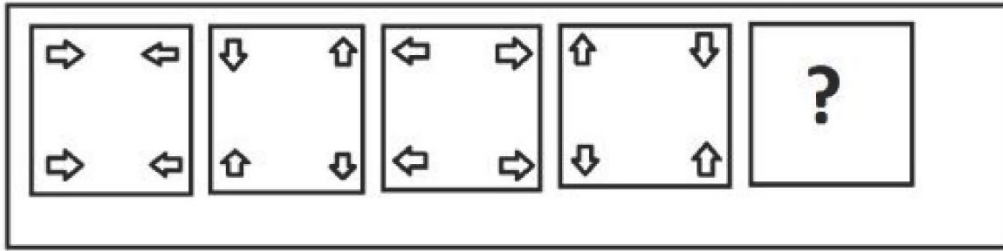


Ans

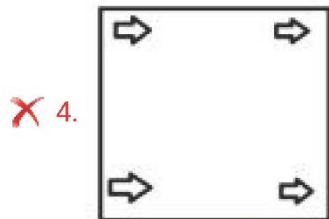
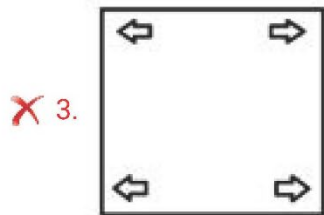
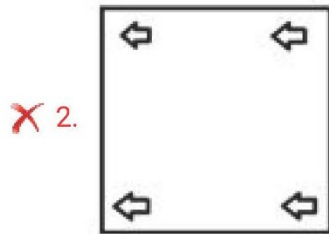
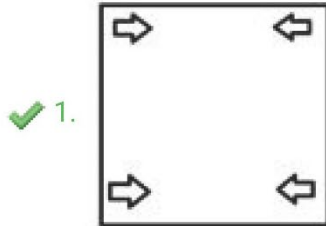


CTWC

Q.18 Select the option that will replace the question mark (?) in the following series.



Ans



**Q.19** Seven professionals- Laxman, Manoj, Noman, Osama, Palak, Sanjay, and Rahul of different professions- Doctor, Professor, Lawyer, Engineer, Player, Architect and Manager goes for Lunch in Taj Hotel on different days of the week starting from Sunday to Saturday but not necessarily in the same order.

- Laxman who is manager goes three days before the one who goes for Lunch two days after Sanjay.
- Laxman goes on neither Monday nor Wednesday.
- Rahul goes two days before the one who is Lawyer.
- Rahul goes on either Wednesday or Thursday.
- Manoj goes three days before the one who is Architect.
- Neither Rahul nor Manoj is Professor and Architect.
- The one who is Professor is goes immediately after the one whose profession is Doctor.
- The one who is Engineer is goes on one of the days after the one who is professor.
- Palak is Engineer.
- Osama goes before Noman.

On which among the following day does Manager goes for Lunch?

- Ans**
- 1. Monday
  - 2. Tuesday
  - 3. Wednesday
  - 4. Thursday

Question

Option

Option

Option

Option

Statement

Chosen Option

**Q.20** The question below is given a statement followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows beyond a reasonable doubt from the information given in the statement.

**Statement :**

No one is perfect to do everything in a team

**Conclusion:**

I. Team efforts are important for success.

II. Everyone should respect others ability in a team

- Ans**
- 1. If neither I nor II follows and
  - 2. If only conclusion I follows
  - 3. If only conclusion II follows
  - 4. If both I and II follow.

**Q.21** In a seminar hall 104 persons are sitting in front row facing North, Sanjay position is 25th from the left end and Vijay is 35th from the right end. Find the total number of persons between Sanjay and Vijay.

**Ans** ✓ 1. 44

✗ 2. 43

✗ 3. 45

✗ 4. 46

Question  
Option  
Option  
Option  
Option  
S  
Chosen O

**Q.22** In a function, certain number of professionals including Gopi, Fazal, Bipin, Easha, Deepak, Anand and Chaman who are in professions of Doctor, Engineer, Architect, Professor, Pilot, Lawyer and Judge but not necessarily in same order are sitting in front row facing South as follows

- Exactly three persons are sitting between Professor and Easha who is third to the left of Bipin.
- Deepak who is a professor is sitting between Architect and Chaman.
- Exactly three persons are sitting to the left of Chaman who is a Lawyer.
- Engineer is sitting second to the left of Fazal.
- Bipin is Engineer and Fazal is Architect.
- Only six persons are sitting between Lawyer and Anand who is a Judge.
- There are only two persons sitting between Fazal and Gopi.
- Gopi who is not a pilot is sitting second from the extreme end.

Who among the following sits sixth to the right of Anand?

**Ans** ✗ 1. Engineer

✓ 2. Pilot

✗ 3. Professor

✗ 4. Lawyer

**Q.23** The question below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.  
**Question:** What will be the code of DAWN in same language?

**Statements:**

- I. In certain code language DUSK is coded as WFHP.
- II. In certain code language BOAT is coded as YLZG.

- Ans**
- 1. If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question
  - 2. If the data either in statement I alone or in statement II alone are sufficient to answer the question
  - 3. If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question
  - 4. If the data in both statements I and II together are necessary to answer the question.

Question

Option

Option

Option

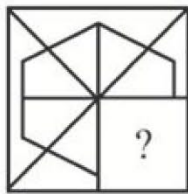
Option

Option

St

Chosen Op

**Q.24** Which of the following figure will complete the pattern? (Rotation not allowed)



**Ans**

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

Q.25 In a certain code language PASSING is coded as TMRHHZK. How TUESDAY is coded in same language?

- Ans  1. BZWHVFG  
 2. BZHWWFG  
 3. BZWHVGF  
 4. BZVHWFG

Quest  
 Optio  
 Optio  
 Optio  
 Optio  
 S  
 Chosen C

Q.26 Six sports person- Raman, Mohan, Nahid, Rahul, Pawan, and Sachin of different sports - Baseball, Cricket, Football, Chess, Carom, and Volley are living in six storey building numbered from 1 to 6 from bottom to top but not necessarily in the same order.

- Nahid who is player of cricket living two floors above the one who is player of Chess.
- Chess player does not live on an even number floor.
- Sachin lives two floors above the one who lives three floors below Mohan.
- Carom player is living two floors below Mohan.
- Raman lives on adjacent floor of Nahid.
- Neither Mohan nor Sachin is the player of Football.
- Football player is living above chess board player but not lives on the topmost floor.
- Pawan is neither Carom nor Football player.
- The number of people who live between Rahul and Baseball player is the same as between Raman and Rahul.

On which of the following floor does Sachin live?

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

Q.27 What will be the mirror image of the following figure?



Ans

X 1.



✓ 2.



X 3.

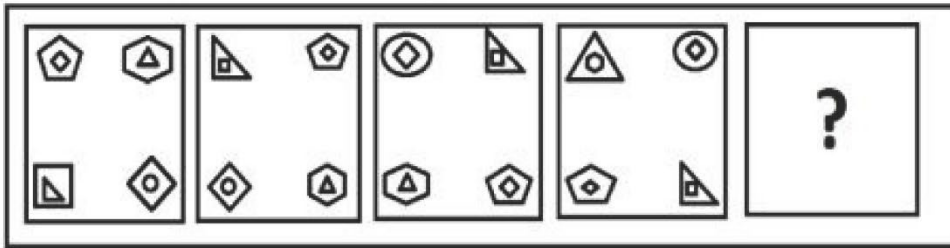


X 4.



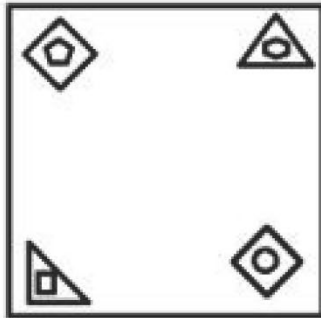
Of World

Q.28 Select the option that will replace the question mark (?) in the following series.

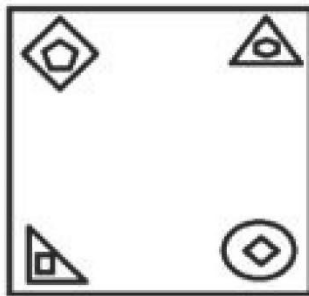


Ans

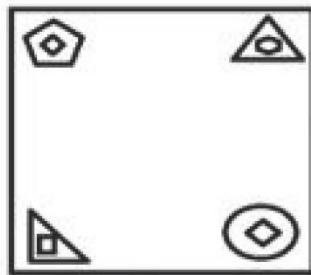
X 1.



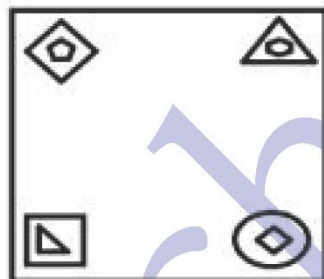
✓ 2.



X 3.



X 4.





**Q.29** Eight Football players A, B, C, D, E, F, G, H of different countries India, Australia, South Africa, New Zealand, Pakistan, Sri Lanka, England and Zimbabwe are sitting around a circle facing towards centre but not necessarily in same order as follows

- There is exactly three player is sitting between H and player from Zimbabwe.
- A who is an Indian player is sitting third to the left of Zimbabwe player.
- Indian player is sitting between England and Australian Player.
- B who is a Pakistan player is sitting opposite to C and immediate left of H.
- F is a Zimbabwe player is sitting between South Africa and New Zealand player.
- New Zealand player never sits opposite to Pakistan Player.
- G is an England Player and Australian Player never sits as immediate neighbour of South African Player.
- E is a New Zealand Player.

Sri Lankan player is sitting between?

- Ans**
- 1. Player H and player from Pakistan
  - 2. Player D and player from New Zealand
  - 3. Player E and player from Australia
  - 4. Player B and player from New Zealand

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Chose

**Q.30** Select the option that will replace the question mark (?) in the following series.  
LOSE, MQVI, NSYM, ?, PWEU

- Ans**
- 1. OUZQ
  - 2. OUCQ
  - 3. OUBQ
  - 4. OUAQ

Qu  
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Of

Chose

Section : Subject Content & Methodology

Q.1 Electron-dot formula for chemical compounds were developed by G. N. Lewis in which of the following year?

- Ans
- 1. 1925
  - 2. 1932
  - 3. 1916
  - 4. 1912

Ques  
Opti  
Opti  
Opti  
Opti  
Chosen

Q.2 The incorrect statement about the recommendations of the Commission on Nomenclature of Inorganic Chemistry concerning names and symbols of the heavy 'unknown' elements is :

- Ans
- 1. The names should be short and obviously related to the atomic numbers of the elements.
  - 2. The symbols for the systematically named elements should consist of three letters.
  - 3. The names should end in 'ium' whether the element was expected to be a metal or otherwise.
  - 4. The symbols should be derived directly from the atomic numbers and be visually related to the names as far as possible.

Ques  
Opti  
Opti  
Opti  
Opti  
Chosen

Q.3 The following are the principles of which type of communication?  
Clarity, Completeness, Conciseness, Consideration, Courtesy, Correctness

- Ans
- 1. Non Verbal communication
  - 2. Visual and Audio visual communication
  - 3. Oral communication
  - 4. Written communication

Q.4 Which of the following is the most dangerous route of chemical exposure into the body?

- Ans
- 1. Ingestion
  - 2. Dermal exposure
  - 3. Explosion
  - 4. Inhalation

Q.5 Which of the following is not a salient feature of covalent or molecular hydrides?

- Ans
- 1. These hydrides are formed by elements of comparatively higher electronegativity
  - 2. Some covalent hydrides of Groups 2 and 13 are electron deficient.
  - 3. They have high melting points and conduct electricity in fused state liberating hydrogen at the anode.
  - 4. They are volatile compounds

Q.6 Which of the following step is not present in outer sphere electron transfer reactions?

- Ans
- 1. Bridged Binuclear Intermediate formation
  - 2. Products separation
  - 3. Formation of Precursor complex
  - 4. Successor complex formation

Q.7 Which of the following is not an element of the model of communication of Aristotle?

- Ans
- 1. Audience
  - 2. Speech
  - 3. Speaker
  - 4. Message

Q.8 Which of the following is incorrect statement about the phase diagram for water system?

- Ans
- 1. The curve OA represents the metastable equilibrium.
  - 2. The triple point is the same as the ordinary melting point of ice (i.e.,  $0^{\circ}\text{C}$ ).
  - 3. Three curves OA, OB and OC divide the diagram into three areas AOB, AOC and BOC
  - 4. The three curves meet at the point O and is known as triple point.

Q.9 Which of the following is the first and the most important step in development of achievement test?

- Ans
- 1. Instructional objectives
  - 2. Blueprint
  - 3. Design
  - 4. Marking scheme

Q.10 How many chloride ions are outside the coordination sphere in  $\text{CoCl}_3 \cdot 6\text{NH}_3$ ?

- Ans
- 1. 3 chloride ions
  - 2. 1 chloride ions
  - 3. All chlorine ions are bonded to the cobalt
  - 4. 2 chloride ions

Qu  
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Chose

Q.11 Which of the following pair is an example of Pseudo unimolecular reaction?

- Ans
- 1. Decomposition of nitrogen pentoxide and decomposition of hydrogen pentoxide
  - 2. Hydrolysis of ethyl acetate and inversion of cane-sugar
  - 3. Hydrolysis of ethyl acetate and decomposition of nitrogen pentoxide
  - 4. Inversion of cane-sugar and decomposition of hydrogen pentoxide

Qu  
Op  
Op  
Op  
Op  
Chose

Q.12 Which of the following is not correct statement regarding molecular orbital theory of coordination compounds?

- Ans
- 1. Atomic orbitals combine with other atomic orbitals of similar energy
  - 2. The number of molecular orbitals equals the number of atomic orbitals
  - 3. More overlap means bonding orbital goes higher in energy, antibonding orbital goes lower in energy
  - 4. The overlap of two atomic orbitals gives two molecular orbitals, one bonding, one antibonding

Q.13 Which of the following statement is incorrect about C-X bonds in haloalkanes?

- Ans
- 1. The equatorial preferences for X depend on the C-X bond length
  - 2. Polar C-X bonds cause most haloalkanes to have molecular dipoles
  - 3. As the electronegativity values of X increase in the order  $I < Br < Cl < F$  the dipole moments of monohaloalkanes increases in the same order
  - 4. C-X bond lengths increase in the order  $C-F < C-Cl < C-Br < C-I$

Q.14 Which of the following is not an example of interpersonal barrier?

- Ans
- 1. Categorical thinking
  - 2. Emotional outburst
  - 3. Communication selectivity
  - 4. Poor listening skills

Q.15 Secondary suffix in the IUPAC nomenclature system is used to indicate :

- Ans
- 1. The functional group in the organic compound
  - 2. Number of carbon atoms in the parent chain
  - 3. Different categories of groups present in molecule
  - 4. The saturation or unsaturation in the carbon chain

Q.16 Which of the following artificial sweeteners has limited usage in cold foods and soft drinks?

- Ans
- 1. Sucralose
  - 2. Aspartame
  - 3. Alitame
  - 4. Saccharin

Question ID :  
Option 1 ID :  
Option 2 ID :  
Option 3 ID :  
Option 4 ID :  
Status :  
Chosen Option :

Q.17 Which of the following is not a characteristic feature of continuous evaluation?

- Ans
- 1. Continuous evaluation is formally carried out in the classroom
  - 2. The purpose of continuous evaluation is mainly improvement in learning
  - 3. Continuous evaluation is a part of the daily routine for a teacher.
  - 4. Continuous evaluation is formative in nature and is school based

Question ID :  
Option 1 ID :  
Option 2 ID :  
Option 3 ID :  
Option 4 ID :  
Status :  
Chosen Option :

Q.18 Which of the following is a salient feature of canonical forms of a resonance structure?

- Ans
- 1. The energy of the resonance hybrid is more than the energy of any single canonical structure
  - 2. The molecule as such has a single structure which is the resonance hybrid of the canonical forms
  - 3. Molecules exist for a certain fraction of time in one canonical form and for other fractions of time in other canonical forms.
  - 4. There is an equilibrium between the canonical forms

Q.19 Which of the following alkyl halide does not give alkanes on reduction with zinc and dilute hydrochloric acid?

- Ans
- 1. fluoride
  - 2. iodide
  - 3. bromide
  - 4. chloride

Questi  
Optior  
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Optior  
Optior  
S  
Chosen O

Q.20 The elements of which family are known as chalcogens?

- Ans
- 1. Helium Family
  - 2. Fluorine family
  - 3. Oxygen family
  - 4. Carbon family

Questi  
Optior  
Optior  
Optior  
Optior  
S  
Chosen O

Q.21 The incorrect statement about valency is :

- Ans
- 1. As per the Falkland concept the valency of oxygen increases from 1 to 7 across the period
  - 2. According to new concept valency for IA to IVA group is equal to valence shell electrons
  - 3. The valency of group VA, VIA and VIIA is 1, 2 and 3 respectively.
  - 4. As per the Falkland concept the valency of hydrogen across the period increases upto 4 and then decreases to 1



Q.22 The correct order of reactivity of alkyl halides towards SN1 reaction is:

- Ans
- 1. Primary halide > secondary halide > tertiary halide
  - 2. Halides do not show SN1 reaction
  - 3. Tertiary halide > secondary halide > primary halide
  - 4. Order of reactivity is same for all types of halides

Qu  
Op  
Op  
Op  
Op  
Chose

Q.23 The mining operations of which element can cause emissions and soil pollution of mercury, cyanide, arsenic, zinc, lead, nickel and other toxic elements?

- Ans
- 1. Platinum
  - 2. Silver
  - 3. Gold
  - 4. Radium

Qu  
Op  
Op  
Op  
Op  
Chose

Q.24 What will be the value of uncertainty in momentum when the position of an electron in an atom is found out to be 0.100 nm?

- Ans
- 1.  $5.28 \times 10^{25}$  kg·m/s
  - 2.  $5.28 \times 10^{-2}$  kg·m/s
  - 3. 5.28 kg·m/s
  - 4.  $5.28 \times 10^{-25}$  kg·m/s

Q.25 From concrete to abstract is an example of which of the following content curriculum organising process?

- Ans  1. Sequencing  
 2. Integration  
 3. Interest  
 4. Continuity

Question  
Option 1  
Option 2  
Option 3  
Option 4  
Status  
Chosen Opt

Q.26 Which of the following is the first step in preparation of a table of specifications (Blueprint)?

- Ans  1. give weightage to different forms of questions  
 2. give weightage to different objectives  
 3. give weightage to marks and time for different forms of questions  
 4. give the weightage to different content units

Question  
Option 1  
Option 2  
Option 3  
Option 4  
Status  
Chosen Opt

Q.27 Which of the following is incorrect statement about the emf of the cell?

- Ans  1.  $E^{\circ} \text{ cell} = E^{\circ} \text{ cathode} - E^{\circ} \text{ anode}$   
 2. The emf of the cell must be measured without drawing current from the cell.  
 3. Digital voltmeter cannot be used but Analogue voltmeter can be used.  
 4. The emf of cell is found to be 0.76 V (i.e., oxidation potential is 0.76 V). Therefore, reduction potential is -0.76 V.

Q.28 Atomic radius is directly proportional to all of the following except :

- Ans
- 1. Magnitude of negative charge
  - 2. Number of shells
  - 3. Screening effect
  - 4. Magnitude of positive charge

Ques:  
Optic  
Optic  
Optic  
Optic  
Chosen

Q.29 Which of the following thermoplastic polymer is synthesized via anionic ring-opening polymerization?

- Ans
- 1. Lactams
  - 2. Nylon 6
  - 3. Lactones
  - 4. Siloxanes

Ques:  
Optic  
Optic  
Optic  
Optic  
Chosen

Q.30 Which of the following alkaline earth metal has the minimum tendency to form  $M^{2+}$  ion due to its high ionization energy?

- Ans
- 1. Radium
  - 2. Barium
  - 3. Strontium
  - 4. Beryllium

Q.31 Which of the following statement is not correct about Bohr model of hydrogen atom?

- Ans
- 1. Bohr model defined the position (orbits) and momentum of the electron at the same time.
  - 2. The angular momentum of the electron in the ground state of a hydrogen atom is equal to zero.
  - 3. This theory was unable to explain of dual nature (wave particle duality) of the electron.
  - 4. The model could not account for hyperfine structures like doublets and triplets.

Quest  
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Optio  
Optio  
Optio  
S  
Chosen C

Q.32 Which of the following is not correct resemblance between hydrogen and halogens?

- Ans
- 1. Hydrogen is one electron short of the corresponding inert gas helium.
  - 2. Hydrogen forms halides, oxides and sulphides.
  - 3. hydrogen forms a large number of covalent compounds by sharing a pair of electrons.
  - 4. Hydrogen forms a diatomic molecule by sharing a pair of electrons between the two atoms.

Quest  
Optio  
Optio  
Optio  
Optio  
S  
Chosen C

Q.33 Which of the following is not correct about nomenclature of coordination compounds?

- Ans
- 1. Ligands are listed alphabetically after the metal
  - 2. Anion is named last
  - 3. Cation appears first
  - 4. If complex is anion, its ending is changed to -ate

Q.34 Which of the following ketose does not show D-L configuration?

- Ans
- 1. Seduheptulose
  - 2. Ribulose
  - 3. Xylulose
  - 4. Dihydroxyacetone

Quest  
Optio  
Optio  
Optio  
Optio  
Optio  
Chosen C

Q.35 Which of the following is not a characteristic feature of communication?

- Ans
- 1. Communication is continuous
  - 2. Communication is personal
  - 3. Communication is circular
  - 4. Communication is reversible

Quest  
Optio  
Optio  
Optio  
Optio  
Optio  
Chosen C

Q.36 Which of the statement will be correct regarding the changed colligative properties of water in a solution containing 50 grams of sugar in 117 grams of water?

- Ans
- 1. Boing point and vapour pressure are raised
  - 2. Freezing point and osmotic pressure are lowered
  - 3. Freezing point and vapour pressure are raised
  - 4. Boiling point and osmotic pressure raised

Q.37 Which of the following conditions will be correct as per the Gibbs and Helmholtz equation?  
 $\Delta G = \Delta H - T\Delta S$

- Ans
- 1. If  $\Delta H$  is negative - reaction is endothermic and spontaneous,  $\Delta G$  will be negative
  - 2. If  $\Delta H$  is negative - reaction is exothermic and spontaneous,  $\Delta G$  will be positive
  - 3. If  $\Delta S$  is negative - reaction is exothermic and spontaneous,  $\Delta G$  will be negative
  - 4. If  $\Delta H$  is negative - reaction is exothermic and spontaneous,  $\Delta G$  will be negative

Q  
C  
C  
C  
C  
Chos

Q.38 Which of the following physical properties are not same for enantiomers?

- Ans
- 1. Rotation of plane polarized light
  - 2. Density
  - 3. Boiling point
  - 4. Freezing point

Q  
C  
C  
C  
C  
Chos

Q.39 Identify the element of Nitrogen family that has following features:

- a. This element does not show allotropy
- b. It is a silvery-white metal at room temperature
- c. It hardly forms any compound in oxidation state -3

- Ans
- 1. Bismuth
  - 2. Antimony
  - 3. Nitrogen
  - 4. Phosphorus

Q.40 Which type of complex reactions are very common in organic chemistry?

- Ans
- 1. Chain reactions
  - 2. Reverse or opposing reactions
  - 3. Competing, parallel or side reactions
  - 4. Consecutive reactions

Q.41 Tritium is radioactive and decays by emission of a/an :

- Ans
- 1. Neutrino
  - 2. Alpha particle
  - 3. gamma ray
  - 4. beta-particle

Q.42 Identify the element which has following biological significances:

- a. Present in bones
- b. Equilibrium is maintained by kidney
- c. Excessive intake may result in hypertension

- Ans
- 1. Magnesium
  - 2. Sodium
  - 3. Potassium
  - 4. Calcium

Q.43 Which level of protein structure is not present in myoglobin?

- Ans  1. Quaternary  
 2. Secondary  
 3. Primary  
 4. Tertiary

Question II  
Option 1 II  
Option 2 II  
Option 3 II  
Option 4 II  
Status:  
Chosen Option

Q.44 Which of the following is incorrect about the principles of curriculum designing?

- Ans  1. Curriculum designing involves decision about content only  
 2. Curriculum designing involves many groups  
 3. Curriculum designing is concerned with the experiences of learners  
 4. Curriculum designing is a continuous process

Question II  
Option 1 II  
Option 2 II  
Option 3 II  
Option 4 II  
Status:  
Chosen Option

Q.45 Which of the following is not a characteristic of a catalytic action?

- Ans  1. Nature of products is altered by the presence of a catalyst.  
 2. A small concentration of a catalyst is required in the reaction.  
 3. The amount of catalyst remains unchanged.  
 4. The position of equilibrium and the value of equilibrium remains unchanged in the presence of a catalyst



Q.46 The most encountered geometry for the coordination number six is :

- Ans
- 1. Planar
  - 2. Octahedral
  - 3. Tetrahedral
  - 4. Square planar

Que  
Opt  
Opt  
Opt  
Opt  
Choser

Q.47 In which type of curriculum the greatest emphasis is on facts, principles and skills in the subject concerned?

- Ans
- 1. Activity-centred curriculum
  - 2. Child-centred curriculum
  - 3. Subject-centred curriculum
  - 4. Integrated curriculum

Que  
Opt  
Opt  
Opt  
Opt  
Choser

Q.48 Which of the following solution will have lowest Van't Hoff Factor?

- Ans
- 1. 1 mole CaS
  - 2. 1 mole  $\text{Na}_2\text{S}$
  - 3. 1 mole NaCl
  - 4. 1 mole sugar

Q.49 Which of the following effect is observed when NaCl is added to water?

- Ans  1. Decrease in vapour pressure  
 2. Decrease in osmotic pressure  
 3. Increase in freezing point  
 4. Increase in vapour pressure

Q.50 Fluorine is extremely reactive and reacts directly with all elements including the following noble gas :

- Ans  1. helium  
 2. argon  
 3. xenon  
 4. neon

Q.51 Which of the following is an incorrect statement of direct grading?

- Ans  1. It minimizes the interexaminer variability  
 2. It is easier to use when compared with other methods of grading  
 3. It has objectivity and precision and also diagnostic value  
 4. It is a preferred method for assessment of noncognitive learning outcomes

Q.52 Which of the following statement is incorrect about alkynes?

- Ans
- 1. Alkynes are more dense than water.
  - 2. The members of alkynes can be either liquid, solid or gases.
  - 3. Alkynes are flammable, and also polymerize easily, sometimes explosively.
  - 4. Alkynes share with alkanes and alkenes the properties of low density and low water solubility.

Q  
C  
C  
C  
C  
C  
Chos

Q.53 The correct statement about the de Broglie wavelength is :

- Ans
- 1. de Broglie wavelength is directly proportional to the velocity of the particle.
  - 2. de Broglie wavelength is dependent on the charge of the particle.
  - 3. de Broglie wavelength is directly proportional to the mass of the particle.
  - 4. If the particle is at rest, then the de Broglie wavelength is infinite.

Q  
C  
C  
C  
C  
C  
Chos

Q.54 The unintended or unnoticed curriculum which school, college or university organization does not consciously plan and design such curriculum is known as :

- Ans
- 1. Overt Curriculum
  - 2. Explicit Curriculum
  - 3. Hidden Curriculum
  - 4. Null Curriculum

Q.55 Which of the following is not a correct feature of lyophobic colloids?

- Ans
- 1. Particles are not solvated.
  - 2. The colloidal particles migrate in an electric field.
  - 3. The Tyndall effect is less distinct than Lyophilic colloids
  - 4. They are generally inorganic substances.

Questi  
Optior  
Optior  
Optior  
Optior  
S  
Chosen O

Q.56 Who introduced the learning by insights?

- Ans
- 1. Hurlock
  - 2. Gestalt psychologists
  - 3. Woodworth
  - 4. Murphy

Questi  
Optior  
Optior  
Optior  
Optior  
S  
Chosen O

Q.57 Which of the following criteria is not correct for drinking water source without conventional treatment but after disinfection as per Central Pollution Control Board?

- Ans
- 1. Total Coliforms Organism MPN/100ml shall be 5000 or less
  - 2. Biochemical Oxygen Demand 5 days 20 °C 2mg/l or less
  - 3. pH between 6.5 and 8.5
  - 4. Dissolved Oxygen 6mg/l or more

Q.58 Which of the following type of soaps contain fillers like sodium rosinate, sodium silicate, borax and sodium carbonate?

- Ans
- 1. Medicated soaps
  - 2. Laundry soaps
  - 3. Toilet soaps
  - 4. Shaving soaps

Ques  
Optic  
Optic  
Optic  
Optic  
Chosen

Q.59 Which of the following is not indicated in the structural formulas?

- Ans
- 1. Number of bonds (single, double)
  - 2. Number of bonding electrons
  - 3. Nonbonding electron pairs
  - 4. Atomic valences

Ques  
Optic  
Optic  
Optic  
Optic  
Chosen

Q.60 The number of parts of calcium carbonate equivalent hardness presents in 70,000 parts of water is which of the following unit of hardness?

- Ans
- 1. Degree French ( $^{\circ}\text{Fr}$ )
  - 2. Clark's degree ( $^{\circ}\text{Cl}$ )
  - 3. Parts per Million (ppm)
  - 4. Milligrams per litre (mg/l)

- Q.61 The correct statement(s) about the internal energy among the following is/are:
- It is impossible to measure the total internal energy of a system in any given state.
  - For a real gas the internal energy is sum of the kinetic and potential energies of molecules
  - The internal energy of an ideal gas is dependent upon its volume.
  - The internal energy of a real gas is a function of both temperature and volume.

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

- Q.62 Which of the following is incorrect about reliability as a test characteristic?

- Ans
- 1. High reliability necessarily implies validity
  - 2. A valid test is reliable
  - 3. A test is reliable if it gives consistent results of measurement on its administrati different occasions
  - 4. Test-retest method is one of the simple methods to estimate reliability of tests

- Q.63 Which of the following calcium compound is obtained by heating gypsum at 393 K?

- Ans
- 1. Calcium sulphate
  - 2. Calcium hydroxide
  - 3. Calcium carbonate
  - 4. Calcium stearate

Q.64 Paraldehyde, used in medicine as a hypnotic agent is a trimer of :

- Ans  1. Acetaldehyde  
 2. Formaldehyde  
 3. Benzaldehyde  
 4. Propionaldehyde

Qu  
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Op  
Op  
Op  
Chose

Q.65 The correct statement about the number of possible sets, lowering of energy and stability of configuration of Cr is :

- Ans  1. Lowering of energy is greater for configuration  $3d^5 4s^1$  than  $3d^4 4s^2$   
 2. The number of possible sets for configuration of  $3d^4 4s^2$  is 15  
 3. The configuration is stable when both number of possible sets and lowering of energy values are low  
 4. The number of possible sets for configuration of  $3d^5 4s^1$  is 10

Qu  
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Op  
Op  
Op  
Chose

Q.66 Which of the following metal does not require heating with acetylene for the formation of ionic carbide through reaction with carbon?

- Ans  1. Potassium  
 2. Cesium  
 3. Lithium  
 4. Rubidium

Q.67 Which of the following is incorrect about contextualization of learning?

- Ans
- 1. Teachers can use metaphors and analogies in this method of learning
  - 2. Contextual learning refers to relating subject matter with meaningful situations
  - 3. A teacher can use fictitious story in this concept
  - 4. It is similar in meaning to the abstract concepts

Q1

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Chos

Q.68 Which of the following metal has application in making hard metal alloys and rocket nose cones?

- Ans
- 1. Magnesium
  - 2. Barium
  - 3. Calcium
  - 4. Beryllium

Q1

0

0

0

0

0

Chos

Q.69 Water molecule has following features except :

- Ans
- 1. Water has a melting point and a freezing point which are high
  - 2. The temperature of maximum density of pure water is  $0^{\circ}\text{C}$ .
  - 3. Water has the greatest heat capacity of any compound except ammonia
  - 4. Water has the greatest surface tension except mercury



Q.70 Which of the following is an example of Systemic Antacids?

- Ans
- 1. Magaldrate
  - 2. Calcium carbonate
  - 3. Sodium carbonate
  - 4. Magnesium carbonate

Q.71 Which of the following statement is incorrect about evaluating the curriculum?

- Ans
- 1. There are two types of evaluation: student and curriculum
  - 2. Evaluation may be formative or summative
  - 3. Development try-out is a summative evaluation
  - 4. Evaluation is both qualitative and quantitative

Q.72 Which of the following is not a Free response question type?

- Ans
- 1. Long answer type questions
  - 2. Matching items
  - 3. Short answer type questions
  - 4. Very short answer type questions

Q.73 Which of the following statement is correct about ionization enthalpy of elements of first transition series?

- Ans
- 1. first ionization energy values of 3d-series elements show irregular trend
  - 2. The variation or irregularity occurring in the values of ionization energies across the series are mainly due to the changes in atomic radii
  - 3. the second and third ionization energy values generally show the increasing trend from Sc to Zn
  - 4. Due to irregularity occurring in the values of ionization energy across the series the elements of first transition series show high reactivity

Question I  
Option 1 I  
Option 2 I  
Option 3 I  
Option 4 I  
Statu  
Chosen Optio

Q.74 The N-H bending absorption of primary amines is observed near :

- Ans
- 1.  $3300\text{ cm}^{-1}$
  - 2.  $3500\text{ cm}^{-1}$
  - 3.  $1600\text{ cm}^{-1}$
  - 4.  $800\text{ cm}^{-1}$

Question I  
Option 1 I  
Option 2 I  
Option 3 I  
Option 4 I  
Statu  
Chosen Optio

Q.75 What will be the predicted molecular shape of the molecule for which steric number is 5 and number of lone pairs is 2?

- Ans
- 1. Linear
  - 2. Trigonal bipyramidal
  - 3. T-shaped
  - 4. Sawhorse

Q.76 Which of the following property increases while going down the group of alkali metals (from Li to Cs)?

- Ans
- 1. Melting point
  - 2. Ionization energy
  - 3. Softness
  - 4. Boiling point

Question  
Option  
Option  
Option  
Option  
S  
Chosen O

Q.77 Identify the functional group which gives a yellow or orange crystalline precipitate when it is tested with dinitrophenylhydrazine.

- Ans
- 1. Ether present
  - 2. Aldehyde or ketone present
  - 3. Alcohol present
  - 4. Ester present

Question  
Option  
Option  
Option  
Option  
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Chosen O

Q.78 Which of the following is not a salient feature of Carnot cycle?

- Ans
- 1. The Carnot cycle is the only reversible cycle which involve only two temperatures.
  - 2. A Carnot cycle is an ideal reversible closed thermodynamic cycle in which there are only three successive operations involved
  - 3. The efficiency of the Carnot cycle depends on empirical temperatures of two baths
  - 4. The efficiency of the Carnot cycle does not depend on gas characteristics

Q.79 The mass of 0.40 moles of  $C_6H_{12}O_6$  is :

- Ans  1. 72.064  
 2. 4.50  
 3. 7.206  
 4. 45.04

Q.80 Which of the following is not a correct element of mass communication?

- Ans  1. relatively large audience (masses)  
 2. fairly undifferentiated audience composition  
 3. different form of message reproduction  
 4. low unit cost to the recipients/customers

Q.81 The incorrect statement about the molecularity of a reaction is :

- Ans  1. For a complex reaction, the molecularity has no significance.  
 2. It cannot be obtained from a single balanced chemical reaction  
 3. Molecularity is a theoretical concept  
 4. It is a whole number and generally never exceeds three

Q.82 Which of the following is not a correct feature of Bakelite?

- Ans
- 1. It cannot be reclaimed from wastes
  - 2. It is hard, strong and brittle
  - 3. It cannot be reshaped and reused
  - 4. It is soluble in suitable solvents

Ques

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Q.83 Lanthanoid contraction essentially compensates for the expected increase in which of the following properties of D-block with increasing atomic number?

- Ans
- 1. Catalytic properties
  - 2. increase in ionization enthalpy
  - 3. increase in atomic size
  - 4. Diamagnetism

Ques

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Q.84 Which of the following is fourth level in Bloom's Taxonomy?

- Ans
- 1. Apply
  - 2. Remember
  - 3. Analyze
  - 4. Evaluate

Q.85 Which of the following polyprotic acid has three pKa values?

- Ans
- 1. Carbonic acid
  - 2. Phosphoric acid
  - 3. Chromic acid
  - 4. Oxalic acid

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Q.86 Which of the following electrode has following features?

- a. The reaction occurs at the surface of the electrode
- b. The electroactive ion diffuses to the electrode surface and adsorbs to it by van der Waals and coulombic forces.
- c. The actual electron-transfer occurs by quantum-mechanical tunnelling.

- Ans
- 1. Insoluble-salt electrodes
  - 2. Metal-metal electrode
  - 3. Gas electrodes
  - 4. Ion-ion electrodes

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Q.87 Which of the following statement is incorrect about the oxidation number of compounds?

- Ans
- 1. The oxidation number of halides (except fluorine) combined with oxygen is typically negative.
  - 2. When oxygen is bonded to fluorine, as in hypofluorous acid (HOF), the oxidation number of oxygen is 0.
  - 3. In peroxides, the oxidation number of oxygen is  $-1$ .
  - 4. In compounds, the oxidation number of hydrogen is almost always  $+1$  except when hydrogen combines with metals

**Q.88** Which of the following statement is incorrect about the periodic properties?

- Ans**
- 1. Moving down a group effective nuclear charge does NOT increase, actual nuclear charge increases a lot, and shielding Effect increases a lot
  - 2. Across a period, ionization energy generally decreases
  - 3. There is little variation in atomic size throughout a row of transition elements
  - 4. Moving across a period effective nuclear charge increase, actual nuclear charge increases a lot, and shielding Effect increases little

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**Q.89** Which of the following is incorrect about oil-in-water and water-in-oil emulsions?

- Ans**
- 1. Electrical conductivity of aqueous emulsions is higher than that of oily emulsions.
  - 2. The emulsion will be oil-in-water type if the whole background is colored in the oil-soluble dye test.
  - 3. The type of emulsion can be determined by surface tension.
  - 4. An oily emulsion spreads on the surface of an oil easily.

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**Q.90** Arrange the following carboxylic acids in the order of increasing acidity: formic acid, benzoic acid, acetic acid, chloroacetic acid

- Ans**
- 1. formic acid > benzoic acid > acetic acid > chloroacetic acid
  - 2. chloroacetic acid > formic acid > benzoic acid > acetic acid
  - 3. acetic acid > chloroacetic acid > formic acid > benzoic acid
  - 4. benzoic acid > formic acid > chloroacetic acid > acetic acid

Q.91 The incorrect statement about rubber and gutta percha is :

- Ans
- 1. Rubber is elastic and gutta percha is hard and rigid
  - 2. Rubber has a less symmetrical structure that does not allow easy crystallization while gutta percha allows crystallization
  - 3. Rubber is trans-1,4-polyisoprene and gutta percha is cis-1,4-polyisoprene
  - 4. Rubber and gutta-percha both are polyisoprenes

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Q.92 Which of the pair of class and example of pesticide is not correct?

- a. Organophosphate pesticides – diazinon
- b. Carbamate pesticides – dimetilan
- c. Organochlorine insecticides – malathion
- d. Sulfonylurea herbicides – lindane

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

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Q.93 Which of the following reaction condition will lead to the formation of symmetrical ethers?

- Ans
- 1. Primary alcohols in the presence of protic acids at moderate temperature (413 K)
  - 2. Tertiary alcohols in the presence of protic acids at high temperature (443 K)
  - 3. Primary alcohols in the presence of protic acids at high temperature (443 K)
  - 4. Primary alcohols in the presence of protic acids at low temperature (273 K)



Q.94 Which of the following statement is incorrect about the bond enthalpy?

- Ans
- 1. Shorter the bond length larger is the value of bond enthalpy
  - 2. Larger the size of the bonded atoms, larger is the value of bond enthalpy
  - 3. Larger the bond enthalpy, stronger will be the bond in the molecule
  - 4. There is some difference in energy of the same O – H bond in different molecules like ethanol and water.

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Q.95 Which of the following is used as a catalyst for polymerization of ethene in the manufacture of polythene?

- Ans
- 1.  $MnO_2$
  - 2.  $TiCl_4$
  - 3. Fe
  - 4.  $V_2O_5$

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Q.96 What is the IUPAC name of 2-pentanamine?

- Ans
- 1. 1,2-pentanediamine
  - 2. 1-methylbutylamine
  - 3. 1,1-dimethylethanamine
  - 4. N,N-dimethylethanamine

Q.97 Which of the following statement is incorrect about substitution reaction in haloarenes?

- Ans
- 1.  $sp^2$  hybridisation in haloarenes make them less reactive towards nucleophilic substitution reaction
  - 2. Due to the resonance effect haloarenes are more reactive towards nucleophilic substitution reaction
  - 3.  $SN_1$  mechanism is ruled out in haloarenes Instability of phenyl cation
  - 4. Haloarenes undergo the usual electrophilic reactions of the benzene ring

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Q.98 Which of the following is not a characteristic feature of rate laws?

- Ans
- 1. It may depend upon the concentration of species (Catalyst) which do not appear in the equation for the overall reaction.
  - 2. Rate law can be predicted from the form of the stoichiometric equation for the overall reaction.
  - 3. It may not depend upon concentration of every reactant.
  - 4. It must be determined experimentally.

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Q.99 The calculated magnetic moments corresponding to 4 unpaired electrons will be :

- Ans
- 1. 2.83 Bohr Magneton
  - 2. 5.92 Bohr Magneton
  - 3. 3.87 Bohr Magneton
  - 4. 4.90 Bohr Magneton

Q.100 Who developed the Twelve Principles of Green Chemistry in 1991?

- Ans
- 1. Greten and Remisch
  - 2. Kiamoss and Nielson
  - 3. Onuegbu and Ekemezie
  - 4. Anastas and Warner