


**OSSC CGL 2022-23**

**E-BOOK- PDF**

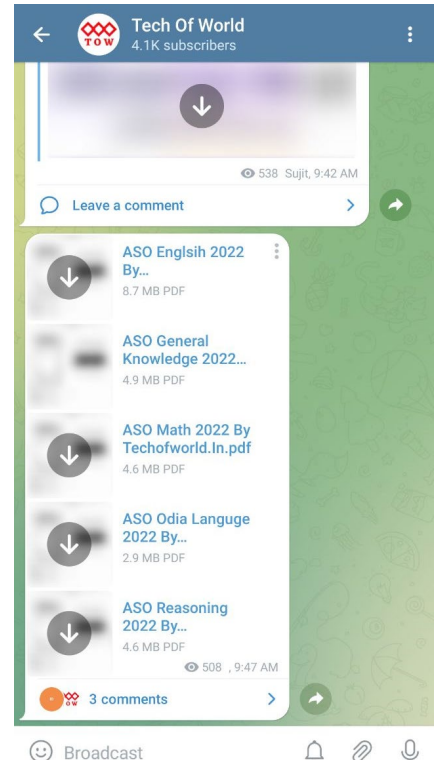
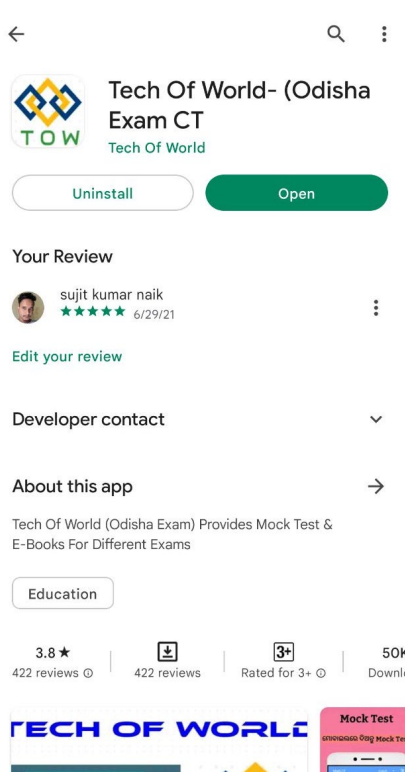
**7,000 MCQ**

**EXPLANATION**

**All Important Questions & Answers**



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Exam Date: 08-Feb-2022

Exam Time: 10:30-12:00

Post Name: Paper - I

**General English Language - General English Language****Question No.1**

In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and select the option corresponding to it. If the sentence does not have any error then select the option 'NO ERROR'. (Avoid punctuation errors)

(A) Ram and myself / (B) are going to visit / (C) the college on Sunday. / (D) NO ERROR.

(A)  **A (Correct Answer)** (Chosen option)

(B)  C

(C)  D

(D)  B

**Question No.2**

Find the correct 'indirect speech' for the given sentence in 'direct speech' from the given alternatives.

He says, "I eat an apple a day."

(A)  **He says that he eats an apple a day. (Correct Answer)** (Chosen option)

(B)  He explained that he eats an apple a day.

(C)  He demanded that he eats an apple a day.



(D)  He told that he eat an apple a day.

### Question No.3

Fill in the blanks with suitable Preposition from the given alternatives.

Susan and I agree \_\_\_\_\_ the book.

- (A)  under
- (B)  beneath
- (C)  near
- (D)  **about (Correct Answer)** (Chosen option)

### Question No.4

Find the correct active/ passive voice for the given sentence in passive/ active voice from the given alternatives.

She will be given a chance by them.

- (A)  They would give her a chance.
- (B)  They gave her a chance.
- (C)  **They will give her a chance. (Correct Answer)** (Chosen option)
- (D)  They give her a chance.

### Question No.5

Replace the underlined phrase grammatically and conceptually with the help of the given options. If the given sentence is correct then select the option 'The given sentence is correct'.

The gender wage gap are a measure of what male employees are paid in comparison to female employees.

- (A)  is a measuring of what male employees is
- (B)  is a measure of what male employees is

- (C)  is a measure of what male employees are (Correct Answer) (Chosen option)  
(D)  The given sentence is correct

### Question No.6

In the following question, one part of the sentence may have an error. Find out which part of the sentence has an error and select the option corresponding to it. If the sentence does not have any error then select the option 'NO ERROR'. (Avoid punctuation errors)

- (A) How long has / (B) you been working / (C) in this office? / (D) NO ERROR.  
(A)  B  
(B)  D  
(C)  A (Correct Answer) (Chosen option)  
(D)  C

### Question No.7

Fill in the blanks with suitable Preposition from the given alternatives.

The chief guest asked the teachers to tie a ribbon \_\_\_\_\_ the gift box.

- (A)  beyond  
(B)  around (Correct Answer) (Chosen option)  
(C)  since  
(D)  between

### Question No.8

Rearrange the following to form a meaningful sentence and find the most logical order from the given options.

- P: if you are in the mood for some indulgence  
Q: this weekend, look no further for we bring you the

R: sandwich and pasta in one dish  
S: perfect blend of creamy and cheesy

- (A)  RSPQ
- (B)  SRPQ
- (C)  PQSR (Correct Answer) (Chosen option)
- (D)  PSQR

### Question No.9

Rearrange the following to form a meaningful sentence and find the most logical order from the given options.

P: the graphic artist came into  
Q: became a sensational hit  
R: the spotlight in 2017, when  
S: his vector work of Lord Hanuman

- (A)  RSPQ
- (B)  PSRQ
- (C)  QSRP
- (D)  PRSQ (Correct Answer) (Chosen option)

### Question No.10

The car\_\_\_\_\_in my family for 12 years.

- (A)  had been
- (B)  was
- (C)  has been (Correct Answer) (Chosen option)
- (D)  being

### Question No.11

Replace the underlined phrase grammatically and conceptually with the help of the given options. If the given sentence is correct then select the option 'The given sentence is correct'.

The irresponsible and careless aspirant was living a aimless life by living at home with his guardian without trying to get a job.

- (A)  were living an aimless life by living at (Chosen option)
- (B)  was living an aimless life by living about
- (C)  **was living an aimless life by living at (Correct Answer)**
- (D)  The given sentence is correct

### Question No.12

Fill in the blanks with suitable Article from the given alternatives.

Rajesh is \_\_\_\_\_ lionhearted person.

- (A)  **a (Correct Answer)** (Chosen option)
- (B)  an
- (C)  the
- (D)  No article

### Question No.13

Have you \_\_\_\_\_ your work?

- (A)  had completed
- (B)  completing
- (C)  has completed
- (D)  **completed (Correct Answer)** (Chosen option)

### Question No.14

Find the correct 'direct speech' for the given sentence in 'indirect speech' from the given alternatives.

Ramya asked Shwetha, why she was painting on the wall.

- (A)  **Ramya said to Shwetha, 'Why are you painting on the wall?' (Correct Answer)**  
(Chosen option)
- (B)  Ramya said that to Shwetha, 'Why are you painting on the wall?'
- (C)  Ramya said that Shwetha, 'Why are you painting on the wall?'
- (D)  Ramya said to Shwetha, that 'Why are you painting on the wall?'

### Question No.15

Fill in the blanks with suitable Article from the given alternatives.

Athletics is \_\_\_\_\_ Olympic Sport.

- (A)  a (Chosen option)
- (B)  **an (Correct Answer)**
- (C)  the
- (D)  No Error

### Question No.16

Find the correct active/ passive voice for the given sentence in passive/ active voice from the given alternatives.

She will have taken them to her home.

- (A)  They will have taken by her to her home.
- (B)  They would have taken by her to her home.
- (C)  **They will have been taken by her to her home. (Correct Answer)** (Chosen option)
- (D)  They will been taken by her to her home.

### Question No.17



Guru\_\_\_\_\_English everyday.

- (A)  studied
- (B)  was studying
- (C)  had studied
- (D)  **studies (Correct Answer)** (Chosen option)

### Case Study - 18 to 19

**Directions:** Read the passage and fill the blanks with suitable pronoun.

#### Question No.18

**A.** The poem 'Twinkle Twinkle little star' was first published with the title 'The Star' in 1806 in Rhymes for the Nursery, a collection of poems by Jane Taylor and her sister Ann Taylor. \_\_\_\_**(A)**\_\_\_\_ lines have been written from the perspective of a young child who wonders and addresses the star directly to ask what \_\_\_\_**(B)**\_\_\_\_ is.

- (A)  That
- (B)  It
- (C)  **Those (Correct Answer)** (Chosen option)
- (D)  This

#### Question No.19

**B.** The poem 'Twinkle Twinkle little star' was first published with the title 'The Star' in 1806 in Rhymes for the Nursery, a collection of poems by Jane Taylor and her sister Ann Taylor. \_\_\_\_**(A)**\_\_\_\_ lines have been written from the perspective of a young child who wonders and addresses the star directly to ask what \_\_\_\_**(B)**\_\_\_\_ is.

- (A)  this
- (B)  those
- (C)  that
- (D)  **it (Correct Answer)** (Chosen option)

**Case Study - 20 to 22**

**Directions :** Read the passage carefully and answer the questions that follow.

Finland's education system boasts of giving hardly any homework to its kids. In fact most kids believe that they can complete their homework in less than half an hour. The teachers and the principals support this lack of homework as they believe that students have other things to do which are equally important. Sports, socialising, being with family and even exploring their backyard are considered to be very important in a student's life.

Finnish students spend the least amount of time in school than students from other parts of the world. On average Finnish students only spend three hours and forty five minutes in school which includes lunch time. This is again supported by the fact that students have a life outside school. It is stated by Finnish teachers that students have to learn and not study and hence **socialisation**, sports, exploration etc. are part of learning.

**Question No.20**

Marks

Bookmar

**Statement 1:** Finnish education system denies the fact that the students have a life outside school.

**Statement 2:** Finland's education policy is that the students have to study rather than to learn.

- (A)  Statement 1 is true and statement 2 is false
- (B)  Statement 1 is false and statement 2 is true
- (C)  Both the statements are true
- (D)  **Both the statements are false (Correct Answer)** (Chosen option)

**Question No.21**

Marks

Bookmar

According to the passage, what does the word 'socialisation' mean?

- (A)  **Integration (Correct Answer)** (Chosen option)
- (B)  Social Distancing
- (C)  Animosity
- (D)  Hatred

**Question No.22**

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What is the tone of the author?

- (A)  **Laudatory (Correct Answer)** (Chosen option)  
(B)  Humorous  
(C)  Emotional  
(D)  Sarcastic

### Case Study - 23 to 25

**Directions :** Read the passage carefully and answer the questions that follow.

Indonesia's tsunami has raised fears about the few dozen Javan rhinos still living in the world. There are believed to be fewer than 70 of the critically endangered species in Ujung Kulon National Park not far the volcano that triggered the killer wave. None of the animals are killed in the disaster but officials are warning that another deadly wave could slam into the stricken region. That is putting pressure on conservationists at the National Park to **ramp up** a longstanding plan to find a suitable secondary habitat for the rhinos. Plans to find a second home for the species have been in the works.

The shy creature once numbered in the thousands and roamed across Southeast Asia. But, like other rhino species across the world, poaching and human encroachment on its habitat has led to a dramatic population decline. The rhino horns are used in traditional Asian medicine fetching ever higher prices on the black market.

### Question No.23

Marks:

Bookmark

Why were the conservationists at the National Park planning to find a second habitat for the species?

- (A)  They are planning to renovate the old habitat  
(B)  Because there are volcanoes in Indonesia  
(C)  The rhinos did not get enough food in the old habitat  
(D)  **They fear that another deadly wave could wipe out the Javan rhinos species (Correct Answer)** (Chosen option)

### Question No.24

Marks:

Bookmark

According to the passage, why were the Javan rhinos poached?

- (A)  They are highly dangerous  
 (B)  **The rhinos' horns have medicinal value (Correct Answer)** (Chosen option)  
 (C)  They are edible  
 (D)  They were huge in numbers

### Question No.25

Marks:

Bookmark

According to the passage, what does the phrase 'ramp up' mean?

- (A)  Ebb (Chosen option)  
 (B)  Drop  
 (C)  Decline  
 (D)  **Increase (Correct Answer)**

### Odia Language - Odia Language

#### Case Study - 1 to 4

ଉତ୍ତମମାନସ୍ତା ଜୀବନ ଗୋଟିଏ ମହତ, ବୋଧ । ପୂର୍ବକାଳରେ ଏ ବୋଧ ଅନେକ ଲୋକ ବୋଧୁ ନ ଥିଲେ । ବର୍ତ୍ତମାନ ଅନେକ ଲୋକଙ୍କୁ କହିବାକୁ ହୁଏ । ଯେଉଁମାନେ ଶିକ୍ଷିତ ଅଟନ୍ତି, ସେମାନେ ଶାରୀରିକ ଶ୍ରମଠାରୁ ମାନସିକ ଶ୍ରମରେ ଅଧିକ ରତ, ସେମାନେ ବହୁତରେ ହେଉ ଅବା ଅଳ୍ପରେ ହେଉ, ଏ ବୋଧ ବହନ୍ତି । ସେମାନଙ୍କର ମନ ପ୍ରାୟ ସବୁବେଳେ ଏକପ୍ରକାର ଅନ୍ଧାକାରରେ ଆଚ୍ଛନ୍ନ ଥାଏ । ଥରେ ଥରେ ଏପରି ବିକାର ଉପସ୍ଥିତ ହୁଏ ଯେ, କିଛି ଭଲ ଲାଗେ ନାହିଁ ସଂସାର ଅସାର, ଜୀବନ ବିଡ଼ମ୍ବନା ବୋଧ ହୁଏ, ନାନାପ୍ରକାର ବିଭୀଷିକା ହୃଦୟରେ ନୃତ୍ୟ କରିଥାନ୍ତି । ଏପରି ମନର ଭାବ କବିର କଳ୍ପନା ଉଦ୍‌ଘାଟିତ କରେ, ଏହା ସତ୍ୟ, ମାତ୍ର ଏହା ବ୍ୟତୀତ ଏହାର ଆଉ କୌଣସି ଉପକାରିତା ନାହିଁ । କାର୍ଯ୍ୟକ୍ଷେତ୍ରରେ ଏପରି ଭାବ ଗୋଟିଏ ମହତ୍ ପ୍ରତିବନ୍ଧକ । ମନ ଭଲ ନଥିଲେ କାର୍ଯ୍ୟରେ ମନ କାହୁଁ ଲାଗିବ? ଏପରି ଭାବରେ ଅଧୀନ ହୋଇ ଲୋକେ ଯେ କାର୍ଯ୍ୟ ନକରନ୍ତି ଏହା ନୁହେଁ ମାତ୍ର କଳ ପରି କାର୍ଯ୍ୟ କରନ୍ତି, ଉତ୍ସାହ ନଥାଏ । ବାସ୍ତବରେ ଅପ୍ରଫୁଲ୍ଲତା ଗୋଟିଏ ମହତ୍ ବିଡ଼ମ୍ବନା । ସଂସାରରେ ପଦେ ପଦେ ବିପ୍ଳ, ପଦେ ପଦେ ବିରକ୍ତ ହେବାର ସହସ୍ର କାରଣ ଅଛି । ମନ ଦୃଢ଼ ଓ ପ୍ରଫୁଲ୍ଲ ନ ହେଲେ ବଞ୍ଚିବା କଠିନ ।

### Question No.1

Marks:

Bookmark

ବାସ୍ତବରେ ମଣିଷ ପାଇଁ କଣ ଗୋଟିଏ ମହତ୍ ବିଡ଼ମ୍ବନା?

- (A)  ବିସର୍ଣ୍ଣତା  
 (B)  **ଅପ୍ରଫୁଲ୍ଲତା (Correct Answer)** (Chosen option)

(C)  କଠିନତା

(D)  ପ୍ରଫୁଲ୍ଲତା

### Question No.2

ଲେଖକଙ୍କ ଦୃଷ୍ଟିରେ ମଣିଷ ଜୀବନ ପାଇଁ କଣ ଏକ ମହତ୍ତ୍ୱ ବୋଧ?

(A)  ଭଗ୍ନ ଶରୀରତା

(B)  ନିମ୍ନମାନସ୍ୱତା

(C)  ମାଟି ମନସ୍ୱତା

(D)  ଭଗ୍ନମାନସ୍ୱତା (Correct Answer) (Chosen option)

### Question No.3

କେଉଁମାନଙ୍କର ମନ ପ୍ରାୟ ସବୁବେଳେ ଏକ ପ୍ରକାର ଅନ୍ଧକାରରେ ଆଚ୍ଛନ୍ନ ଥାଏ?

(A)  ଗରିବ

(B)  ମୁଖ

(C)  ଶିକ୍ଷିତ (Correct Answer) (Chosen option)

(D)  ଧନିକ

### Question No.4

ଯେଉଁମାନେ ଶିକ୍ଷିତ ଅଟନ୍ତି ସେମାନେ କେଉଁ ଶ୍ରମରେ ଅଧିକ ରତ ?

(A)  ବାଟିକ

(B)  ମାନସିକ (Correct Answer) (Chosen option)

(C)  ଗାୟିକ

(D)  ଶାରୀରିକ

### Question No.5

'ମନ ଘର ଧରିବା'- ରୁଢ଼ିଚିର କେଉଁ ଅର୍ଥ ଠିକ ?

- (A)  ଅସୁବିଧାରେ ପଡ଼ି ସତର୍କ ହେବା (Correct Answer)
- (B)  ମନ ଶଙ୍କୁଚିତ ନ ହେବା
- (C)  ଘର ପ୍ରତି ଆକର୍ଷିତ ହେବା (Chosen option)
- (D)  ମନ ଘରେ ରହିବା

### Question No.6

'ଅକସ କରିବା'- ରୁଢ଼ିଚିର କେଉଁ ଅର୍ଥ ଠିକ ?

- (A)  ଅକଲ ଶିଖେଇବା
- (B)  ପ୍ରତିହିଂସା ମନୋଭାବ ପୋଷଣ (Correct Answer) (Chosen option)
- (C)  ବିଚାର କରିବା
- (D)  ବୁଦ୍ଧିହୀନ ହେବା

### Question No.7

ସୁଦର୍ଶନ ଆଚାର୍ଯ୍ୟ ମଧ୍ୟଯୁଗୀୟ କାବ୍ୟସାହିତ୍ୟରେ ପ୍ରବୀଣ ଅଟନ୍ତି । ରେଖାଙ୍କିତ ପଦଚିର କାରକ ନିର୍ଣ୍ଣୟ କର ।

- (A)  ଭାବାଧିକରଣ
- (B)  ସ୍ଥାନାଧିକରଣ
- (C)  ବିଷୟାଧିକରଣ (Correct Answer) (Chosen option)
- (D)  କାଳାଧିକରଣ

### Question No.8

ଠିକ ଶବ୍ଦଟି ଚିହ୍ନାଇ ଦିଅ ।

- (A)  ଶଶିଭୁଷଣ
- (B)  ଶଶୀଭୁଷଣ (Chosen option)

- (C)  ସଶିଭୂଷଣ  
(D)  ଶଶିଭୂଷଣ (Correct Answer)

### Question No.9

'ସଦୈବ' ଶବ୍ଦର ସଂଧିବିଚ୍ଛେଦ କର ।

- (A)  ସଦୈ+ବ  
(B)  ସ+ଦୈବ  
(C)  ସଦା+ଏବ (Correct Answer) (Chosen option)  
(D)  ସଦା+ଇବ

### Question No.10

'ଗଙ୍ଗା'- ଶବ୍ଦର ସମାର୍ଥବୋଧକ ଶବ୍ଦଟି କ'ଣ ?

- (A)  ପୟୋଦ  
(B)  ଜାହ୍ନବୀ (Correct Answer) (Chosen option)  
(C)  ପାଦପ  
(D)  ବାରିବାହ

### Question No.11

'ଯୋଗ' - ଶବ୍ଦର ବିପରୀତ ଶବ୍ଦ କ'ଣ ?

- (A)  ବିଭକ୍ତ  
(B)  ବିଯୋଗ (Correct Answer) (Chosen option)  
(C)  ବିଭୁକ୍ତ  
(D)  ବିଯୁକ୍ତ

### Question No.12

ଠିକ ଶବ୍ଦଟି ଚିହ୍ନାଇ ଦିଅ ।

- (A)  ଉପରିଲିଖିତ (Correct Answer)
- (B)  ଉପରଲିଖିତ (Chosen option)
- (C)  ଉପରେ ଉଲ୍ଲିଖିତ
- (D)  ଉତ୍ତରଲିଖିତ

### Question No.13

'ଅସିଆ କାଳର ମସିହା'- ରୁଢ଼ିଟିର କେଉଁ ଅର୍ଥ ଠିକ ?

- (A)  ଅଣୀ ମସିହାର ଘଟଣା
- (B)  କାଳାନୁକ୍ରମେ ହିସାବ କରିବା
- (C)  ଖୁବ୍ ଆଧୁନିକ
- (D)  ଅତି ପୁରୁଣା (Correct Answer) (Chosen option)

### Question No.14

'ଦେବୀ' ଓ 'ଅଛନ୍ନା' ଶବ୍ଦର ସଂଧ୍ୟୁକ୍ତଲେ କଣ ହେବ?

- (A)  ଦେବିଚ୍ଚନ୍ନା
- (B)  ଦେବ୍ୟାଚ୍ଚନ୍ନା (Chosen option)
- (C)  ଦେବ୍ୟଚ୍ଚନ୍ନା (Correct Answer)
- (D)  ଦେବୀଚ୍ଚନ୍ନା

### Question No.15

'ଲୋଭୀ' - ଶବ୍ଦର ବିପରୀତ ଶବ୍ଦ କ'ଣ ?

- (A)  ନିର୍ଲୋଭ (Correct Answer) (Chosen option)
- (B)  ଲୋଭନୀୟ



- (C)  ଲୋଭଯୁକ୍ତ
- (D)  ନିର୍ଲୋଭୀ

**Question No.16**

'ସୁନ୍ଦର'ର ସ୍ତ୍ରୀଲିଙ୍ଗ କ'ଣ ?

- (A)  ସୌନ୍ଦର୍ଯ୍ୟମୟୀ
- (B)  ସୁଶ୍ରୀ
- (C)  ସୁନ୍ଦରୀ (Correct Answer) (Chosen option)
- (D)  ସୁଶୋଭିନୀ

**Question No.17**

'ଉଚ୍ଚକପାଳୀ'- କେଉଁ ସମାସ ?

- (A)  ବହୁବ୍ରୀହି (Correct Answer) (Chosen option)
- (B)  କର୍ମଧାରୟ
- (C)  ତତ୍ ପୁରୁଷ
- (D)  ଅବ୍ୟୟୀଭାବ

**Question No.18**

ମା' ପୁଅକୁ ଭାତ ଖୁଆଇଲେ । ରେଖାଙ୍କିତ ପଦଟି କି ପ୍ରକାର କର୍ତ୍ତା?

- (A)  ପ୍ରୟୋଜକ (Chosen option)
- (B)  ପ୍ରୟୋଜ୍ୟ (Correct Answer)
- (C)  ଉତ୍ତ୍ୟ
- (D)  ମୁଖ୍ୟ

**Question No.19**

- (C)  **ପଞ୍ଚମୀ (Correct Answer)** (Chosen option)  
(D)  ଷଷ୍ଠୀ

### Question No.23

ମୋଡ଼େ ଆଇଁଷ ରୁଚେ । ରେଖାଙ୍କିତ ପଦର ବିଭକ୍ତି ନିର୍ଣ୍ଣୟ କର ।

- (A)  **ଚତୁର୍ଥୀ (Correct Answer)**  
(B)  ତୃତୀୟା  
(C)  ପ୍ରଥମା  
(D)  ଦ୍ଵିତୀୟା (Chosen option)

### Question No.24

'ରୋଗୀ' - ଶବ୍ଦର ବିପରିତ ଶବ୍ଦ କ'ଣ ?

- (A)  ନିଃରୋଗୀ  
(B)  ନିରୋଗୀ  
(C)  ଭୋଗୀ  
(D)  **ନିରୋଗ (Correct Answer)** (Chosen option)

### Question No.25

'ମଧାହ୍ନ' ଶବ୍ଦଟିର ସମାସ ନିରୂପଣ କର ।

- (A)  ନଞ୍ଜ ତତ୍ପୁରୁଷ  
(B)  କର୍ମଧାରୟ (Chosen option)  
(C)  **ଷଷ୍ଠୀ ତତ୍ପୁରୁଷ (Correct Answer)**  
(D)  ବହୁବ୍ରୀହି

General Studies - General Studies

'ଦେବତା'- ଶବ୍ଦର ସମାର୍ଥବୋଧକ ଶବ୍ଦଟି କ'ଣ ?

- (A)  ସାରସ  
 (B)  ବିବସ୍ତାନ (Chosen option)  
 (C)  ଅମର (Correct Answer)  
 (D)  କାସାର

### Question No.20

'ଦମ୍ପତି'- କେଉଁ ସମାସ ?

- (A)  ଅବ୍ୟୟୀଭାବ  
 (B)  ବହୁବ୍ରୀହି  
 (C)  ଦ୍ୱନ୍ଦ୍ୱ (Correct Answer) (Chosen option)  
 (D)  କର୍ମଧାରୟ

### Question No.21

'ନିମିତ୍ତାର୍ଥେ' କେଉଁ ବିଭକ୍ତି ହୁଏ ?

- (A)  ପଞ୍ଚମୀ  
 (B)  ଦ୍ୱିତୀୟା  
 (C)  ଚତୁର୍ଥୀ (Correct Answer) (Chosen option)  
 (D)  ଷଷ୍ଠୀ

### Question No.22

'ପୁରୀରୁ କୋଣାର୍କ ତିରିଶି ମାଇଲ'- ବାକ୍ୟରେ ଥିବା 'ପୁରୀରୁ' କେଉଁ ବିଭକ୍ତି ?

- (A)  ଚତୁର୍ଥୀ  
 (B)  ସପ୍ତମୀ

**Question No.1**

India's first International Arbitration and Mediation Centre was jointly inaugurated by Chief Justice of India, N.V. Ramana, and \_\_\_\_\_.

- (A)  Y.S. Jagan Mohan Reddy
- (B)  Bhupendra Patel
- (C)  Narendra Modi (Chosen option)
- (D)  **K. Chandrasekhar Rao (Correct Answer)**

**Question No.2**

Which of the following cities is referred as "IT capital of India" because of its role as the nation's leading information technology (IT) exporter?

- (A)  **Bengaluru (Correct Answer)** (Chosen option)
- (B)  Kanpur
- (C)  Ranchi
- (D)  Lucknow

**Question No.3**

Where is the Headquarters of Comprehensive Nuclear-Test-Ban Treaty Organization(CTBTO) located?

- (A)  Bonn
- (B)  Paris
- (C)  London
- (D)  **Vienna (Correct Answer)** (Chosen option)

**Question No.4**

Which of the following is a fresh water lake in India?

- (A)  Pulicat lake
-

- (B) Sambhar Lake (Chosen option)
- (C)  Lonar Lake
- (D)  **Loktak Lake (Correct Answer)**

#### Question No.5

Which is the third tallest mountain in the world?

- (A)  Nanda Devi
- (B)  Trisul
- (C)  Kamet
- (D)  **Kangchenjunga (Correct Answer)** (Chosen option)

#### Question No.6

Who among the following has been recently appointed as the brand advisor for the Government of Arunachal Pradesh?

- (A)  Ranveer Singh (Chosen option)
- (B)  Ranbir Kapoor
- (C)  Sanjay Dutt
- (D)  **Rahul Mitra (Correct Answer)**

#### Question No.7

In which year was the Indian National Congress started?

- (A)  1858
- (B)  **1885 (Correct Answer)** (Chosen option)
- (C)  1905
- (D)  1907

#### Question No.8

Who among the following was the inventor of Printing Press?

- (A)  Karl Benz
- (B)  Desiderius Erasmus
- (C)  **Johann Gutenberg (Correct Answer)**
- (D)  Martin Luther (Chosen option)

#### Question No.9

Where is the Headquarters of UNFCCC Secretariat (UN Climate Change) located?

- (A)  London
- (B)  Paris (Chosen option)
- (C)  New York
- (D)  **Bonn (Correct Answer)**

#### Question No.10

The Commonwealth Human Rights Initiative (CHRI) is an independent, non-partisan, international non-governmental organization, headquartered in:

- (A)  Sydney
- (B)  London (Chosen option)
- (C)  New York
- (D)  **New Delhi (Correct Answer)**

#### Question No.11

The Great Himalayan National Park is located in which of the following States?

- (A)  Arunachal Pradesh
- (B)  **Himachal Pradesh (Correct Answer)** (Chosen option)
- (C)  Sikkim
- (D)  Uttarakhand

**Question No.12**

As per India State of Forest Report 2021, which State has the largest Forest Cover in the Country?(Area-wise)

- (A)  **Madhya Pradesh (Correct Answer)** (Chosen option)
- (B)  Uttarakhand
- (C)  Arunachal Pradesh
- (D)  Himachal Pradesh

**Question No.13**

Where is the Headquarters of United Nations High Commissioner for Refugees (UNHCR) located?

- (A)  London
- (B)  Paris
- (C)  Vienna
- (D)  **Geneva (Correct Answer)** (Chosen option)

**Question No.14**

Where is the Badami caves situated?

- (A)  Uttar Pradesh
- (B)  **Karnataka (Correct Answer)** (Chosen option)
- (C)  Maharashtra
- (D)  Bihar

**Question No.15**

Who among the following discovered Cathode Rays?

- (A)  J.J Thomson (Chosen option)
- (B)  **William Crookes (Correct Answer)**

- (C)  Roentgen
- (D)  Christian Huygens

**Question No.16**

Who among the following discovered Self-induction?

- (A)  Michael Faraday (Chosen option)
- (B)  Andre Ampere
- (C)  **Joseph Henry (Correct Answer)**
- (D)  Rudolf Virchow

**Question No.17**

Which is the Westernmost point of Indian Mainland?

- (A)  Kibithu
- (B)  **Ghuar Mota (Correct Answer)** (Chosen option)
- (C)  Indira Point
- (D)  False Divi Point

**Question No.18**

The book 'The Wings of Fire' is an autobiography of \_\_\_\_\_.

- (A)  **A.P.J.Abdul Kalam (Correct Answer)** (Chosen option)
- (B)  R.K. Narayan
- (C)  Abul Kalam Azad
- (D)  Amartya Sen

**Question No.19**

Who released the 'India State of Forest Report 2021'?

- (A)  Prahalad Singh Patel



- (B)  **Bhupender Yadav (Correct Answer)**
- (C)  Ashwini Kumar Choubey
- (D)  Dr. Jitendra Singh (Chosen option)

**Question No.20**

Who among the following invented steam engine that contributed substantially to the Industrial Revolution?

- (A)  Samuel Slater
- (B)  Eli Whitney
- (C)  Robert Fulton
- (D)  **James Watt (Correct Answer)** (Chosen option)

**Question No.21**

Who among the following has been announced as the brand ambassador for Disney Byju's Early Learn App?

- (A)  Srikanth Kidambi
- (B)  **Neeraj Chopra (Correct Answer)** (Chosen option)
- (C)  Saina Nehwal
- (D)  Mirabai Chanu

**Question No.22**

During whose reign Hiuen Tsang, a Chinese traveller visited India?

- (A)  Chandragupta Maurya (Chosen option)
- (B)  Ashoka
- (C)  Vikramaditya
- (D)  **Harshavardhan (Correct Answer)**

**Question No.23**

In 1498, Vasco da Gama landed in India at which place?

- (A)  Madras
- (B)  Calicut (Correct Answer) (Chosen option)
- (C)  Calcutta
- (D)  Surat

#### Question No.24

Who among the following discovered the law of elasticity?

- (A)  J.J. Thomson
- (B)  Robert Hooke (Correct Answer)
- (C)  Robert Brown
- (D)  Willam Henry (Chosen option)

#### Question No.25

Which of the following books has been written by Arundhati Roy?

- (A)  Unhappy India
- (B)  Midnight's Children
- (C)  The God of Small Things (Correct Answer) (Chosen option)
- (D)  A Suitable Boy

#### Question No.26

Amartya Sen, a nobel laureate, is a distinguished personality in which of the following fields?

- (A)  Medicine
- (B)  Sports
- (C)  Film Industry
- (D)  Economics (Correct Answer) (Chosen option)

**Question No.27**

Palghat Gap is located between which of the following hills?

- (A)  **Nilgiri and Anaimalai Hills (Correct Answer)** (Chosen option)
- (B)  Anaimalai and Cardamom Hills
- (C)  Nallamala and Seshachalam Hills
- (D)  Nallamala and Palkonda Hills

**Question No.28**

Guru Shikhar is the highest Peak in which of the following Mountain Ranges?

- (A)  **Aravalli Range (Correct Answer)** (Chosen option)
- (B)  Vindhya Range
- (C)  Ajanta Range
- (D)  Satpura Range

**Question No.29**

Alibaug white Onion of which state received the GI Tag?

- (A)  **Maharashtra (Correct Answer)** (Chosen option)
- (B)  Madhya Pradesh
- (C)  Karnataka
- (D)  Gujarat

**Question No.30**

A.P.J.Abdul Kalam is a distinguished personality in which of the following fields?

- (A)  Dancing
- (B)  **Space Research (Correct Answer)** (Chosen option)
- (C)  Medicine

(D)  Sports

**Question No.31**

Who among the following first discovered human blood groups(ABO)?

- (A)  Luc Simon
- (B)  Darrell Salk
- (C)  **Karl Landsteiner (Correct Answer)** (Chosen option)
- (D)  Albert Sabin

**Question No.32**

Where is the Headquarters of International Monetary Fund(IMF) located?

- (A)  London
- (B)  Paris
- (C)  **Washington, DC (Correct Answer)** (Chosen option)
- (D)  New York

**Question No.33**

Who among the following discovered Laser?

- (A)  Hideki Yukawa (Chosen option)
- (B)  **C.H Townes (Correct Answer)**
- (C)  Abdus Salam
- (D)  James Chadwick

**Question No.34**

The Assam Government conferred the prestigious 'Asom Baibhav 2021 Award' to who among the following?

- (A)  Nandan Nilekani

- (B)  Anand Mahindra
- (C)  **Ratan Tata (Correct Answer)** (Chosen option)
- (D)  Azim Premji

**Question No.35**

'Goal' is an autobiography of \_\_\_\_\_.

- (A)  Milkha Singh
- (B)  **Dhyan Chand (Correct Answer)** (Chosen option)
- (C)  Sania Mirza
- (D)  Sachin Tendulkar

**Question No.36**

Jayakwadi Dam is constructed on which of the following rivers?

- (A)  **Godavari River (Correct Answer)**
- (B)  Krishna River (Chosen option)
- (C)  Mahanadi River
- (D)  Periyar River

**Question No.37**

When did India conduct Pokhran I nuclear test?

- (A)  1984 (Chosen option)
- (B)  **1974 (Correct Answer)**
- (C)  1954
- (D)  1964

**Question No.38**

Who among the following discovered the atomic nucleus?

- (A)  J.J Thomson
- (B)  Henry Becquerel
- (C)  Elton Mayo
- (D)  **Ernest Rutherford (Correct Answer)** (Chosen option)

**Question No.39**

Who among the following developed Vaccine for anthrax?

- (A)  **Louis Pasteur (Correct Answer)**
- (B)  Alexander Fleming (Chosen option)
- (C)  Joseph Lister
- (D)  Charles Darwin

**Question No.40**

During which phase of the freedom movement was Mahatma Gandhi detained in Aga Khan palace?

- (A)  **Quit India Movement (Correct Answer)**
- (B)  Non Cooperation Movement
- (C)  Civil Disobedience Movement (Chosen option)
- (D)  Swadeshi Movement

**Question No.41**

Mettur Dam is Constructed on which of the following rivers?

- (A)  Godavari River (Chosen option)
- (B)  **Kaveri River (Correct Answer)**
- (C)  Krishna River
- (D)  Mahanadi River

**Question No.42**

"PANEX-21" is a multi-agency exercise of the BIMSTEC (Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation) countries held in:

- (A)  Kochi (Chosen option)
- (B)  New Delhi
- (C)  Dehradun
- (D)  **Pune (Correct Answer)**

#### Question No.43

Where is the Headquarters of the International Atomic Energy Agency(IAEA) located?

- (A)  London
- (B)  New York (Chosen option)
- (C)  Paris
- (D)  **Vienna (Correct Answer)**

#### Question No.44

Chinnor rice of which state received GI Tag?

- (A)  Maharashtra
- (B)  West Bengal
- (C)  Kerala (Chosen option)
- (D)  **Madhya Pardesh (Correct Answer)**

#### Question No.45

Baglihar Dam is constructed on which of the following rivers?

- (A)  Ravi
- (B)  Beas
- (C)  **Chenab (Correct Answer)** (Chosen option)
- (D)  Satluj

**Question No.46**

Who among the following was the author of the book 'The Social Contract'?

- (A)  Karl Marx (Chosen option)
- (B)  **Jean-Jacques Rousseau (Correct Answer)**
- (C)  Amartya Sen
- (D)  Voltaire

**Question No.47**

As per India State of Forest Report 2021, which State has the highest forest cover as percentage of its total geographical area?

- (A)  Manipur
- (B)  **Mizoram (Correct Answer) (Chosen option)**
- (C)  Meghalaya
- (D)  Arunachal Pradesh

**Question No.48**

On which date did Mahatma Gandhi return to India from South Africa?

- (A)  **9th January (Correct Answer) (Chosen option)**
- (B)  30th January
- (C)  12th January
- (D)  2nd February

**Question No.49**

Where is the Ajanta caves situated?

- (A)  **Maharashtra (Correct Answer) (Chosen option)**
- (B)  West Bengal



- (C)  Bihar
- (D)  Uttar Pradesh

**Question No.50**

Submarines were first built by:

- (A)  Granville Woods
- (B)  Dirck Coornhert (Chosen option)
- (C)  Robert Boyle
- (D)  **Cornelis Drebbel (Correct Answer)**



Roll No: 1919132

Registration No: SCE1 2020627

Registered Photo

Name

Exam Date: 08-Feb-2022

Exam Time: 14:00-15:30

Post Name: Paper - II

**Mathematics - Mathematics**

**Question No.1**

Find the cube root of 46656 by prime factorisation method.

- (A)  40
- (B)  36 (Correct Answer)
- (C)  38
- (D)  42

**Question No.2**

What value will come in the place of question mark(?) in the following equation?

$$\sqrt{2704} + \sqrt{2809} = ?$$

- (A)  100
- (B)  110
- (C)  105 (Correct Answer)
- (D)  95

**Question No.3**

X began business with Rs.44000 and was joined afterwards by Y with Rs.33000. Find after how many months did Y join, if the profits at the end of the year were divided in the

ratio of 8:3.

- (A)  12
- (B)  10
- (C)  6 (Correct Answer)
- (D)  8

#### Question No.4

If the average scores of three teams of 135, 145 and 155 members are 135, 145 and 155 respectively, then find the average score of all the members.(rounding off to two decimals)

- (A)  145.46 (Correct Answer)
- (B)  155.46
- (C)  165.46
- (D)  135.46

#### Question No.5

If  $a = 28$  and  $b = 15$ , then find the value of  $a^2 - b^2$ .

- (A)  569
- (B)  579
- (C)  559 (Correct Answer)
- (D)  549

#### Question No.6

The salary of A, B and C are in the ratio of 3:2:5. If their total salary is Rs.1260, find the salary received by C.

- (A)  660
- (B)  640
- (C)  630 (Correct Answer)

(D)  650

### Question No.7

Find the simple interest on Rs.5400 at 4% per annum for 15 years.(in Rs)

- (A)  3140  
(B)  3340  
(C)  3240 (Correct Answer)  
(D)  3440

### Question No.8

Find the sum of all the interior angle of a polygon having 41 sides. (In degree)

- (A)  6920  
(B)  7120  
(C)  7020 (Correct Answer)  
(D)  7220

### Question No.9

If  $11a=12b$  and  $7b=11c$ , find a:b:c.

- (A)  14:11:7  
(B)  12:11:7 (Correct Answer)  
(C)  13:11:7  
(D)  15:11:7

### Question No.10

If 20% of a certain number is 1460, then what is 85% of that number?

- (A)  6405  
(B)  6305

- (C)  6205 (Correct Answer) (Chosen option)  
(D)  6505

**Question No.11**

A number when divided by 36, 24 and 16, leaves the remainder 11 in each case. Find the smallest possible number.

- (A)  120  
(B)  140 (Correct Answer)  
(C)  180  
(D)  160

**Question No.12**

The ratio of two numbers is 6:7 and their sum is 429. Find the greater of the two numbers.

- (A)  221  
(B)  251  
(C)  231 (Correct Answer) (Chosen option)  
(D)  241

**Question No.13**

Find the LCM of  $\frac{6}{7}$  and  $\frac{8}{9}$

- (A)   $\frac{33}{2}$   
(B)   $\frac{35}{2}$  (Correct Answer)  
(C)   $\frac{25}{2}$   
(D)   $\frac{27}{2}$

**Question No.14**

Which of the following is a perfect cube?

- (A)  9361
- (B)  9461
- (C)  9561
- (D)  9261 (Correct Answer)

#### Question No.15

15625 plants are to be planted in a garden in such a way that each row contains as many plants as the number of rows. Find the number of rows and the number of plants in each row

- (A)  125 (Correct Answer) (Chosen option)
- (B)  130
- (C)  135
- (D)  120

#### Question No.16

By selling a table for Rs.1920, a shopkeeper loses 20%. At what price should he sell it to gain 20%?(in Rs.)

- (A)  2880 (Correct Answer) (Chosen option)
- (B)  2850
- (C)  2860
- (D)  2870

#### Question No.17

The LCM of two numbers is 270 and their H.C.F is 9, find the product of two numbers.

- (A)  1012 (Correct Answer)
- (B)  1018
- (C)  1014

(D)  1016

### Question No.18

Which of the following is divisible by 3?

- (A)  378655  
(B)  378652  
(C)  378653  
(D)  **378654 (Correct Answer)** (Chosen option)

### Question No.19

Find the smallest number by which 10368 must be divided to obtain a perfect cube.

- (A)  **6 (Correct Answer)**  
(B)  4  
(C)  10  
(D)  8

### Question No.20

From a point X on a level ground, the angle of elevation of the top tower is  $30^\circ$ . If the tower is 1200 m high, find the distance of point X from the foot of the tower.(in m and use  $\sqrt{3} = 1.73$ )

- (A)  1976  
(B)  **2076 (Correct Answer)**  
(C)  2176  
(D)  2276

### Question No.21

From a point X on a level ground, the angle of elevation of the top tower is  $30^\circ$ . If the

height of the tower is 1600 m, find the distance between the foot of the tower and point X.(in m and use  $\sqrt{3} = 1.73$ )

- (A)  2968  
(B)  2868  
(C)  2768 (Correct Answer)  
(D)  2668

#### Question No.22

Find the value of  $a^3+b^3$ , given that  $3a^2b+3ab^2= 19890$  and  $a+b = 30$ .

- (A)  7210  
(B)  7110 (Correct Answer) (Chosen option)  
(C)  7010  
(D)  6910

#### Question No.23

If 72% of a number is added to 336, then the result is the number itself. Find the number.

- (A)  1200 (Correct Answer) (Chosen option)  
(B)  1400  
(C)  1300  
(D)  1100

#### Question No.24

A sum of money at simple interest amounts to Rs.5740 in 4 years and Rs.6150 in 5 years. Find the sum.(in Rs)

- (A)  4000  
(B)  4300  
(C)  4200  
(D)  4100 (Correct Answer) (Chosen option)



**Question No.25**

Find the smallest square number that is divisible by each of the numbers 4, 7 and 9.

- (A)  1784
- (B)  **1764 (Correct Answer)**
- (C)  1754
- (D)  1774

**Question No.26**

Let's consider the data:

36, 31, 28, 27, 32, 41, 32, 35, 38

What is the median?

- (A)  34
- (B)  30
- (C)  36
- (D)  **32 (Correct Answer) (Chosen option)**

**Question No.27**

At the end of two years what will be the compound interest at the rate of 10% p.a. on an amount of Rs.6100?

- (A)  **1281 (Correct Answer)**
- (B)  1381
- (C)  1081
- (D)  1181

**Question No.28**

If the mean of numbers 45, 59, 95, 121 and X is 77, what is the mean of 65, 79, 115, 141 and x?

- (A)  93 (Correct Answer) (Chosen option)
- (B)  97
- (C)  95
- (D)  99

**Question No.29**

A, B, C together started a business. A invested Rs.6100 for 5 months, B invested Rs.7100 for 4 months and C Rs.8100 for 3 months. If they get a total profit of Rs.12480. Find the share of A. (In Rs.)

- (A)  4475
- (B)  4775
- (C)  4575 (Correct Answer)
- (D)  4675

**Question No.30**

A and B invest in a business in the ratio 2:3. If 5% of the total profit goes to charity and A's share is Rs. 950, find the total profit. (In Rs.)

- (A)  2500 (Correct Answer) (Chosen option)
- (B)  2700
- (C)  2600
- (D)  2400

**Question No.31**

The ratio of three numbers is 12:13:14 and their sum is 1872. Find the second number of the three numbers.

- (A)  624 (Correct Answer) (Chosen option)
- (B)  644
- (C)  634
-

(D) 614

### Question No.32

Find the remainder, when 643653 is divided by 9.

- (A)  2  
(B)  3  
(C)  5  
(D)  0 (Correct Answer) (Chosen option)

### Question No.33

In a moderately asymmetrical series, the values of arithmetic mean and median are 23 and 22.5 respectively. What is the value of the mode?

- (A)  19.5  
(B)  25.5  
(C)  23.5  
(D)  21.5 (Correct Answer)

### Question No.34

Find the sum invested at compound interest at 10% per annum which will amount to Rs.2541 in 2 years.

- (A)  2700  
(B)  2100 (Correct Answer) (Chosen option)  
(C)  2500  
(D)  2300

### Question No.35

A dealer bought a washing machine for Rs.18200 and sold at a gain of 10%. Find its

selling price.(in Rs)

- (A)  20020 (Correct Answer) (Chosen option)
- (B)  19620
- (C)  19820
- (D)  20220

### Question No.36

Find the greatest three digit number which is divisible by 12, 36 and 48.

- (A)  864 (Correct Answer)
- (B)  844
- (C)  834
- (D)  854

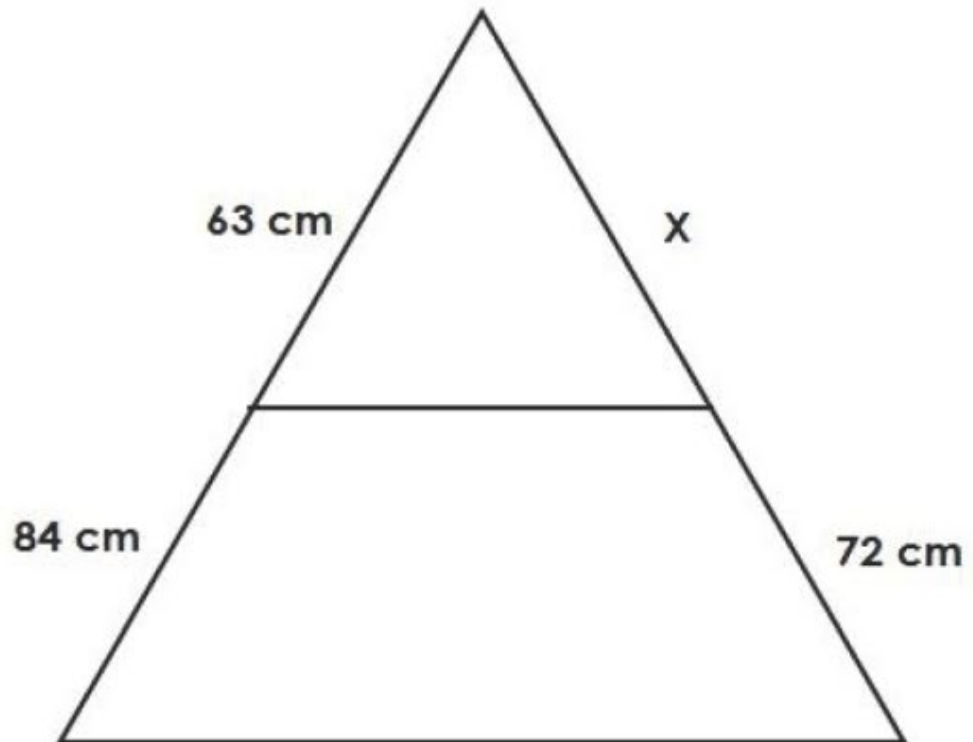
### Question No.37

Find the smallest number by which 3528 must be multiplied to obtain a perfect cube.

- (A)  23
- (B)  25
- (C)  21 (Correct Answer)
- (D)  19

### Question No.38

From the given figure, find X. (In cm)



- (A)  56  
(B)  60  
(C)  **54 (Correct Answer)** (Chosen option)  
(D)  58

### Question No.39

Which of the following numbers is divisible by 12?

- (A)  **26784 (Correct Answer)** (Chosen option)  
(B)  26785  
(C)  26782

(D) 26783

#### Question No.40

Given  $a^2 - b^2 = 936$  and  $a + b = 234$ , then find the value of  $a - b$ .

(A)  4 (Correct Answer) (Chosen option)

(B)  3

(C)  1

(D)  2

#### Question No.41

Find the value of  $a^2 + b^2$ , given  $(a + b)^2 = 3136$  and  $ab = 783$ .

(A)  1670

(B)  1470

(C)  1570 (Correct Answer) (Chosen option)

(D)  1770

#### Question No.42

A right angled triangle has a height 'a = 123 cm', base 'b = 164 cm' and hypotenuse 'c'. Find the value of c. (In cm)

(A)  215

(B)  205 (Correct Answer) (Chosen option)

(C)  200

(D)  210

#### Question No.43

A, B and C invested Rs.9150, Rs.7320 and Rs.5490 respectively, in a partnership business. Find the share of A in profit of Rs.3000 after a year. (In Rs.)

- (A)  1450
- (B)  1250 (Correct Answer)
- (C)  1150
- (D)  1350

**Question No.44**

The average weight of X, Y and Z is 121 kg. If the average weight of X and Y is 116 kg and that of Y and Z is 126 kg, then find the weight of Y.

- (A)  123
- (B)  125
- (C)  121 (Correct Answer) (Chosen option)
- (D)  127

**Question No.45**

Find the least number with which you would divide 7350, to get a perfect square.

- (A)  4
- (B)  6 (Correct Answer)
- (C)  2
- (D)  8

**Question No.46**

A mobile is bought for Rs.4200 and sold at Rs.4620. Find the gain percentage.

- (A)  14
- (B)  12
- (C)  10 (Correct Answer) (Chosen option)
- (D)  8

**Question No.47**

Find the mode.

57, 65, 49, 57, 53, 61, 53, 61, 57

- (A)  61
- (B)  **57 (Correct Answer)**
- (C)  55
- (D)  59

**Question No.48**

Find the unit digit in the product  $(1423 \times 2937 \times 4297 \times 9313)$ .

- (A)  2
- (B)  0
- (C)  3
- (D)  **1 (Correct Answer)** (Chosen option)

**Question No.49**

Two supplementary angles are in the ratio 4:5. Find the smaller angle measures. (In degree)

- (A)  70
- (B)  **80 (Correct Answer)** (Chosen option)
- (C)  85
- (D)  75

**Question No.50**

An article is bought for Rs.23000 and sold at a loss of 10%. Find its selling price.(in Rs)

- (A)  20900
- (B)  **20700 (Correct Answer)** (Chosen option)
- (C)  20500



(D)  21000

### General Science - General Science

#### Question No.1

Which of the following vaccines is produced from yeast?

- (A)  MMR Vaccine
- (B)  Rabies Vaccine
- (C)  **Hepatitis B vaccine (Correct Answer)**
- (D)  Rubella Vaccine

#### Question No.2

Which of the following mosquitos spreads dengue and Chikungunya?

- (A)  **Aedes Mosquito (Correct Answer)** (Chosen option)
- (B)  House mosquito
- (C)  Yellow fever mosquito
- (D)  Asian tiger mosquito

#### Question No.3

Which one of the following is a micronutrient fertilizer?

- (A)  Potassium chloride
- (B)  **Ferrous sulphate (Correct Answer)**
- (C)  Magnesium sulphate (Chosen option)
- (D)  Calcium sulphate

#### Question No.4

Which of the Phylum exhibit the property of bioluminescence?

- (A)  **Ctenophores (Correct Answer)**

- (B)  Annelida
- (C)  Platyhelminthes
- (D)  Aschelminthes

#### Question No.5

Who among the following is a German Botanist?

- (A)  "Robert Hooke" (Chosen option)
- (B)  "**Matthias Schleiden**" (Correct Answer)
- (C)  Theodor Schwann"
- (D)  "Robert Brown"

#### Question No.6

Which of the following terms refers to the number and types of organisms present on earth?

- (A)  **Biodiversity** (Correct Answer)
- (B)  Classification (Chosen option)
- (C)  Systematics
- (D)  Nomenclature

#### Question No.7

What is the sound which is produced due to a mixture of several frequencies called?

- (A)  Tone
- (B)  **Note** (Correct Answer)
- (C)  Noise
- (D)  Song (Chosen option)

#### Question No.8

Which of the following has a complete digestive system?

- (A)  Ctenophora
- (B)  Porifera
- (C)  **Aschelminthes (Correct Answer)**
- (D)  Platyhelminthes (Chosen option)

#### Question No.9

What is the full form of MRI?

- (A)  Mental Resonance Immunity
- (B)  **Magnetic Resonance Imaging (Correct Answer)** (Chosen option)
- (C)  Malignant Resonance Imaging
- (D)  Magnetic Resonance Immunity

#### Question No.10

What is transferred in the fallopian tube in assisted reproductive technology after in-vitro fertilization?

- (A)  Morula in 8-24 celled stage is transplanted
- (B)  Blastula is transplanted
- (C)  Embryo up to 24 blastomeres
- (D)  **Embryo up to 8 blastomeres (Correct Answer)** (Chosen option)

#### Question No.11

Which among the following is an elaborate network of filamentous proteinaceous structures present in the cytoplasm?

- (A)  Flagella (Chosen option)
- (B)  Ribosomes
- (C)  Cilia
- (D)  **Cytoskeleton (Correct Answer)**

**Question No.12**

How much percentage of lipids is present in the cell membrane of an erythrocyte?

- (A)  Seventy
- (B)  Twenty
- (C)  Ninety
- (D)  **Forty (Correct Answer)**

**Question No.13**

Which of the following is an animal hormone?

- (A)  Cytokinin (Chosen option)
- (B)  Auxin
- (C)  Gibberellins
- (D)  **Adrenaline (Correct Answer)**

**Question No.14**

What is the common name of  $\text{Na}_2\text{CO}_3$ ?

- (A)  Baking Soda (Chosen option)
- (B)  Bleaching Powder
- (C)  **Washing Soda (Correct Answer)**
- (D)  Caustic Soda

**Question No.15**

Which of the following units is used to express the wavelength?

- (A)   $\text{m}^{-1}$
- (B)  Hz
- (C)  **m (Correct Answer)**

(D)  Hz<sup>-1</sup> (Chosen option)

#### Question No.16

What is the point at which an ideal lever (a light rod of negligible mass) pivoted along its length known as?

- (A)  Momentum  
(B)  **Fulcrum (Correct Answer)**  
(C)  Inductance  
(D)  Capacitance

#### Question No.17

Which of the following is not an example of compounds formed by combination of group 12 and 16 of modern periodic table?

- (A)  **GaAs (Correct Answer)**  
(B)  HgTe  
(C)  ZnS  
(D)  CdSe

#### Question No.18

What is the SI unit of Luminous Intensity I?

- (A)  **Candela (Correct Answer) (Chosen option)**  
(B)  Watt / Hz  
(C)  Steradian  
(D)  Lumen

#### Question No.19

Which of the following relations is right when resistors are in series arrangement in a

circuit?

- (A)   $1/V = 1/V_1 + 1/V_2 + 1/V_3$
- (B)   $I = I_1 + I_2 + I_3$
- (C)   **$R = R_1 + R_2 + R_3$  (Correct Answer)** (Chosen option)
- (D)   $1/R = 1/R_1 + 1/R_2 + 1/R_3$

#### Question No.20

What is the value of product of Angular frequency and period of oscillation of a wave?

- (A)   **$2\pi$  (Correct Answer)** (Chosen option)
- (B)   $3\pi$
- (C)   $4\pi$
- (D)   $5\pi$

#### Question No.21

Which of the following is the process by which organisms are grouped into convenient categories based on some easily observable characters?

- (A)  Identification
- (B)  Nomenclature
- (C)  **Classification (Correct Answer)** (Chosen option)
- (D)  Systematics

#### Question No.22

In the Newton's gravitational law expression, what does G indicate?

- (A)  Universal Galileo Constant
- (B)  Universal Newton's constant
- (C)  **Universal Gravitational Constant (Correct Answer)** (Chosen option)
- (D)  Universal Kepler constant

**Question No.23**

What is the time taken for the decay of one half of the initial number of nuclei present in a radioactive sample known as?

- (A)  Decay constant
- (B)  Mean life
- (C)  Mass time period
- (D)  **Half life (Correct Answer)** (Chosen option)

**Question No.24**

Where does a magnetic compass needle point when allowed to rotate about a horizontal axis at the magnetic north pole point of the earth's surface?

- (A)  The compass needle keeps rotating in clockwise direction
- (B)  The compass needle makes no significant movement
- (C)  The compass needle points upwards (Chosen option)
- (D)  **The compass needle points downwards (Correct Answer)**

**Question No.25**

Regarding the internal energy of the molecule, which of the following statements is correct?

- (A)  It is the sum of the vibrational and rotational energy
- (B)  Its absolute value can be successfully calculated
- (C)  **Its absolute value cannot be determined (Correct Answer)**
- (D)  None of the above

**Question No.26**

The method of irrigation for lowland rice is \_\_\_\_\_.

- (A)  Check basin (Chosen option)
- (B)  Basin

- (C)  Flooding (Correct Answer)
- (D)  Furrow

**Question No.27**

In fluids, what is the ratio of shearing stress to the strain rate called?

- (A)  Shear Modulus (Correct Answer)
- (B)  Viscosity constant
- (C)  Relative Viscosity
- (D)  Coefficient of Tension

**Question No.28**

Which of the following are responsible for interconversion of phase changes of particles?

- (A)  Pressure and density
- (B)  Pressure and temperature (Correct Answer)
- (C)  Only temperature
- (D)  Only pressure

**Question No.29**

How many valence electrons are present in aluminium?

- (A)  5
- (B)  4
- (C)  1 (Chosen option)
- (D)  3 (Correct Answer)

**Question No.30**

What is the vector quantity pertaining to the condition at any point under a magnetic



influence measured by the force exerted in a vacuum upon a free unit north pole known as?

- (A)  Magnetic moment
- (B)  Magnetic susceptibility
- (C)  Magnetic permeability
- (D)  **Magnetic intensity (Correct Answer)**

#### Question No.31

Which one is deep rooted crop?

- (A)  Rice
- (B)  **Cotton (Correct Answer)** (Chosen option)
- (C)  Groundnut
- (D)  Onion

#### Question No.32

What is the magnitude of the magnetic moment of a short bar magnet placed with its axis at  $30^\circ$  with an uniform external magnetic field of 0.25 T that experiences a torque of magnitude 0.045 J?

- (A)  36 J/T
- (B)  **0.36 J/T (Correct Answer)**
- (C)  56 J/T
- (D)  0.56 J/T

#### Question No.33

The study which deals with ecology of plant communities is known as \_\_\_\_\_.

- (A)  Biotechnology
- (B)  **Synecology (Correct Answer)** (Chosen option)
- (C)  Ecosystem

(D)  Auto ecology

#### Question No.34

In the cyanide extraction process of silver from argentite ore, the oxidizing and reducing agents used are \_\_\_\_\_.

- (A)   $O_2$  and CO respectively
- (B)   $HNO_3$  and Zn dust respectively
- (C)   **$O_2$  and Zn dust respectively (Correct Answer)**
- (D)   $HNO_3$  and CO respectively

#### Question No.35

For producing the effective collisions the colliding molecules must have \_\_\_\_\_.

- (A)  energy equal to or greater than threshold energy
- (B)  a certain minimum amount of energy
- (C)  proper orientation
- (D)  **threshold energy and proper orientation both (Correct Answer)**

#### Question No.36

Which of the following compounds is formed when benzamide is warmed with bromine and alkali?

- (A)  Bromobenzene
- (B)  **Aniline (Correct Answer) (Chosen option)**
- (C)  Benzene
- (D)  Benzene diazonium chloride

#### Question No.37

When the pH of a solution decreases, its hydrogen ion concentration \_\_\_\_\_.

- (A)  decreases (Chosen option)
- (B)  may decrease or increase
- (C)  remains unchanged
- (D)  **increases (Correct Answer)**

**Question No.38**

What does the phenomenon of weightlessness mean?

- (A)  **Free-fall under zero gravity (Correct Answer)** (Chosen option)
- (B)  Feeling a small difference in weight
- (C)  Feeling tired
- (D)  Feeling heavy

**Question No.39**

What is the chemical formula of diamond?

- (A)  CHO
- (B)  COOH
- (C)  OH
- (D)  **C (Correct Answer)** (Chosen option)

**Question No.40**

The fault lines in the earth's crust possess large amount of \_\_\_\_\_.

- (A)  Kinetic energy (Chosen option)
- (B)  Mechanical energy
- (C)  **Potential energy (Correct Answer)**
- (D)  Surface energy

**Question No.41**

The yellow colour of tomato is due to the presence of \_\_\_\_\_ pigment.

- (A)  Lycopene
- (B)  Xanthophyll
- (C)  **Carotenoid (Correct Answer)**
- (D)  Anthocyanin

#### Question No.42

What is the infectious form of plasmodium in humans?

- (A)  Trophozoite
- (B)  Conidiozoite
- (C)  Parazoite (Chosen option)
- (D)  **Sporozoites (Correct Answer)**

#### Question No.43

Planting of crop with wider inter row and closer intra row spacing is known as \_\_\_\_\_.

- (A)  Square planting
- (B)  Triangular planting
- (C)  Multitier planting
- (D)  **Rectangular planting (Correct Answer)** (Chosen option)

#### Question No.44

Which quantity will be zero if the body starts from rest and travels for a distance?

- (A)  Final velocity
- (B)  **Initial Velocity (Correct Answer)** (Chosen option)
- (C)  Average Velocity
- (D)  Distance travelled

**Question No.45**

The chemical composition of slag formed during the smelting process in the extraction of copper is \_\_\_\_\_.

- (A)   $\text{Cu}_2\text{S} + \text{FeO}$
- (B)   $\text{CuFeS}_2$
- (C)   **$\text{FeSiO}_3$  (Correct Answer)**
- (D)   $\text{Cu}_2\text{O} + \text{FeS}$  (Chosen option)

**Question No.46**

As one moves down below the earth's surface towards the core, what happens to the acceleration due to gravity value?

- (A)  Increases drastically
- (B)  Increases (Chosen option)
- (C)  Does not change
- (D)  **Decreases (Correct Answer)**

**Question No.47**

Who proposed the use and disuse theory?

- (A)  Charles Darwin
- (B)  Frederick Winslow Taylor
- (C)  **Lamarck (Correct Answer)** (Chosen option)
- (D)  J.J Thomson

**Question No.48**

What is the technique which uses echoes of ultrasound pulses to detect objects or areas of different density in the body called?

- (A)  Echocardiography
- (B)  X Ray scanning
- (C)  Magnetic resonance imaging
- (D)  **Ultrasonography (Correct Answer)** (Chosen option)

**Question No.49**

The energy possessed by an object by virtue of its position or configuration is called \_\_\_\_\_.

- (A)  **Potential energy (Correct Answer)** (Chosen option)
- (B)  Spring energy
- (C)  Kinetic energy
- (D)  Surface energy

**Question No.50**

Which of the following is termed as Bases which are soluble in water?

- (A)  **Alkalis (Correct Answer)**
- (B)  Alkanes
- (C)  Aldehyde
- (D)  Alkynes

**Question No.51**

The intercrop suitable for sugarcane is \_\_\_\_\_.

- (A)  **Cowpea (Correct Answer)**
- (B)  Sorghum
- (C)  Cassava
- (D)  Castor

**Question No.52**

\_\_\_\_\_ is an automated and gated pipe system of surface irrigation.

- (A)  Fertigation
- (B)  **Cablegation (Correct Answer)**
- (C)  Border irrigation
- (D)  Flooding

#### Question No.53

Which among the following organisms has the size of about 0.02-0.2 micrometer?

- (A)  Pleuropneumonia Like Organisms
- (B)  Typical bacteria
- (C)  A typical eukaryotic cell
- (D)  **Viruses (Correct Answer)**

#### Question No.54

Which among the following organs is used by the fish to breathe?

- (A)  Heart
- (B)  Skin
- (C)  Lungs
- (D)  **Gills (Correct Answer) (Chosen option)**

#### Question No.55

The type of magnetism exhibited by  $C_6H_6$  is \_\_\_\_\_.

- (A)  Ferromagnetism
- (B)  Paramagnetism
- (C)  **Diamagnetism (Correct Answer)**
- (D)  Ferrimagnetism

**Question No.56**

What is the common name of acetylsalicylic acid?

- (A)  Baking Soda
- (B)  Cinnabar
- (C)  Washing Soda
- (D)  **Aspirin (Correct Answer)** (Chosen option)

**Question No.57**

The Vertical columns of Mendeleev's Periodic Table are known as \_\_\_\_\_.

- (A)  Crews
- (B)  Class
- (C)  Tables
- (D)  **Groups (Correct Answer)** (Chosen option)

**Question No.58**

Two forces which are equal and opposite in direction are called \_\_\_\_\_.

- (A)  **Balanced Forces (Correct Answer)** (Chosen option)
- (B)  Contact Forces
- (C)  Unbalanced Forces
- (D)  Tensor Forces

**Question No.59**

What is the statement of conservation of mass in flow of incompressible fluids called?

- (A)  Conservation of force
- (B)  Conservation of momentum
- (C)  **Equation of continuity (Correct Answer)**
- (D)  Conservation of energy



**Question No.60**

How many valence electrons are present in group 13 elements of modern periodic table?

- (A)  3 (Correct Answer)
- (B)  1
- (C)  4
- (D)  5 (Chosen option)

**Question No.61**

Which of the following is called 'Green Algae'?

- (A)  Phaeophyceae
- (B)  Rhodophyceae
- (C)  Chlorophyceae (Correct Answer) (Chosen option)
- (D)  Dinophyceae

**Question No.62**

In which "assisted reproductive technology", test-tube baby procedure is applied?

- (A)  Gamete intrafallopian transfer
- (B)  Zygote intrafallopian transfer
- (C)  Intracytoplasmic sperm injection
- (D)  In vitro fertilization and embryo transfer (Correct Answer) (Chosen option)

**Question No.63**

What does the area under the curve of a velocity - time graph over a given interval of time of a moving object represent?

- (A)  Retardation
- (B)  Acceleration (Chosen option)

- (C)  **Displacement (Correct Answer)**  
(D)  Distance

**Question No.64**

Which hormone is mainly involved in milk ejection?

- (A)  **Oxytocin (Correct Answer)** (Chosen option)  
(B)  Vasopressin  
(C)  Thyroxine  
(D)  Melatonin

**Question No.65**

A variety Neelam belongs to the fruit of \_\_\_\_\_.

- (A)  Lemon  
(B)  Guava  
(C)  Papaya  
(D)  **Mango (Correct Answer)** (Chosen option)

**Question No.66**

Who among the following scientists was the first to observe ribosomes under microscope?

- (A)  Singer  
(B)  Nicholson  
(C)  Flemming  
(D)  **George Palade (Correct Answer)** (Chosen option)

**Question No.67**

Huckel rule is \_\_\_\_\_.

- (A)   $(2n + 2)$  p electron  
(B)   $(4n + 2)$  p electron (Correct Answer)  
(C)   $(2n + 4)$  p electron  
(D)   $(4n + 4)$  p electron

**Question No.68**

The cubic close packed structure is also known as \_\_\_\_\_.

- (A)  Hexagonal Close Packed  
(B)  Simple Cubic  
(C)  Body Centred Cubic  
(D)  Face Centred Cubic (Correct Answer)

**Question No.69**

Aflatoxin contamination in ground nut is caused by \_\_\_\_\_.

- (A)  Penicillium sp  
(B)  Curvularia sp  
(C)  Fusarium sp  
(D)  Aspergillus sp. (Correct Answer)

**Question No.70**

The correct order of electron gain enthalpy with negative sign of F, Cl, Br and I, having atomic number 9, 17, 35 and 53 respectively, is \_\_\_\_\_.

- (A)   $Br > Cl > I > F$   
(B)   $F > Cl > Br > I$  (Chosen option)  
(C)   $Cl > F > Br > I$  (Correct Answer)  
(D)   $I > Br > Cl > F$

