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Selection Post Phase IX 2021 Graduate level

Roll Number	
Candidate Name	
Venue Name	
Exam Date	09/02/2022
Exam Time	3:00 PM - 4:00 PM
Subject	Selection Post Graduate Level

Section : **General Intelligence**

Q.1 'A @ B' means 'A is the sister of B'.
'A & B' means 'A is the brother of B'.
'A # B' means 'A is the wife of B'.
'A ^ B' means 'A is the mother of B'.
'A + B' means 'A is the father of B'.

If 'L ^ U @ R ^ P # J + N & D @ S', then which of the following statements is NOT correct?

Ans ✅ 1. U is the maternal grandmother of J.

❌ 2. L is the maternal grandmother of P.

❌ 3. R is the maternal grandmother of S.

❌ 4. D is the daughter of P.

Question ID : **65497839443**
Status : **Not Answered**
Chosen Option : **--**

Q.2 W is the son of D. C is the daughter of D's son. P's sister N is married to W. D is the husband of K. How is K related to C?

Ans ❌ 1. Paternal aunt

✅ 2. Paternal grandmother

❌ 3. Mother

❌ 4. Maternal grandmother

Question ID : **65497839739**
Status : **Not Answered**
Chosen Option : **--**

Q.3 Select the option that is related to the third term in the same way as the second term is related to the first term.

FREQUENT : RFSGUOFV :: NOMINATE : ?

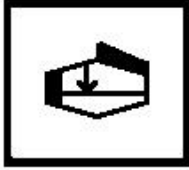**Ans** ❌ 1. JNQOFBUO

❌ 2. NJPOGUBO

✅ 3. JNPOFUBO

❌ 4. JNPOUFOB

Question ID : **65497839734**
Status : **Answered**
Chosen Option : **1**

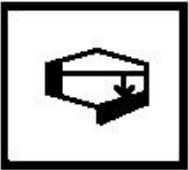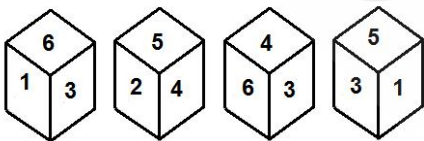**Q.4** Select the figure that will come next in the following series.

Ans

✔ 1.

✘ 2.

✘ 3.

✘ 4.

Q.5 Four different positions of the same dice are shown, the six faces of which are numbered from 1 to 6. Select the number that will be on the face opposite to the one having '1'.

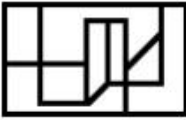**Ans** ✘ 1. 2

✘ 2. 3

✔ 3. 4

✘ 4. 5

Q.6 Select the option in which the given figure is embedded (rotation is NOT allowed).
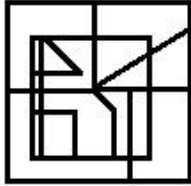

Ans

✗ 1.

✓ 2.

✗ 3.

✗ 4.

Question ID : **65497839655**
Status : **Answered**
Chosen Option : **2**

Q.7 In a certain code language, UNDER is coded as 61323229. How will FLORINA be coded in that language?

Ans ✓ 1. 2115129181326

✗ 2. 2112159161326

✗ 3. 2015129181426

✗ 4. 2015121891301

Question ID : **65497839539**
Status : **Answered**
Chosen Option : **2**

Q.8 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

a _ d _ _ b i k a c _ b a b _ k _ c _ b a _ i k

Ans ✗ 1. c b a i d a d b

✗ 2. c d a d i a d b

✗ 3. c b a d i a b d

✓ 4. c b a d i a d b

Question ID : **65497839441**
Status : **Answered**
Chosen Option : **3**

Q.9 Which two numbers (not digits) and two signs need to be interchanged to make the given equation correct?

240 ÷ 20 − 16 × 14 + 120 = 175

Ans ✗ 1. 240 and 120, ÷ and −

✗ 2. 14 and 16, + and −

✓ 3. 16 and 20, − and +

✗ 4. 240 and 16, ÷ and +

Question ID : **65497839448**
Status : **Answered**
Chosen Option : **2**

Q.10 In a certain code language, 'EMPTY' is written as AVROG and 'PUSH' is written as JUWR. How will 'ASPIRE' be written in that language?

Ans ✗ 1. GTKSUD

✗ 2. CTKURG

✗ 3. GTLRVC

✓ 4. GTKRUC

Question ID : **65497839435**
Status : **Answered**
Chosen Option : **4**

Q.11 Select the correct mirror image of the given combination when the mirror is placed at line PQ as shown.

Ans

✗ 1. ЯⴹＳꟼwbɟɘ

✓ 2. ЯⴑＺƏwqɟɘ

✗ 3. ЯＡＳƏwqɟɘ

✗ 4. ЯⴑＺƏwqɟɘ

Question ID : **65497839452**
Status : **Answered**
Chosen Option : **2**

Q.12 In a certain code language, 'JURY' is coded as 1397 and 'DOCK' is coded as 4632. How will 'FACTORIAL' be coded in that language?

Ans ✗ 1. 613368913

✗ 2. 614269912

✗ 3. 612368813

✓ 4. 613269913

Question ID : **65497839438**
Status : **Not Answered**
Chosen Option : **--**

Q.13 In a certain code language, 'he was invited' is written as 'nu vu du', 'she invited them' is written as 'hu du ru' and 'she was there' is written as 'tu vu ru'. How will 'there' be written in that language?

Ans ✗ 1. ru

✓ 2. tu

✗ 3. vu

✗ 4. du

Question ID : **65497839434**

Status : **Answered**

Chosen Option : **2**

Q.14 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.

RENAME : GTCPGO :: CLOSED : ?

Ans ✗ 1. NDVQFG

✗ 2. MEURFG

✗ 3. NEUQGH

✓ 4. NEUQFG

Question ID : **65497839633**

Status : **Not Answered**

Chosen Option : **--**

Q.15 Select the option that is related to the third word in the same way as the second word is related to the first word.

Colony : Ants : : Plumage : ?

Ans ✓ 1. Feathers

✗ 2. Bones

✗ 3. Animals

✗ 4. Bricks

Question ID : **65497839433**

Status : **Answered**

Chosen Option : **1**

Q.16 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
Some jugs are bottles.
No bottle is a candy.
All spoons are bottles.

Conclusions:
I. Some jugs are spoons.
II. No spoon is a candy.
III. No jug is a spoon.
IV. No jug is a candy.

Ans ✓ 1. Either Conclusion I or III and II follow.

✗ 2. Only Conclusions II and III follow.

✗ 3. Only Conclusions I, II and IV follow.

✗ 4. Either Conclusion I or IV and II follow.

Question ID : **65497839445**

Status : **Answered**

Chosen Option : **1**

Q.17 Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.

1. Eyes
2. Nose
3. Fingers
4. Hair
5. Bones

Ans ✗ 1. 2, 1, 3, 4, 5

✓ 2. 2, 1, 3, 5, 4

✗ 3. 3, 1, 2, 5, 4

✗ 4. 2, 1, 5, 4, 3

Question ID : **65497839634**
Status : **Answered**
Chosen Option : **1**

Q.18 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.

22 : 528 : : 24 : ? : : 25 : 675

Ans ✗ 1. 752

✗ 2. 480

✓ 3. 624

✗ 4. 521

Question ID : **65497839447**
Status : **Answered**
Chosen Option : **3**

Q.19 Select the option that is related to the third word in the same way as the second word is related to the first word.

Meditation : Peace :: Treatment : ?

Ans ✗ 1. Hospital

✗ 2. Disease

✗ 3. Doctor

✓ 4. Recovery

Question ID : **65497839636**
Status : **Answered**
Chosen Option : **4**

Q.20 In a certain code language, DEAF is coded as 4-10-3-24 and MAGIC is coded as 13-2-21-36-15. How will CLOSET be coded in that language?

Ans ✓ 1. 3-24-45-76-25-120

✗ 2. 3-24-30-76-25-120

✗ 3. 3-24-45-57-20-100

✗ 4. 3-12-45-76-20-120

Question ID : **65497839643**
Status : **Answered**
Chosen Option : **1**

Q.21 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.

T _ O _ M K _ H O G _ _ T H _ _ M K

Ans ✔ 1. H G T M K O G

✘ 2. H G K M K O G

✘ 3. H G T M K G O

✘ 4. H G H M K O G

Q.22 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Manicurist
2. Manipulator
3. Manifest
4. Manageable
5. Mandible
6. Manifesto
7. Mandate

Ans ✔ 1. 4, 7, 5, 1, 3, 6, 2

✘ 2. 4, 7, 5, 3, 1, 6, 2

✘ 3. 4, 7, 5, 1, 6, 3, 2

✘ 4. 4, 7, 1, 5, 3, 6, 2

Q.23 Select the number from among the given options that can replace the question mark (?) in the following series.

23, 25, 75, 79, 395, 401, ?

Ans ✘ 1. 1203

✘ 2. 408

✔ 3. 2807

✘ 4. 802

Q.24 In a certain code language, PRESENT is written as OQDHFOU and FORCE is written as ENIDF. How will DORMITORY be written in that language?

Ans ✔ 1. CNQLRUPSZ

✘ 2. CNQNQUPSZ

✘ 3. CNLQRPUSZ

✘ 4. UPSZRCNQL

Q.25 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
All woods are chairs.
All chairs are benches.
All plastics are woods.

Conclusions:
I. All woods are benches.
II. All plastics are chairs.
III. No bench is a plastic.

Ans ✗ 1. Only conclusion I follows.

✓ 2. Only conclusions I and II follow.

✗ 3. Only conclusions I and III follow.

✗ 4. Only conclusion II follows.

Question ID : **65497839546**
Status : **Answered**
Chosen Option : **2**

Section : **English Language**

Q.1 Select the option that can be used as a one-word substitute for the given group of words.

An original model from which later forms are developed

Ans ✗ 1. Ancestor

✗ 2. Manuscript

✓ 3. Prototype

✗ 4. Descendent

Question ID : **65497839466**
Status : **Answered**
Chosen Option : **3**

Q.2 Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

At present, the examination system in India are characterised with heterogeneity.

Ans ✗ 1. has characterised with

✗ 2. No improvement required

✗ 3. are characteristic by

✓ 4. is characterised by

Question ID : **65497839458**
Status : **Answered**
Chosen Option : **4**

Q.3 Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

We <u>yet have time for catching</u> the flight.

Ans ✔ 1. still have time to catch

✘ 2. have yet time to catch

✘ 3. No improvement required

✘ 4. have time still for catching

Question ID : **65497839561**
Status : **Answered**
Chosen Option : **1**

Q.4 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

She was thinking / of marrying Sanjay / when she discovered / he has already married.

Ans ✘ 1. of marrying Sanjay

✘ 2. She was thinking

✘ 3. when she discovered

✔ 4. he has already married

Question ID : **65497839657**
Status : **Answered**
Chosen Option : **4**

Q.5 Select the option that expresses the given sentence in direct speech.

My supplier told me that he could see sincerity in my eyes.

Ans ✘ 1. My supplier said to me, "I could see sincerity in my eyes."

✘ 2. My supplier said to me, "He can see sincerity in my eyes."

✔ 3. My supplier said to me, "I can see sincerity in your eyes."

✘ 4. My supplier said to me, "I could see sincerity in his eyes."

Question ID : **65497839660**
Status : **Answered**
Chosen Option : **3**

Q.6 Select the most appropriate synonym of the given word.

Mitigate

Ans ✘ 1. Aggravate

✔ 2. Alleviate

✘ 3. Incite

✘ 4. Intensify

Question ID : **65497839667**
Status : **Answered**
Chosen Option : **2**

Q.7 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. She was busy with preparations for lunch when Bryan walked in.
B. Lucy went straight to the kitchen on getting back home.
C. Lucy gave him a quick, slightly preoccupied glance.
D. "Can I give you a hand in any way?" he asked Lucy.

Ans ✗ 1. CDAB

✗ 2. BDCA

✗ 3. CBDA

✓ 4. BADC

Question ID : **65497839666**
Status : **Answered**
Chosen Option : **4**

Q.8 Select the most appropriate meaning of the given idiom.

To draw a blank

Ans ✗ 1. To forget someone close

✗ 2. To win a lottery

✓ 3. To get no results

✗ 4. To become unconscious

Question ID : **65497839465**
Status : **Answered**
Chosen Option : **4**

Q.9 Select the INCORECTLY spelt word.

Ans ✓ 1. Maintainence

✗ 2. Motivate

✗ 3. Occasion

✗ 4. Tendency

Question ID : **65497839569**
Status : **Answered**
Chosen Option : **1**

Q.10 Select the most appropriate ANTONYM of the given word.

Equanimity

Ans ✓ 1. Agitation

✗ 2. Assurance

✗ 3. Serenity

✗ 4. Calmness

Question ID : **65497839464**
Status : **Answered**
Chosen Option : **1**

Q.11 Select the option that expresses the given sentence in passive voice.

The audience was making fun of the speaker.

Ans ✔ 1. The speaker was being made fun of by the audience.

✖ 2. The speaker was made fun of by the audience.

✖ 3. The speaker is being made fun of by the audience.

✖ 4. The speaker has been made fun of by the audience.

Question ID : **65497839455**
Status : **Answered**
Chosen Option : **1**

Q.12 Select the most appropriate option to fill in the blank.

We will have to atone _____ our misdeeds.

Ans ✖ 1. from

✖ 2. in

✖ 3. on

✔ 4. for

Question ID : **65497839461**
Status : **Answered**
Chosen Option : **4**

Q.13 Select the option that expresses the given sentence in passive voice.

She sings songs in several languages.

Ans ✔ 1. Songs in several languages are sung by her.

✖ 2. Songs in several languages are being sung by her.

✖ 3. Songs in several languages have been sung by her.

✖ 4. Songs in several languages were sung by her.

Question ID : **65497839556**
Status : **Answered**
Chosen Option : **1**

Q.14 Select the option that expresses the given sentence in indirect speech.

The teacher said to the students, "Can you distinguish between these two words?"

Ans ✖ 1. The teacher asked the students if they can distinguish between these two words.

✔ 2. The teacher asked the students if they could distinguish between those two words.

✖ 3. The teacher asked the students that if they could distinguish between these two words.

✖ 4. The teacher asked the students could they distinguish between those two words.

Question ID : **65497839457**
Status : **Answered**
Chosen Option : **2**

Q.15 Select the most appropriate option to fill in the blank.

If I _____ you, I would take the feedback positively.

Ans ✗ 1. is

✗ 2. was

✓ 3. were

✗ 4. am

Comprehension:

Read the given passage and answer the questions that follow.

According to legend, ancient Rome was founded by the two brothers, and demigods Romulus and Remus on 21 April 753 BCE. The legend claims that in an argument over who would rule the city (or, in another version, where the city would be located) Romulus killed Remus and named the city after himself. This story of the founding of Rome is the best known but it is not the only one.

Other legends claim the city was named after a woman, Roma who travelled with Aeneas and the other survivors from Troy after that city fell. Upon landing on the banks of the Tiber River, Roma and the other women objected when the men wanted to move on. She led the women in the burning of the Trojan ships and so effectively stranded the Trojan survivors at the site which would eventually become Rome. Aeneas of Troy is featured in this legend and also, famously, in Virgil's Aeneid, as a founder of Rome and the ancestor of Romulus and Remus, thus linking Rome with the grandeur and might which was once Troy.

Still other theories concerning the name of the famous city suggest it came from Rumon, the ancient name for the Tiber River, and was simply a name given to the small trading centre established on its banks or that the name was derived from an Etruscan word, which could have designated one of their settlements.

Originally a small town on the banks of the Tiber, Rome grew in size and strength, early on, through trade. The location of the city provided merchants with an easily navigable waterway on which to traffic their goods. The city was ruled by seven kings, from Romulus to Tarquin, as it grew in size and power. Greek culture and civilisation, which came to Rome via Greek colonies to the south, provided the early Romans with a model on which to build their own culture. From the Greeks they borrowed literacy and religion as well as the fundamentals of architecture.

The Etruscans, to the north, provided a model for trade and urban luxury. Etruria was also well situated for trade and the early Romans either learned the skills of trade from Etruscan example or were taught directly by the Etruscans who made incursions into the area around Rome sometime between 650 and 600 BCE (although their influence was felt much earlier). The extent of the role the Etruscan civilisation played in the development of Roman culture and society is debated but there seems little doubt they had a significant impact at an early stage.

SubQuestion No : 16

Q.16 According to legend, what did Roma do to stop the Trojan men at the banks of the Tiber?

Ans ✓ 1. She burnt the trojan ships.

✗ 2. She established a trading centre.

✗ 3. She destroyed the city of Troy.

✗ 4. She declared herself as the ruler.

Comprehension:

Read the given passage and answer the questions that follow.

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SubQuestion No : 17

Q.17 Who among the following is NOT believed to be one of the founders of Rome?

Ans ✗ 1. Romulus

✔ 2. Tarquin

✗ 3. Remus

✗ 4. Aeneas

Comprehension:

Read the given passage and answer the questions that follow.

According to legend, ancient Rome was founded by the two brothers, and demigods Romulus and Remus on 21 April 753 BCE. The legend claims that in an argument over who would rule the city (or, in another version, where the city would be located) Romulus killed Remus and named the city after himself. This story of the founding of Rome is the best known but it is not the only one.

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SubQuestion No : 18

Q.18 Rome mainly grew and flourished because of:

Ans ✗ 1. Architecture

✔ 2. Trade

✗ 3. Culture

✗ 4. Religion

Comprehension:

Read the given passage and answer the questions that follow.

According to legend, ancient Rome was founded by the two brothers, and demigods Romulus and Remus on 21 April 753 BCE. The legend claims that in an argument over who would rule the city (or, in another version, where the city would be located) Romulus killed Remus and named the city after himself. This story of the founding of Rome is the best known but it is not the only one.

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SubQuestion No : 19

Q.19 Etruscans taught the early Romans:

Ans ✗ 1. Literacy and religion

✗ 2. The fundamentals of architecture

✗ 3. How to build waterways

✓ 4. The skills of trade

Question ID : **65497839580**
Status : **Answered**
Chosen Option : **4**

Comprehension:

Read the given passage and answer the questions that follow.

According to legend, ancient Rome was founded by the two brothers, and demigods Romulus and Remus on 21 April 753 BCE. The legend claims that in an argument over who would rule the city (or, in another version, where the city would be located) Romulus killed Remus and named the city after himself. This story of the founding of Rome is the best known but it is not the only one.

Other legends claim the city was named after a woman, Roma who travelled with Aeneas and the other survivors from Troy after that city fell. Upon landing on the banks of the Tiber River, Roma and the other women objected when the men wanted to move on. She led the women in the burning of the Trojan ships and so effectively stranded the Trojan survivors at the site which would eventually become Rome. Aeneas of Troy is featured in this legend and also, famously, in Virgil's Aeneid, as a founder of Rome and the ancestor of Romulus and Remus, thus linking Rome with the grandeur and might which was once Troy.

Still other theories concerning the name of the famous city suggest it came from Rumon, the ancient name for the Tiber River, and was simply a name given to the small trading centre established on its banks or that the name was derived from an Etruscan word, which could have designated one of their settlements.

Originally a small town on the banks of the Tiber, Rome grew in size and strength, early on, through trade. The location of the city provided merchants with an easily navigable waterway on which to traffic their goods. The city was ruled by seven kings, from Romulus to Tarquin, as it grew in size and power. Greek culture and civilisation, which came to Rome via Greek colonies to the south, provided the early Romans with a model on which to build their own culture. From the Greeks they borrowed literacy and religion as well as the fundamentals of architecture.

The Etruscans, to the north, provided a model for trade and urban luxury. Etruria was also well situated for trade and the early Romans either learned the skills of trade from Etruscan example or were taught directly by the Etruscans who made incursions into the area around Rome sometime between 650 and 600 BCE (although their influence was felt much earlier). The extent of the role the Etruscan civilisation played in the development of Roman culture and society is debated but there seems little doubt they had a significant impact at an early stage.

SubQuestion No : 20

Q.20 The passage is mainly about:

Ans ✗ 1. The merging of Greek and Roman civilisations

✗ 2. The grandeur and fall of Troy

✗ 3. River Tiber, the lifeline of Rome

✔ 4. The founding of Rome and early influences

Question ID : **65497839581**
Status : **Answered**
Chosen Option : **4**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Concerned and responsible Indian citizens can encourage sensible consumption (1)_____. This can be done by shopping less and wasting (2)_____ lesser; by buying local products to keep the cottage industries and (3)_____ crafts alive. In essence, by valuing their rich (4)_____ and living simple and meaningful lives, Indians can set (5)_____ and show the West that India is much more than a well of business opportunities.

SubQuestion No : 21

Q.21 Select the most appropriate option to fill in blank no.1.

Ans ✗ 1. decorum

✗ 2. delivery

✗ 3. presence

✔ 4. behaviour

Question ID : **65497839673**
Status : **Answered**
Chosen Option : **4**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Concerned and responsible Indian citizens can encourage sensible consumption (1)_____. This can be done by shopping less and wasting (2)_____ lesser; by buying local products to keep the cottage industries and (3)_____ crafts alive. In essence, by valuing their rich (4)_____ and living simple and meaningful lives, Indians can set (5)_____ and show the West that India is much more than a well of business opportunities.

SubQuestion No : 22

Q.22 **Select the most appropriate option to fill in blank no.2.**

Ans ✔️ 1. even

✖️ 2. further

✖️ 3. rather

✖️ 4. quite

Question ID : **65497839674**
Status : **Answered**
Chosen Option : **1**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Concerned and responsible Indian citizens can encourage sensible consumption (1)_____. This can be done by shopping less and wasting (2)_____ lesser; by buying local products to keep the cottage industries and (3)_____ crafts alive. In essence, by valuing their rich (4)_____ and living simple and meaningful lives, Indians can set (5)_____ and show the West that India is much more than a well of business opportunities.

SubQuestion No : 23

Q.23 **Select the most appropriate option to fill in blank no.3.**

Ans ✖️ 1. habitual

✖️ 2. sanctioned

✔️ 3. traditional

✖️ 4. prescribed

Question ID : **65497839675**
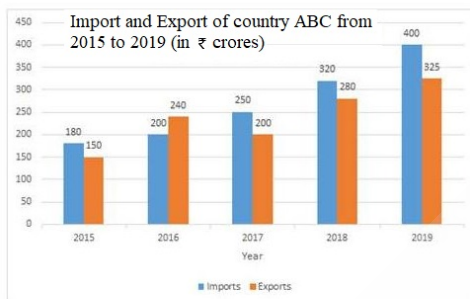Status : **Answered**
Chosen Option : **3**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Concerned and responsible Indian citizens can encourage sensible consumption (1)_____. This can be done by shopping less and wasting (2)_____ lesser; by buying local products to keep the cottage industries and (3)_____ crafts alive. In essence, by valuing their rich (4)_____ and living simple and meaningful lives, Indians can set (5)_____ and show the West that India is much more than a well of business opportunities.

SubQuestion No : 24

Q.24 **Select the most appropriate option to fill in blank no.4.**

Ans ✖️ 1. birthright

✖️ 2. estate

✔️ 3. heritage

✖️ 4. settlement

Question ID : **65497839676**
Status : **Answered**
Chosen Option : **3**

Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Concerned and responsible Indian citizens can encourage sensible consumption (1)_____. This can be done by shopping less and wasting (2)_____ lesser; by buying local products to keep the cottage industries and (3)_____ crafts alive. In essence, by valuing their rich (4)_____ and living simple and meaningful lives, Indians can set (5)_____ and show the West that India is much more than a well of business opportunities.

SubQuestion No : 25

Q.25 Select the most appropriate option to fill in blank no.5.

Ans ✗ 1. an incentive

   ✗ 2. a citation

   ✗ 3. an instance

   ✔ 4. a precedent

Section : **Quantitative Aptitude**

Q.1 Study the given graph and answer the question that follows.

Import and Export of country ABC from 2015 to 2019 (in ₹ crores)

In 2020, if the imports increased from 2019 by the same percentage as in 2019 over its previous year, then what were the amount of imports (in ₹ crores) in 2020?

Ans ✗ 1. 450

   ✗ 2. 480

   ✔ 3. 500

   ✗ 4. 420

Q.2 The area of a triangular park, whose sides are 160 m, 300 m and 340 m, is $4\frac{17}{22}$ of the area of a circular park. What is the perimeter (in m) of the circular park (correct to one decimal place)? (Take $\pi = \frac{22}{7}$)

Ans ✗ 1. 253.2

   ✗ 2. 248.8

   ✔ 3. 251.4

   ✗ 4. 240.2

Q.3 If $2x - \frac{1}{x} = 7$, $x \neq 0$, then what is the value of $\frac{8x^6 + 5x^3 - 1}{8x^6 - 25x^3 - 1}$?

Ans
✗ 1. $\frac{39}{37}$

✗ 2. $\frac{19}{18}$

✗ 3. $-\frac{1}{5}$

✓ 4. $\frac{13}{12}$

Q.4 If the 8-digit number $98x423y4$ is divisible by 72, then what is the value of $(5x + 3y - xy)$, for the maximum value of y ?

Ans
✗ 1. 6

✗ 2. 9

✓ 3. 3

✗ 4. 5

Q.5 The value of $\frac{\tan^2(22° - \theta) - \tan(\theta + 68°) - \csc^2(68° + \theta) + \cot(22° - \theta)}{3(\cot^2 52° - \sec^2 38°) + 2(\csc^2 28° - \tan^2 62°)}$ is:
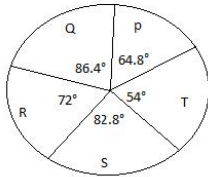
Ans
✗ 1. 0

✗ 2. −1

✓ 3. 1

✗ 4. $\frac{1}{5}$

Q.6 The lengths of two trains are 380 m and 220 m. The faster of these two trains takes 20 seconds to overtake the other, when travelling in same direction. The trains take 12 seconds to cross each other, when travelling in opposite directions. What is the speed (in km/h) of the faster train?

Ans
✓ 1. 144

✗ 2. 90

✗ 3. 126

✗ 4. 108

Q.7 Study the given pie chart and answer the question that follows.

The pie chart shows the distribution (degree-wise) of the students who appeared in the annual examination from institutes P, Q, R, S and T in 2020. The total number of students who appeared is 3000.

The number of students who appeared in the examination from institute P is what per cent of the total number of students who appeared from the institutes Q, R and S (correct to one decimal place)?

Ans ✖ 1. 27.2

✔ 2. 26.9

✖ 3. 25.8

✖ 4. 26.4

Question ID : **65497839707**
Status : **Answered**
Chosen Option : **2**

Q.8 The cost price of a shirt is ₹1,008. At what price should it be marked so that after allowing 16% discount on the marked price, there is a profit of 18%?

Ans ✔ 1. ₹1,416

✖ 2. ₹1,452

✖ 3. ₹1,512

✖ 4. ₹1,351

Question ID : **65497839688**
Status : **Answered**
Chosen Option : **1**

Q.9 If $a + \frac{1}{a+1} = 3$, then what is the value of $(a+1)^3 + \frac{1}{(a+1)^3}$?

Ans ✖ 1. 8

✔ 2. 52

✖ 3. 2

✖ 4. 62

Question ID : **65497839699**
Status : **Answered**
Chosen Option : **2**

Q.10 The income of X is 42% more than that of Y and the income of Z is 45% less than the sum of the incomes of X and Y. By what per cent is the income of Z less than the income of X (correct to one decimal place)?

Ans ✖ 1. 5.9%

✖ 2. 6.7%

✔ 3. 6.3%

✖ 4. 5.6%

Question ID : **65497839689**
Status : **Answered**
Chosen Option : **3**

Q.11 The average weight of some boys in a group is 45 kg. If 10 boys with an average weight of 39 kg join the group or 10 boys with an average weight of 49 kg leave the group, then the average weight of boys in both cases is equal. How many boys were there in the group initially?

Ans ✔ 1. 50

✗ 2. 60

✗ 3. 40

✗ 4. 30

Question ID : **65497839483**

Status : **Not Answered**

Chosen Option : **--**

Q.12 If $2x - \frac{1}{x} = 3, x \neq 0$, then simplify $8x^6 - 25x^3 - 1$.

Ans ✔ 1. $20x^3$

✗ 2. $18x^3$

✗ 3. $27x^3$

✗ 4. $34x^3$

Question ID : **65497839751**

Status : **Answered**

Chosen Option : **1**

Q.13 The average of 52 numbers is 48.5. The average of the first 22 numbers is 59.8 and that of the last 32 numbers is 41.7. If the 21st and 22nd numbers are excluded, then what is the average of the remaining numbers?

Ans ✔ 1. 47.88

✗ 2. 46.48

✗ 3. 51

✗ 4. 53

Question ID : **65497839482**

Status : **Answered**

Chosen Option : **4**

Q.14 What is the compound interest (in ₹) on a sum of ₹25,000 for $3\frac{2}{5}$ years at 10% p.a., if the interest is compounded annually?

Ans ✔ 1. 9,606

✗ 2. 9,516

✗ 3. 8,275

✗ 4. 8,425

Question ID : **65497839593**

Status : **Answered**

Chosen Option : **1**

Q.15 By selling an article at $66\frac{2}{3}\%$ of the actual selling price, a loss of 25% is incurred. What is the profit percentage on selling the article at its actual selling price?

Ans ✗ 1. 10.5%

✗ 2. 15%

✗ 3. 10%

✓ 4. 12.5%

Q.16 Alloys A and B contain copper and zinc in the ratio 7 : 8 and 4 : 1, respectively. In what ratio should A and B be mixed to obtain a new alloy C containing copper and zinc in the ratio 2 : 1?

Ans ✗ 1. 4 : 5

✗ 2. 5 : 6

✓ 3. 2 : 3

✗ 4. 3 : 4

Q.17 If $14 \sin^2 \theta + 3 \sin \theta - 5 = 0$, $0° < \theta < 90°$, then the value of $\frac{\sec 2\theta + \cot 2\theta}{\csc 2\theta + \tan 2\theta}$ is:

Ans ✗ 1. $\frac{3\sqrt{3}-1}{3}$

✗ 2. $\frac{2\sqrt{3}+1}{3}$

✗ 3. $\frac{2(1+\sqrt{3})}{5}$

✓ 4. $\frac{1+2\sqrt{3}}{5}$

Q.18 In $\triangle ABC$, $\angle B = 135°$, $AB = 5\sqrt{2}$ cm and $BC = 7$ cm. The length of AC is:

Ans ✗ 1. $12\sqrt{2}$ cm

✗ 2. 12 cm

✗ 3. $3\sqrt{11}$ cm

✓ 4. 13 cm

Q.19 X and Y together can complete a piece of work in 20 days, while Y and Z together can complete it in 24 days. After X worked on it for 10 days and Y for 18 days, Z alone completed the remaining work in another 13 days. X and Z together can complete 75% of the original in:

Ans

✗ 1. 12 days

✔ 2. 10 days

✗ 3. 9 days

✗ 4. 8 days

Q.20 A sum of ₹7,410 is divided between A, B and C such that the ratio of the share of A to the combined share of B and C is 9 : 17 and the ratio of the share of C to the combined share of A and B is 5 : 8. What is the ratio of the shares of B and C?

Ans

✗ 1. 13 : 17

✔ 2. 7 : 10

✗ 3. 8 : 9

✗ 4. 9 : 10

Q.21 The cost price of articles X and Y is the same. Article X is sold at 20% profit and article Y is sold for ₹126 less than the selling price of X. If the net profit by selling both the articles is 14%, then what is the cost price (in ₹) of each article?
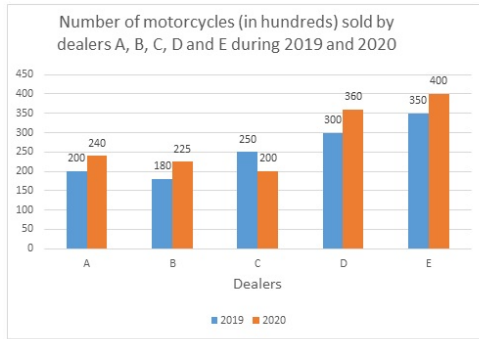
Ans

✗ 1. 1,080

✗ 2. 840

✔ 3. 1,050

✗ 4. 1,260

Q.22 Study the given graph and answer the question that follows.

Number of motorcycles (in hundreds) sold by dealers A, B, C, D and E during 2019 and 2020

The number of motorcycles sold by dealer D in 2020 is what percentage more than the number of motorcycles sold by dealer C in 2019?

Ans ✔ 1. 44%

✘ 2. 33.3%

✘ 3. 30.5%

✘ 4. 48%

Q.23 In an institute, 35% are boys and the rest are girls. If 30% of the boys failed and 60% of the girls passed in an examination, then the percentage of the students who failed in the examination is:

Ans ✔ 1. 36.5%

✘ 2. 35.5%

✘ 3. 40%

✘ 4. 35%

Q.24 In ∆ABC, the bisector of ∠B meets side AC at D. If AB = 16 cm, BC = 9.6 cm and AC = 22.4 cm, then what is the length (in cm) of AD?

Ans ✘ 1. 8.4

✔ 2. 14

✘ 3. 9.4

✘ 4. 15

Q.25 The 6-digit number 439xy5 is divisible by 125. How many such 6-digit numbers are there?

Ans ✘ 1. 5

✘ 2. 2

✔ 3. 4

✘ 4. 3

Section : **General awareness**

Q.1 The Ain-I-Akbari is made up of _____ books.

Ans ✔ 1. five

✘ 2. seven

✘ 3. eight

✘ 4. six

Question ID : **65497839622**
Status : **Answered**
Chosen Option : **2**

Q.2 Which of the following states does NOT share its border with Myanmar?

Ans ✘ 1. Mizoram

✔ 2. Assam

✘ 3. Manipur

✘ 4. Arunachal Pradesh

Question ID : **65497839722**
Status : **Answered**
Chosen Option : **4**

Q.3 With reference to the Sukanya Samriddhi Account Scheme, which of the following statements is INCORRECT?

Ans ✘ 1. The scheme was launched in January 2015.

✔ 2. The scheme account can be opened with a minimum of ₹100.

✘ 3. The scheme was launched as a part of the 'Beti Bachao Beti Padhao' campaign.

✘ 4. The account can be opened in any post office or authorised branches of commercial banks.

Question ID : **65497839611**
Status : **Answered**
Chosen Option : **2**

Q.4 What was the result of the T20I series (March 2021) between India and England Men's cricket team?

Ans ✘ 1. England won 4-1

✔ 2. India won 3-2

✘ 3. India won 4-1

✘ 4. England won 3-2

Question ID : **65497839631**
Status : **Answered**
Chosen Option : **3**

Q.5 The Pradhan Mantri Yuva Udyamita Vikas Abhiyan Yojana (PM-YUVA) is the initiative of Ministry of:

Ans ✘ 1. Science and Technology

✘ 2. Corporate Affairs

✔ 3. Skill Development and Entrepreneurship

✘ 4. Commerce and Industry

Question ID : **65497839508**
Status : **Answered**
Chosen Option : **3**

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Q.6 According to the Census of 2011, which of the following is the third most populated urban agglomeration?

Ans ✗ 1. Delhi

✔ 2. Kolkata

✗ 3. Mumbai

✗ 4. Chennai

Q.7 Which river is known as the 'Sorrow of Bihar'?

Ans ✔ 1. Kosi

✗ 2. Punpun

✗ 3. Son

✗ 4. Damodar

Q.8 26 November was formally declared as the Constitution Day on _____.

Ans ✔ 1. 19 November 2015

✗ 2. 19 November 1949

✗ 3. 26 November 1949

✗ 4. 31 October 2015

Q.9 The Universities of Calcutta, Bombay and Madras were set up in _____.

Ans ✗ 1. 1859

✔ 2. 1857

✗ 3. 1863

✗ 4. 1861

Q.10 Alexander the Great defeated Porus in the Battle of _____.

Ans ✔ 1. Hydaspes

✗ 2. Peshawar

✗ 3. Pathankot

✗ 4. Arakan

Q.11 Which Amendment Act (2017) of the Constitution contains the provisions necessary for the GST Regime?

Ans
  ✗ 1. 103rd
  ✗ 2. 100th
  ✗ 3. 102nd
  ✓ 4. 101st

Question ID : **65497839527**
Status : **Answered**
Chosen Option : **4**

Q.12 _____ of the Indian Constitution contains the Fundamental Duties.

Ans
  ✗ 1. Part VI A
  ✗ 2. Part V
  ✓ 3. Part IV A
  ✗ 4. Part III

Question ID : **65497839732**
Status : **Answered**
Chosen Option : **3**

Q.13 _____ is a famous dance form of Jammu and Kashmir.

Ans
  ✗ 1. Dhemsa
  ✗ 2. Bidesia
  ✗ 3. Karma
  ✓ 4. Dumhal

Question ID : **65497839607**
Status : **Answered**
Chosen Option : **3**

Q.14 Bhanu _____ is a festival dedicated to the worship of the Sun God.

Ans
  ✓ 1. Saptami
  ✗ 2. Ashtami
  ✗ 3. Navami
  ✗ 4. Ekadashi

Question ID : **65497839506**
Status : **Answered**
Chosen Option : **3**

Q.15 In which of the following places did the Indian National Congress hold its session in September 1920?

Ans
  ✗ 1. Poona
  ✗ 2. Nagpur
  ✓ 3. Calcutta
  ✗ 4. Bombay

Question ID : **65497839726**
Status : **Not Answered**
Chosen Option : **--**

Q.16 Which of the following is NOT a disease caused by bacteria?

Ans
✗ 1. Dysentery

✗ 2. Diphtheria

✓ 3. Malaria

✗ 4. Plague

Question ID : **65497839514**
Status : **Answered**
Chosen Option : **3**

Q.17 For which of the following media is the absolute refractive index almost equal to one?

Ans
✗ 1. Water

✓ 2. Air

✗ 3. Ice

✗ 4. Kerosene

Question ID : **65497839715**
Status : **Answered**
Chosen Option : **1**

Q.18 According to the Central Pollution Control Board of India, particulate sizes of diameter _____ micrometres are responsible for causing the greatest harm to human health.

Ans
✗ 1. between 2.5 and 3.5

✗ 2. between 3.5 and 4.5

✗ 3. between 4.5 and 5.5

✓ 4. equal to or less than 2.5

Question ID : **65497839615**
Status : **Answered**
Chosen Option : **4**

Q.19 Any land which is left fallow (uncultivated) for more than _____ years is under the category of Culturable Wasteland.

Ans
✗ 1. seven

✓ 2. five

✗ 3. nine

✗ 4. ten

Question ID : **65497839516**
Status : **Not Answered**
Chosen Option : **--**

Q.20 In May 2021, the Indian Navy launched Operation Samudra Setu-II by deploying _____ naval ships.

Ans
✗ 1. 9

✗ 2. 10

✗ 3. 6

✓ 4. 7

Question ID : **65497839714**
Status : **Answered**
Chosen Option : **4**

Q.21 Gaumukh Kund is a reservoir located in which of the following forts?

Ans ✔️ 1. Chittorgarh

❌ 2. Gwalior

❌ 3. Datia

❌ 4. Kumbhalgarh

Question ID : **65497839507**
Status : **Not Answered**
Chosen Option : **--**

Q.22 Who is the author of the novel 'A Passage to India'?

Ans ❌ 1. Chetan Bhagat

❌ 2. Amitav Ghosh

❌ 3. APJ Abdul Kalam

✔️ 4. EM Forster

Question ID : **65497839727**
Status : **Answered**
Chosen Option : **4**

Q.23 Arunima Sinha was the first _____ female to scale Mount Everest.

Ans ❌ 1. hearing impaired female

❌ 2. visually impaired female

❌ 3. female haemophilic

✔️ 4. female amputee

Question ID : **65497839626**
Status : **Answered**
Chosen Option : **4**

Q.24 The Bihari Puraskar is one of the three literary awards instituted by the _____ in 1991.

Ans ❌ 1. Infosys Foundation

✔️ 2. KK Birla Foundation

❌ 3. Wipro Foundation

❌ 4. Pirojsha Godrej Foundation

Question ID : **65497839525**
Status : **Answered**
Chosen Option : **2**

Q.25 Which of the following does NOT figure among the Five Kingdom Classification proposed by RH Whittaker (1969)?

Ans ❌ 1. Monera

❌ 2. Protista

✔️ 3. Euglena

❌ 4. Plantae

Question ID : **65497839512**
Status : **Answered**
Chosen Option : **3**